

Document Control No. 4400-03-ACJH

Revision 1

APPENDICES A AND B

REMEDIAL INVESTIGATION REPORT

**ABC ONE-HOUR DRY CLEANERS
JACKSONVILLE, NORTH CAROLINA**

November 1992

10098573



REGION IV

Work Assignment No. 03-419E

U.S. EPA Contract No. 68-W9-0057

**Roy F. Weston, Inc.
1880-H Beaver Ridge Circle
Norcross, Georgia 30071**

WESTON W.O. No. 04400-003-021-0071-00

Document Control No. 4400-03-ACJH

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Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix A
Revision: 1
Date: November 1992

APPENDIX A
DRILLING LOGS

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Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix A
Revision: 1
Date: November 1992

SOIL BORING LOGS

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 18.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-01	DRILLING COMPANY :
NORTHING : 2442.0000	DRILLING RIG : MOBILE B-57
EASTING : 1253.0000	DATE STARTED : 06/26/91
ELEVATION : 31.920	DATE COMPLETED : 06/26/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1			SAND and GRAVEL	LIGHT BROWNISH	SFT	DMP	18 10 6	OVA 10.0	
29	2		74	SAND and CLAY, tr GRAVEL	LIGHT BROWNISH	FRM	MST	5 4 6	OVA 9.0	THIS MATERIAL IS MOSTLY SAND AND CLAY WITH X-BEDDING AND IS MOTTLED - IN COLOR.
28	3									
27	4		76	SAND, sm CLAY, sm GRAVEL, - tr ORGANIC	LIGHT GRAY	FRM	MST	4 5 6	OVA 105.0	THE SOIL WAS GRAY TO YELLOW WITH CLAY.
26	5									
25	6		76	SAND, sm CLAY	WHITE OLIVE GRA	FRM	MST	3 4 11	OVA 50.0	
24	7									
23	8		81	SAND, lt CLAY	LIGHT GRAY	SFT	MST	7 11 15	OVA 100.0	CONTACT BETWEEN THE CLAY AND SAND WAS AT 8.3 FEET.
22	9									
21	10		89	SAND, lt CLAY, tr GRAVEL	LIGHT GRAY	FRM	MST	4 5 6	OVA 25.0	
20	11									
19	12		90	SAND, lt CLAY, tr GRAVEL	LIGHT GRAY	SFT	MSR	4 9 20	OVA	
18	13									
17	14		91	SAND, sm CLAY	LIGHT GRAY	SFT	MST	5 10 9	OVA 650.0	
16	15									
15	16		88	SAND, lt SILT	LIGHT GRAY	SFT	DMP	2 4 6	OVA 15.0	
14	17		88	SAND and CLAY	LIGHT GRAY	FRM	MST	2 3 8	OVA 15.0	
13	18									
12	19									
11	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 18.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-02	DRILLING COMPANY :
NORTHING : 2498.0000	DRILLING RIG : MOBILE B-57
EASTING : 1259.0000	DATE STARTED : 06/26/91
ELEVATION : 32.000	DATE COMPLETED : 06/26/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			SAND, sm CLAY, tr GRAVEL	L. YELLOWISH BR	LSE	DMP	12	OVA 240.0	TOP OF SAMPLE HAD SOME GRAVEL AND RED BRICK IN IT.
30	2		76	SAND and CLAY, tr GRAVEL, - tr ORGANIC	DARK GRAY	SFT	DMP	14	OVA 320.0	1745 COLLECTED SAMPLE FROM 2-4 FEET.
29	3							14		
28	4		68	CLAY and SAND	VERY PALE BROWN	FRM	MST	14	OVA 700.0	
27	5							14		
26	6		81	SAND, sm CLAY, tr GRAVEL, - tr SILT	LIGHT GRAY	SFT	MST	3	OVA 980.0	
25	7							8		
24	8		88	SAND and CLAY, tr SILT, tr GRAVEL	GRAYISH BROWN	FRM	MST	4	OVA 1000.0	
23	9							4		
22	10		90	SAND, sm CLAY, tr GRAVEL	LIGHT GRAY	SFT	MST	3	OVA 700.0	
21	11							3		
20	12		90	CLAY and SAND, tr GRAVEL	LIGHT GRAY	FRM	MST	2	OVA 100.0	
19	13							4		
18	14		93	SAND, sm CLAY	LIGHT GRAY	SFT	WET	2	OVA 200.0	
17	15							3		
16	16		99	SAND, sm CLAY	LIGHT GRAY	SFT	WET	2	OVA 1000.0	
15	17							1		
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 18.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-03	DRILLING COMPANY :
NORTHING : 2549.0000	DRILLING RIG : MOBILE B-57
EASTING : 1316.0000	DATE STARTED : 06/27/91
ELEVATION : 32.000	DATE COMPLETED : 06/27/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1									
30	2			Interval Not Classified				1	OVA 550.0	THE FIRST FOOT OF PENETRATION WAS WITH 1 BLOW, NO SOIL WAS IN TUBE.
29	3							2		
28	4		76	SAND and CLAY	LIGHT GRAY	FRM	MST	1	OVA 550.0	
27	5							2		
26	6		80	SAND and CLAY	LIGHT GRAY	FRM	MST	2	OVA 100.0	
25	7							4		
24	8		82	SAND, lt CLAY	GRAY	SFT	DMP	2	OVA 450.0	
23	9							3		
22	10		87	SAND, sm CLAY	GRAY	FRM	MST	2	OVA	
21	11							4		
20	12		88	SAND, sm CLAY	L BROWNISH GRAY	SFT	MST	2	OVA 700.0	
19	13							4		
18	14		88	SAND, lt CLAY	GRAY	SFT	WET	2	OVA 150.0	
17	15							6		
16	16		90	SAND, sm CLAY	GRAY	SFT	WET	3	OVA 15.0	
15	17							4		
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT	: ABC ONE-HOUR CLEANERS	TOTAL DEPTH	: 18.00
SITE NAME	: ABC ONE-HOUR CLEANERS	LOGGER	:
WELL ID	: SB-04	DRILLING COMPANY	:
NORTHING	: 2553.0000	DRILLING RIG	: MOBILE B-57
EASTING	: 1298.0000	DATE STARTED	: 06/27/91
ELEVATION	: 31.750	DATE COMPLETED	: 06/27/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1									
29	2		95	Interval Not Classified				1200	OVA 0.2	THE SAMPLE HAD A HUNK OF - RED TERRACOTA TILE THAT MAY HAVE BEEN PART OF AN - OLD LEACH FIELD.
28	3									
27	4		75	SAND, lt CLAY, tr SILT	DARK GRAY	SFT	MST		OVA	
26	5									
25	6		77	SAND, lt CLAY, tr SILT	GRAY	SFT	MST	3500	OVA	12:00 SAMPLE COLLECTED.
24	7									
23	8		82	SAND, sm CLAY	GRAY	SFT	MST	2300	OVA 8.0	
22	9									
21	10		85	SAND, sm CLAY	GRAY	SFT	MST	3500	OVA 14.0	
20	11									
19	12		86	SAND, sm CLAY	GRAY	SFT	MST	2500	OVA 1.0	
18	13									
17	14		88	SAND, sm CLAY	GRAY	FRM	MST	2500	OVA 110.0	
			88	SAND, tr CLAY	L. OLIVE GRAY	SFT	WET	2500	OVA 110.0	
16	15		88	SAND, sm CLAY	GRAY	SFT	MST	2500	OVA 110.0	
15	16		94	SAND, sm CLAY	GRAY	FRM	DMP	2500	OVA 110.0	
				SAND, sm CLAY	GRAY	FRM	WET	2500	OVA	
14	17									
13	18									
12	19									
11	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 16.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-05	DRILLING COMPANY :
NORTHING : 2363.0000	DRILLING RIG : MOBILE B-57
EASTING : 1276.0000	DATE STARTED : 06/27/91
ELEVATION : 32.170	DATE COMPLETED : 06/27/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			SAND, lt CLAY		SFT	DMP	4 5 6	OVA 0.6	DRILLED THROUGH ASPHALT DRIVE & BEGAN CONTINUOUS SAMPLING. REMOVED SAMPLE FROM HOLE AT 1750.
30	2		71	GRAVEL, sm SAND	DARK GRAY	LSE	DMP	3 4 5	OVA	ROAD GRAVEL AND FILL FOR DRIVEWAY.
29	3									
28	4		78	SAND, sm CLAY	L BROWNISH GRAY	SFT	MST	3 4 5	OVA 10.0	
27	5									
26	6		76	SAND, lt CLAY	LIGHT GRAY	SFT	MST	2 3 4	OVA	
25	7									
24	8		88	SAND, sm CLAY	LIGHT GRAY	SFT	MST	2 3 4	OVA 0.2	(1713) TIME SAMPLE TAKEN FROM HOLE.
23	9									
22	10		90	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	2 3 4	OVA 5.0	SOME LAMINATION
21	11									
20	12		97	SAND, sm CLAY	LIGHT GRAY	SFT	MST	3 4 5	OVA 60.0	
19	13									
18	14		93	SAND, sm CLAY	LIGHT GRAY	SFT	WET	1 2 3	OVA 1.0	
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 16.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-06	DRILLING COMPANY :
NORTHING : 2366.0000	DRILLING RIG : MOBILE B-57
EASTING : 1258.0000	DATE STARTED : 06/27/91
ELEVATION : 32.000	DATE COMPLETED : 06/27/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			SAND	GRAYISH BROWN	LSE	DMP	2	OVA 110.0	
30	2		90	SAND, sm CLAY	GRAYISH BROWN	SFT	DMP	4	OVA 340.0	SAMPLE FELL 1.5 FT WOOD -
29	3									BEING BITT ROOTS STICKING
28	4		90	ORGANIC, lt GRAVEL	GRAYISH BROWN	LSE	DMP	4	OVA 150.0	SAMPLE SMELLS LIKE A CAROLINA
27	5									PINE FOREST. THERE WAS A LARGE HUNK OF PINE -
26	6		86	SAND, sm CLAY, tr ORGANIC, tr GRAVEL	LIGHT GRAY	SFT	DMP	4	OVA 60.0	ROOT IN SAMPLE.
25	7									
24	8		91	SAND, sm CLAY, tr ORGANIC	L BROWNISH GRAY	SFT	DMP	3	OVA 400.0	SAMPLE HAS PIECES OF PINE -
23	9									ROOT. PINE ROOT ODOR.
22	10		84	SAND, sm CLAY	LIGHT GRAY	FRM	DMP	2	OVA 30.0	
21	11									
20	12		93	SAND, sm CLAY, tr ORGANIC	LIGHT GRAY	SFT	MST	3	OVA 120.0	ROOT PIECES IN SAMPLE PROBABLY
19	13									CAME FROM CUTTINGS THAT FELL IN
18	14		93	SAND, lt CLAY	BROWNISH YELLOW	SFT	WET	5	OVA 20.0	HOLE WHILE ADVANCING THE AUGER.
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 16.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-07	DRILLING COMPANY :
NORTHING : 2662.0000	DRILLING RIG : MOBILE B-57
EASTING : 1328.0000	DATE STARTED : 06/28/91
ELEVATION : 32.000	DATE COMPLETED : 06/28/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			SAND, tr CLAY, tr ORGANIC	DK OLIVE BROWN	LSE	DMP	7 8 4	OVA 700.0	REMOVED SAMPLE FROM HOLE - AT 1010.
30	2		66	SAND, lt CLAY, tr ORGANIC	DARK GRAY	SFT	DMP	2 3 5	OVA 16.0	
29	3									
28	4		80	SAND, lt CLAY	LIGHT GRAY	SFT	DMP	3 5 8	OVA 15.0	A 6" ZONE BETWEEN 4.2 AND-4.8 LOOKED STAINED AND HAD A READING ON HNU (VERY DARK BROWN 10YR 3/1)
27	5									
26	6		76	SAND, lt CLAY	LIGHT GRAY	SFT	DMP	3 5 4	OVA	
25	7									
24	8		86	SAND, sm CLAY	GRAY	SFT	DMP	3 4 5 6	OVA 3.0	
23	9									
22	10		86	SAND, sm CLAY	L GRAY TO YELLO	SFT	MST	2 4 5	OVA 3.0	MOTTLED CLAY AND SAND (10-YR 7/8 YELLOW TO 10YR 7/1 LIGHT GRAY)
21	11									
20	12		91	SAND, lt CLAY	LIGHT GRAY	SFT	WET	2 3 6	OVA 18.0	
19	13									
18	14		92	SAND, lt CLAY	GRAY	SFT	WET	2 3 6	OVA 10.0	4 PPM WITH OVA IN THE HOLE, 0 WITH HNU
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 14.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-08	DRILLING COMPANY :
NORTHING : 2709.0000	DRILLING RIG : MOBILE B-57
EASTING : 1348.0000	DATE STARTED : 06/28/91
ELEVATION : 32.000	DATE COMPLETED : 06/28/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			SAND, sm CLAY	BROWN	FRM	DMP	6	OVA	
30	2		50	SAND, sm CLAY	LIGHT GRAY	FRM	DMP	2	OVA	
29	3							6		
28	4		75	SAND, lt CLAY	VERY PALE BROWN	SFT	DMP	2	OVA	
27	5							6		
26	6		88	SAND, sm CLAY	LIGHT GRAY	FRM	DMP	2	OVA	
25	7		75	SAND, lt CLAY	L YELLOWISH BRO	SFT	DMP	2	OVA 1.2	
24	8							6		
23	9		81	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	2	OVA 450.0	
22	10							5		
21	11		83	SAND, sm CLAY	LIGHT GRAY	SFT	WET	2	OVA	
20	12			Interval Not Classified				4		
19	13							4		DRILLER DID NOT PUT POCCKET IN SAMPLE AND SAMPLE FELL OUT.
18	14									
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 16.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-09	DRILLING COMPANY :
NORTHING : -130.0000	DRILLING RIG : MOBILE B-57
EASTING : 1325.0000	DATE STARTED : 06/29/91
ELEVATION : 20.000	DATE COMPLETED : 06/29/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
19 - 1				SAND, tr CLAY, tr ORGANIC	BROWN	LSE	DMP	200	OVA 400.0	ROOTS WERE IN THE SOIL.
18 - 2			50	SAND, lt CLAY	VERY PALE YELLO	LSE	DMP	100	OVA	
17 - 3			50	SAND, sm CLAY	YELLOWISH BROWN	SFT	DMP	100	OVA	
16 - 4			78	SAND, sm CLAY	STRONG BROWN	SFT	DMP	100	OVA 500.0	SHOWS SOME FE (IRON) STAINING.
15 - 5										
14 - 6			83	SAND, sm CLAY	STRONG BROWN	SFT	DMP	310	OVA 5.0	
13 - 7										
12 - 8			83	SAND, tr CLAY	REDDISH YELLOW	LSE	DMP	310	OVA 5.0	SAMPLE HAD VERY LITTLE CLAY IN IT. CLAY AND SAND LITHOLOGY AT 7.5 FEET (UPPER CONTACT - SHP).
			89	SAND, tr CLAY	LIGHT GRAY	LSE	DMP	100	OVA 0.5	
11 - 9										
10 - 10			90	SAND, tr CLAY	LIGHT GRAY	LSE	WET	200	OVA 100.0	
9 - 11										
8 - 12										
7 - 13			85	SAND, sm CLAY	VERY PALE BROWN	SFT	WET	300	OVA 34.0	SAND FROM 12 TO 13 FEET. - SANDY CLAY FROM 13 TO 14 FEET.
6 - 14			87	SAND, sm CLAY	VERY PALE BROWN	SFT	WET	100	OVA 62.0	
5 - 15										
4 - 16										
3 - 17										
2 - 18										
1 - 19										
0 - 20										

Borehole Log

ROY F. WESTON, Inc.

CLIENT	: ABC ONE-HOUR CLEANERS	TOTAL DEPTH	: 18.00
SITE NAME	: ABC ONE-HOUR CLEANERS	LOGGER	:
WELL ID	: SB-10	DRILLING COMPANY	:
NORTHING	: 2425.0000	DRILLING RIG	: MOBILE B-57
EASTING	: 1312.0000	DATE STARTED	: 06/30/91
ELEVATION	: 33.000	DATE COMPLETED	: 06/30/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
32	1			SAND, sm CLAY	VERY PALE BROWN	SFT	DMP	8-6-10	OVA 300.0	SAMPLE WAS COLLECTED UNDER ASPHALT DRIVEWAY BETWEEN MAJORS FURNITURE - AND ABC CLEANERS.
31	2		68	SAND, sm CLAY, lt GRAVEL	VERY PALE BROWN	LSE	DMP	4	OVA 60.0	
30	3							3		
29	4		70	SAND, lt CLAY	LIGHT GRAY	SFT	DMP	1-1-2	OVA 450.0	ODOR WAS A PERK SMELL.
28	5									
27	6		85	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	2-4-4	OVA 200.0	
26	7									
25	8		80	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	2-4-4	OVA 78.0	
24	9									
23	10		83	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	3-3-6	OVA 50.0	ODOR WAS A SWEET SMELL. - SANDY CLAY IS THE SAME AS 8 TO 10 FEET.
22	11									
21	12		88	SAND, lt CLAY	VERY PALE BROWN	LSE	MST	2-5-5	OVA 500.0	CHANGE IN LITHOLOGY, BUT - DEPTH IS UNKNOWN. - RST CHANGE IS 13 FEET.
20	13									
19	14		89	SAND, sm CLAY	LIGHT GRAY	SFT	WET	2	OVA 300.0	THERE IS A CHANGE IN LITHOLOGY, BUT THE EXACT DEPTH IS UNKNOWN.
18	15									
17	16		89	SAND, tr CLAY	YELLOW	LSE	WET	1	OVA 300.0	
16	17		91	SAND, tr CLAY	LIGHT GRAY	LSE	WET	1	OVA 50.0	ALL SAND.
15	18									
14	19									
13	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC ONE-HOUR CLEANERS	TOTAL DEPTH : 18.00
SITE NAME : ABC ONE-HOUR CLEANERS	LOGGER :
WELL ID : SB-12	DRILLING COMPANY :
NORTHING : 2490.0000	DRILLING RIG : MOBILE B-57
EASTING : 1329.0000	DATE STARTED : 06/30/91
ELEVATION : 33.050	DATE COMPLETED : 06/30/91

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
32	1			SAND, sm CLAY, tr GRAVEL	DARK GRAY	LSE	DMP	12	OVA 44.0	SAMPLE COLLECTED UNDER ASPHALT DRIVEWAY.
31	2		66	SAND, sm CLAY	L BROWNISH GRAY	SFT	MST	4	OVA 100.0	
30	3							2		
29	4		68	SAND, sm CLAY	LIGHT GRAY	SFT	MST	1	OVA 30.0	HNU BROKE AND COULD NOT BE USED.
28	5							5		
27	6		75	SAND, sm CLAY, lt SILT, tr GRAVEL	GRAY	SFT	DMP	5	OVA 100.0	SOME MARINE SHELLS WERE MIXED IN WITH THE SAND AND CLAY.
26	7							6		
25	8		86	SAND, sm CLAY	LIGHT GRAY	SFT	DMP	2	OVA 65.0	
24	9							2		
23	10		86	SAND, sm CLAY	LIGHT GRAY	SFT	MST	2	OVA 45.0	
22	11							0		
21	12		7	SAND, sm CLAY	LIGHT GRAY	SFT	MST	2	OVA 75.0	
20	13							6		
19	14		89	SAND, lt CLAY	LIGHT	SFT	MST	3	OVA 380.0	
18	15							6		
17	16		91	SAND, lt CLAY	LIGHT GRAY	FRM	SAT	2	OVA 40.0	
16	17							9		
15	18									
14	19									
13	20									

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Remedial Investigation Report
ABC One-Hour Cleaners, Inc
Jacksonville, Onslow County, North Carolina
Section Appendix A
Revision 1
Date November 1992

MONITOR WELL LOGS

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 28.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : S-1	DRILLING COMPANY : MC CALL BROTHERS, INC
NORTHING : 1084.0000 estimated	DRILLING RIG : MOBILE DRILL B57
EASTING : 31.0000 estimated	DATE STARTED : 03/22/92
ELEVATION : 30.580 surveyed	DATE COMPLETED : 03/22/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
9	21			SAND, lt SILT, tr GRAVEL	10 YR 8/2	SFT	WET		HNU 0.0	Black fine grained mineral about 3%.
8	22		100	SAND, tr SILT	10 YR 8/2	FRM	SAT	5 7 12	HNU 0.0	White.
7	23									
6	24		75	SAND, lt SILT SAND	2.5 Y 8/2 10 YR 7/2	FRM SFT	MST SAT	5 10 11 7	HNU 0.0 HNU 0.0	White, finer than above light gray.
5	25									
4	26		100	No Sample Recovered SAND	10 YR 7/2	SFT	SAT	5 10	PID 0.0	Light gray.
3	27			SAND, lt SILT, tr CLAY	10 YR 7/2	SFT	SAT	11 5	PID 0.0	Some lenses of iron staining; light gray.
2	28			SAND, tr GRAVEL, tr SILT	10 YR 6/8	SFT	SAT		PID 0.0	Brownish yellow due to iron staining.
1	29									
0	30									
0	31									
-1	32									
-2	33									
-3	34									
-4	35									
-5	36									
-6	37									
-7	38									
-8	39									
-9	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
29	1			Interval Not Sampled						See MW-S-1 for lithologic log from 0 to 28 feet.
28	2									
27	3									
26	4									
25	5									
24	6									
23	7									
22	8									
21	9									
20	10									
19	11									
18	12									
17	13									
16	14									
15	15									
14	16									
13	17									
12	18									
11	19									
10	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
9 - 21				Interval Not Sampled						See MW-S-1 for lithologic log from 0 to 28 feet.
8 - 22										
7 - 23										
6 - 24										
5 - 25										
4 - 26										
3 - 27										
2 - 28			100	SAND, lt SILT, tr CLAY	5 Y 7/2	LSE	SAT	2	PID 0.0	Clay was biotite.
1 - 29										
0 - 30			100	SAND, sm SILT	2.5 Y 6/3	LSE	WET	3	PID 0.0	
0 - 31										
-1 - 32			100	SAND, lt SILT	2.5 Y 7/3	LSE	SAT	6	PID 0.0	
-2 - 33										
-3 - 34			100	SAND, lt SILT	2.5 Y 7/3	LSE	SAT	5	PID 0.0	
-4 - 35										
-5 - 36			100	SAND, tr SILT	2.5 Y 7/2	LSE	SAT	12	PID 0.0	
-6 - 37										
-7 - 38			100	SAND, tr SILT, tr GRAVEL	2.5 Y 7/2	LSE	SAT	11	PID 0.0	Gravel is rounded quartz.
-8 - 39										
-9 - 40			100	SAND, tr SILT	10 YR 7/2	SFT	SAT	4	PID 0.0	Light gray.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-10	41			SAND, tr SILT	10 YR 7/2	SFT	SAT		PID 0.0	Light gray.
-11	42			SAND, tr GRAVEL, tr SILT	2.5 Y 5/2	NA	NA		PID 0.0	Grayish brown mostly fine sand, tr. amethyst grains (c. sand-f. gravel-f. grained black mineral).
-12	43									
-13	44									
-14	45			SAND, tr GRAVEL, tr SILT	2.5 Y 6/2	NA	NA		PID 0.0	Light brownish gray. Trace amethyst and trace black mineral as above.
-15	46									
-16	47									
-17	48									
-18	49									
-19	50			SAND, tr GRAVEL, tr SILT	2.5 Y 6/2	NA	NA		PID 0.0	Light brownish gray, trace amethyst and trace black fine grained mineral.
-20	51									
-21	52									
-22	53									
-23	54									
-24	55			SAND, tr GRAVEL, tr SILT	2.5 Y 6/2	NA	NA		PID 0.0	Light brownish gray, same as above.
-25	56									
-26	57									
-27	58									
-28	59									
-29	60			SAND, sm SILT, tr CLAY, tr ORGANIC, tr GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Trace carbon charcoal, light brownish gray.

Borehole Log

ROY F. WESTON, Inc.

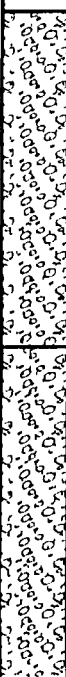

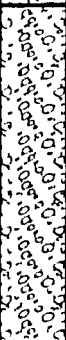
CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-30	61			SAND, sm SILT, tr CLAY, tr ORGANIC, tr GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Trace carbon charcoal, light brownish gray.
-31	62									
-32	63									
-33	64									
-34	65			SAND, sm SILT, tr CLAY, tr ORGANIC, tr GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Light brownish gray trace charcoal.
-35	66									
-36	67									
-37	68			SAND and SILT, tr CLAY, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray. Hit a soft layer at 68 feet. Trace charcoal, trace black mineral.
-38	69									
-39	70			SAND, tr GRAVEL, tr SILT	2.5 Y 6/2	NA	NA		PID 0.0	Light brownish gray, trace shell fragments, amethyst, black mineral. 79.6 hit hard layer (6").
-40	71									
-41	72									
-42	73									
-43	74									
-44	75			SAND, lt SILT, tr CLAY	2.5 Y 6/3	LSE	NA		PID 0.0	Light yellowish brown.
-45	76									
-46	77									
-47	78									
-48	79									
-49	80			SAND, lt GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Lt. brownish gray, little shells, sea urchine spines, rock frag include bionictrete and sparrycalc

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-50	81			SAND, lt GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Lt. brownish gray, little shells, sea urchine spines, rock frag include bionifrete and sparrycalt
-51	82									
-52	83									
-53	84									
-54	85			SAND, sm GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	87-88.5' hit a hard layer Lt. brownish gray ~10% qtz gravel, sub ang rock frags as above; bionifrete
-55	86									
-56	87									
-57	88									
-58	89									
-59	90			SAND, sm GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Same as above, light brownish gray.
-60	91									
-61	92									
-62	93									
-63	94									
-64	95			SAND, sm GRAVEL	2.5 Y 6/2	NA	NA		PID 0.0	Lt. brownish gray, coarsening downward, ~10% quartz (ang) shell frags including Bráyozoa.
-65	96									
-66	97									
-67	98									
-68	99									
-69	100			SILT and SAND, tr CLAY	5 Y 5/1	NA	NA		PID 0.0	Soft drilling between 100-104', mud viscosity increased, c. grains. Spoon hung on ledge.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 104.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-1	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1065.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 2800.0000 estimated	DATE STARTED : 04/02/92
ELEVATION : 30.600 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-70	101			SILT and SAND, tr CLAY	5 Y 5/1	NA	NA		PID 0.0	Soft drilling between 100-104', mud viscosity increased, c. grains. Spoon hung on ledge.
-71	102									
-72	103									
-73	104									
-74	105									
-75	106									
-76	107									
-77	108									
-78	109									
-79	110									
-80	111									
-81	112									
-82	113									
-83	114									
-84	115									
-85	116									
-86	117									
-87	118									
-88	119									
-89	120									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 87.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : C-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1355.0000 estimated	DRILLING RIG : INGERSOLL RAND T3W
EASTING : 2470.0000 estimated	DATE STARTED : 04/07/92
ELEVATION : 32.020 surveyed	DATE COMPLETED : 04/08/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			Not Classified - Incomplete Data						See lithologic log for MW-S-2 for 0-40 feet.
30	2									
29	3									
28	4									
27	5									
26	6									
25	7									
24	8									
23	9									
22	10									
21	11									
20	12									
19	13									
18	14									
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 87.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : C-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1355.0000 estimated	DRILLING RIG : INGERSOLL RAND T3W
EASTING : 2470.0000 estimated	DATE STARTED : 04/07/92
ELEVATION : 32.020 surveyed	DATE COMPLETED : 04/08/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
11	21			Not Classified - Incomplete Data						See lithologic log for MW-S-2 for 0-40 feet.
10	22									
9	23									
8	24									
7	25									
6	26									
5	27									
4	28									
3	29									
2	30									
1	31									
0	32									
0	33									
-1	34									
-2	35									
-3	36									
-4	37									
-5	38									
-6	39									
-7	40			SAND	7.5 YR 7/1	NA	NA	PID 0.0		Light gray very clean quartz sand - mostly coarse. Can't tell the fines for the mud.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 87.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : C-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1355.0000 estimated	DRILLING RIG : INGERSOLL RAND T3W
EASTING : 2470.0000 estimated	DATE STARTED : 04/07/92
ELEVATION : 32.020 surveyed	DATE COMPLETED : 04/08/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-8	41			SAND	7.5 YR 7/1	NA	NA		PID 0.0	Light gray very clean quartz sand - mostly coarse. Can't tell the fines for the mud.
-9	42									
-10	43									
-11	44									
-12	45			SAND	7.5 YR 7/1	NA	NA		PID 0.0	
-13	46									
-14	47									
-15	48									
-16	49									
-17	50			SAND	10 YR 7/1	NA	NA		PID 0.0	Light gray, trace amethyst grains.
-18	51									
-19	52									
-20	53									
-21	54									
-22	55			SAND	10 YR 7/1	NA	NA		PID 0.0	Light gray, clean quartz sand, mostly medium grained with trace amethyst grains.
-23	56									
-24	57									
-25	58									
-26	59									
-27	60			SILY and SAND	5 Y 5/3	NA	NA		PID 0.0	Brownish yellow silty fine sand, lense above olive sandy silt layer.

Borehole Log

ROY F. WESTON, Inc.


CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 87.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : C-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1355.0000 estimated	DRILLING RIG : INGERSOLL RAND T3W
EASTING : 2470.0000 estimated	DATE STARTED : 04/07/92
ELEVATION : 32.020 surveyed	DATE COMPLETED : 04/08/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-28	61			SILT and SAND	5 Y 5/3	NA	NA		PID 0.0	Brownish yellow silty fine sand lense above olive sandy silt layer.
-29	62									
-30	63									
-31	64									
-32	65			SILT and SAND	5 Y 5/3	NA	NA		PID 0.0	Drilling mud changed to olive then to gray again at -69' where rock frags started coming out.
-33	66									
-34	67									
-35	68									
-36	69			SAND, lt GRAVEL	5 Y 6/1	NA	NA		PID 0.0	Starting to get some limey sand, biomicrite, w/sparry calcite, tr. shell frags, qtz, cementd
-37	70			SAND and GRAVEL	5 Y 6/1	NA	NA		PID 0.0	Limestone frags (dolitic l.s. w/secondary sparry calcite cement). Gray, tr. shell frgs.
-38	71									
-39	72									
-40	73									
-41	74									
-42	75			SAND, lt GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Shell layer, gray, micrite w/secondary sparry calcite cementation, ~40% shells, sea urchin, qtz.
-43	76									
-44	77									
-45	78									
-46	79									
-47	80			SAND, lt GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Gray, micrite rock frags as above. Less shell frags and qtz, larger rock frags.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 87.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : C-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1355.0000 estimated	DRILLING RIG : INGERSOLL RAND T3W
EASTING : 2470.0000 estimated	DATE STARTED : 04/07/92
ELEVATION : 32.020 surveyed	DATE COMPLETED : 04/08/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-48	81			SAND, lt GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Gray, micrite rock frags as above. Less shell frags and Qtz, larger rock frags.
-49	82									
-50	83									
-51	84									
-52	85			SAND, lt GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Gray biomicrite w/sparry calcite, tr. shell frags, quartz.
-53	86									
-54	87			Limestone	5 Y 7/2	STR				Hit a hard lense at 87'. biomicrite w/rounded chert pebbles, light gray.
-55	88									
-56	89									
-57	90									
-58	91									
-59	92									
-60	93									
-61	94									
-62	95									
-63	96									
-64	97									
-65	98									
-66	99									
-67	100									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 90.50
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-3	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2005.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1995.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 33.400 surveyed	DATE COMPLETED : 04/09/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
32	1			SAND, sm CLAY, sm SILT	10 YR 6/2	SFT	DMP		PID 0.0	
31	2									
30	3									
29	4									
28	5		20	SAND, sm CLAY, sm SILT	2.5 Y 6/2	SFT	MST		PID 0.0	
27	6									
26	7									
25	8									
24	9									
23	10		70	SAND, sm SILT	2.5 YR N4/	SFT	SAT		PID 0.0	
22	11			CLAY, sm SAND, sm SILT	2.5 TY N/6	SFT	WET		PID 0.0	
21	12									
20	13									
19	14									
18	15		50	SAND	10 YR 7/2	LSE	DMP		PID 0.0	
17	16									
16	17									
15	18									
14	19									
13	20		60	SAND, sm SILT	5 Y 6/1	SFT	MST		PID 0.0	

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 90.50
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-3	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2005.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1995.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 33.400 surveyed	DATE COMPLETED : 04/09/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
12	21			SAND, sm SILT	5 Y 6/1	SFT	MST		PID 0.0	
				SAND	5 Y 6/1	LSE	SAT		PID 0.0	
11	22									
10	23									
9	24									
8	25		60	SAND	5 Y 6/1	LSE	SAT		PID 0.0	Crew adds water to auger to prevent sand from entering augers.
7	26									
6	27									
5	28									
4	29									
3	30			No Sample Recovered						First attempt lost sample because augers caught cts. Second attempt no recovery.
2	31									
1	32									
0	33									
0	34									
-1	35			No Sample Recovered					PID 0.0	
-2	36									
-3	37									
-4	38									
-5	39									
-6	40			SAND		LSE	SAT		PID 0.0	These descriptions are from P700 rotary cuttings

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 90.50
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-3	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2005.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1995.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 33.400 surveyed	DATE COMPLETED : 04/09/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-7	41			SAND		LSE	SAT		PID 0.0	These descriptions are from P700 rotary cuttings
-8	42									
-9	43									
-10	44									
-11	45			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.
-12	46									
-13	47									
-14	48									
-15	49									
-16	50			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.
-17	51									
-18	52									
-19	53									
-20	54									
-21	55			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.
-22	56									
-23	57									
-24	58									
-25	59									
-26	60			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.

Borehole Log

ROY F. WESTON, Inc.

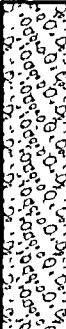
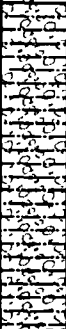

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 90.50
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-3	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2005.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1995.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 33.400 surveyed	DATE COMPLETED : 04/09/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-27	61			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.
-28	62									
-29	63									
-30	64									
-31	65			SAND		LSE	SAT		PID 0.0	Mud rotary cuttings.
-32	66									
-33	67									
-34	68									
-35	69									
-36	70			GRAVEL, sm SAND	5 Y 6/1	NA	NA		PID 0.0	Light gray, dolitic limestone frags w/fossils (shells, sea urchin spines, sparry calcite).
-37	71									
-38	72									
-39	73									
-40	74									
-41	75			GRAVEL, sm SAND	5 Y 6/1	STF	NA		PID 0.0	Lt gray, biomicrite w/ sparry calcite cement, tr sub rounded qtz sand, f: gravel-f. black mineral.
-42	76									
-43	77									
-44	78									
-45	79									
-46	80			GRAVEL, sm SAND	5 Y 6/1	NA	NA		PID 0.0	Same as above 80-84'. At 85' becomes more cemented med. sized gravel coming out ang. sparry calcite.

Borehole Log

ROY F. WESTON, Inc.

CLIENT	: ABC DRY CLEANERS	TOTAL DEPTH	: 90.50
SITE NAME	: ABC DRY CLEANERS	LOGGER	: J. BRASWELL
WELL ID	: C-3	DRILLING COMPANY	: MC CALL BROTHERS, INC.
NORTHING	: 2005.0000 estimated	DRILLING RIG	: SPEEDSTAR STARDRILL 300
EASTING	: 1995.0000 estimated	DATE STARTED	: 03/19/92
ELEVATION	: 33.400 surveyed	DATE COMPLETED	: 04/09/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-47	81			GRAVEL, sm SAND	5 Y 6/1	NA	NA		PID 0.0	Same as above 80-84'. At 85' becomes more cemented med. sized gravel coming out ang. sparry calcite.
-48	82									
-49	83									
-50	84									
-51	85			GRAVEL, sm SILTY, lt SAND	5 Y 7/2	STF	NA		PID 0.0	Light gray biomicrite w/ sparry calcite secondary cement, contains black mineral.
-52	86									
-53	87									
-54	88									
-55	89									
-56	90			Limestone	5 Y 7/2	STR			PID 0.0	Light gray biomicrite w/ some sand.
-57	91									
-58	92									
-59	93									
-60	94									
-61	95									
-62	96									
-63	97									
-64	98									
-65	99									
-66	100									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1		60	SAND, lt SILT	2.5 Y 6/4	SFT	DMP		PID 0.0	8.5" hole made by 4.5 O.D. HSA.
30	2									
29	3									
28	4									
27	5		60	CLAY and SAND	2.5 Y 6/2	SFT	MST		PID 0.0	
26	6									
25	7									
24	8		100	CLAY	7.5 yr 5/1	SFT	DMP		PID 0.0	Clay layers with inter-bedded sandy clays which are saturated.
23	9			CLAY and SAND	7.5 YR 6/1	SFT	SAT		PID 0.0	
22	10									
21	11									
20	12		100	CLAY	7.5 YR 6/1	SFT	SAT		PID 0.0	Silty sand fully saturated. Water entry at 16 feet.
19	13			CLAY and SAND	7.5 YR 6/1	SFT	SAT		PID 0.0	
18	14									
17	15									
16	16		100	SAND, sm SILT	7.5 YRN 5	LSE	SAT		PID 0.0	Silty sand fully saturated. Water entry at 16 feet.
15	17			CLAY and SAND	7.5 YR 6/1	SFT	SAT		PID 0.0	
14	18									
13	19									
12	20		60	SAND, sm SILT	7.5 YRN 5/	LSE	SAT		PID 0.0	

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
11	21			SAND, sm SILT	7.5 YRN 5/	LSE	SAT		PID 0.0	
				SAND, lt CLAY	10 YR 6/8	LSE	SAT		PID 0.0	
10	22									
9	23									
8	24									
7	25		40	SAND	10 YR 7/2	LSE	SAT		PID 0.0	
6	26									
5	27									
4	28									
3	29									
2	30			SAND, sm CLAY, lt SILT	5 Y 7/2	LSE	SAT		PID 0.0	Second attempt, first try got stuck - wedged with no recovery.
1	31									
0	32									
0	33									
-1	34									
-2	35		80	SAND	5 Y 5/1	LSE	SAT		PID 0.0	10% coarse sand, 30% med. sand 60% fine sand. Sand 2 distinct colors but 1 descriptive type.
-3	36									
-4	37									
-5	38									
-6	39									
-7	40		80	SAND	5 Y 5/1	LSE	SAT		PID 0.0	Dark accessory minerals in small quantity.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-8	41			SAND	5 Y 5/1	LSE	SAT		PID 0.0	Dark accessory minerals in small quantity.
-9	42									
-10	43									
-11	44									
-12	45			SAND	2.5 Y N5/	LSE	SAT		PID 0.0	Composite from 35-50' due to mechanical problems, but sands were probably from depths <45'.
-13	46									
-14	47									
-15	48									
-16	49									
-17	50		100	SAND	5 Y 6/1	STF	SAT	31 60 95 0	HNU 0.0	Gray with approximately 20% black mineral.
-18	51									
-19	52			No Sample Recovered						
-20	53			No Sample Recovered					HNU 0.0	4-foot split spoon used. Only recovery was from 50-51.5' as blow counts demonstrated refusal.
-21	54			Interval Not Sampled						
-22	55		100	SAND	2.5 Y 6/2	STF	SAT	22 32 53 65	HNU 0.0	Light brownish gray.
-23	56									
-24	57			Interval Not Sampled					HNU 0.0	4-foot split spoon, only sampled 2 feet into spoon
-25	58									
-26	59		50	SAND	10 YR 6/1	NA	SAT		HNU 0.0	Gray, trace black mineral in sand.
-27	60			SAND, sm SILT, lt CLAY	2.5 Y 6/2	NA	SAT		HNU 0.0	Light brownish gray, mostly fine sand, trace medium, 10% black mineral

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-28	61			SAND, sm SILT, lt CLAY	2.5 Y 6/2	NA	SAT		HNU 0.0	Light brownish gray, mostly fine sand, trace medium, 10% black mineral
-29	62									
-30	63									
-31	64									
-32	65			SAND, sm SILT, lt CLAY	2.5 Y 6/2	NA	SAT		HNU 0.0	Light brownish gray.
-33	66									
-34	67									
-35	68									
-36	69									
-37	70			Not Classified - Incomplete	5 Y 6/2				HNU 0.0	
-38	71			SAND, tr GRAVEL, tr CLAY	2.5 Y 5/6	NA			HNU 0.0	Gray, tr. amethyst grains & limonite, some shells, sea urchin spines, mostly quartz grains.
-39	72									
-40	73									
-41	74									
-42	75			SAND, lt CLAY, tr GRAVEL	2.5 Y 5/2	FRM	NA		HNU 0.0	Grayish brown. Same as above but there is grout, from when the casing was emplaced. Tr. shells.
-43	76									
-44	77									
-45	78									
-46	79									
-47	80			SAND, lt CLAY, tr GRAVEL	2.5 Y 5/2	NA	NA		HNU 0.0	Grayish brown, trace fine grained black mineral, trace fossils, shells, sea urchin spines.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-48	81			SAND, lt CLAY, tr GRAVEL	2.5 Y 5/2	NA	NA		HNU 0.0	Grayish brown, trace fine grained black mineral, trace fossils, shells, sea urchin spines.
-49	82									
-50	83									
-51	84									
-52	85			SAND, lt CLAY, tr GRAVEL	2.5 Y 5/2	NA	NA		HNU 0.0	Grayish brown, trace fine grained black mineral shells, sea urchin spines
-53	86									
-54	87									
-55	88									
-56	89									
-57	90									
-58	91									
-59	92			SAND, lt GRAVEL	2.5 Y 6/2	NA	NA		HNU 0.0	Hit another shell bed. Drilled harder, light brownish gray 25% quartz. Mostly fossil frags.
-60	93									
-61	94									
-62	95			SAND, lt GRAVEL	2.5 Y 6/2	FRM	NA		HNU 0.0	10-15% qtz grains. Mostly fossils including sea urchin spines, shell frags. Rock frags are biomicrite
-63	96									
-64	97									
-65	98									
-66	99									
-67	100			SAND, lt GRAVEL	5 Y 5/2	NA	NA		HNU 0.0	25% quartz grains, olive gray. Sand is a bromi-crite.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-108	141			SILT and SAND, tr GRAVEL	5 Y 5/2	FRM	WET		HNU 0.0	Low recovery on screen, must be fines. Some wash from above. Olive gray, grvl - biomicrite.
-109	142									
-110	143									
-111	144									
-112	145			SAND and SILT, tr CLAY, tr GRAVEL	5 Y 5/2	NA	DMP		PID 1.2	HNU reading probably due to H2O vapor. Olive gray, rock frags are biomicrite w/sparry calcite.
-113	146									
-114	147									
-115	148									
-116	149									
-117	150			SAND and SILT, tr CLAY, tr GRAVEL	5 Y 5/2	NA	DMP		HNU 0.5	HNU reading probably due to vapor readings. Olive gray, same as above.
-118	151									
-119	152									
-120	153									
-121	154									
-122	155			SILT and SAND, tr CLAY, tr GRAVEL	5 Y 5/2	NA	DMP		HNU 0.0	Olive gray, some rock fragments as above.
-123	156									
-124	157									
-125	158									
-126	159									
-127	160			SAND and SILT, sm GRAVEL, tr CLAY	5 Y 5/2	NA	NA		PID 0.0	Olive gray.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS	
-128	161			SAND and SILT, sm GRAVEL, tr CLAY	5 Y 5/2	NA	NA		PID 0.0	Olive gray.	
-129	162										
-130	163										
-131	164										
-132	165				SAND and SILT, tr GRAVEL, tr CLAY	5 Y 5/2	NA	NA		PID 0.0	Olive gray, rock frag- ments as above.
-133	166										
-134	167										
-135	168										
-136	169										
-137	170				SAND and SILT, tr GRAVEL, tr CLAY	5 Y 5/2	NA	NA		PID 0.0	Olive gray, rock frags, as above, approx. 20% coarse sand fragments.
-138	171										
-139	172										
-140	173										
-141	174										
-142	175			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray, trace coarse sand, fragments as above.	
-143	176										
-144	177										
-145	178										
-146	179										
-147	180			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray.	

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-4	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 0.0000 estimated	DRILLING RIG : SPEEDSTAR STAR DRILL 300
EASTING : 0.0000 estimated	DATE STARTED : 03/18/92
ELEVATION : 32.180 surveyed	DATE COMPLETED : 04/03/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-148	181			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray.
-149	182									
-150	183									
-151	184									
-152	185			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray, same as above
-153	186									
-154	187									
-155	188									
-156	189									
-157	190			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray, same as above
-158	191									
-159	192									
-160	193									
-161	194									
-162	195			SAND and SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Olive gray.
-163	196									
-164	197									
-165	198									
-166	199									
-167	200									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1795.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1675.0000 estimated	DATE STARTED : 04/03/92
ELEVATION : 32.030 surveyed	DATE COMPLETED : 04/07/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1			Interval Not Sampled						See Mw-S-5 lithologic log in 0-30' interval.
30	2									
29	3									
28	4									
27	5									
26	6									
25	7									
24	8									
23	9									
22	10									
21	11									
20	12									
19	13									
18	14									
17	15									
16	16									
15	17									
14	18									
13	19									
12	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1795.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1675.0000 estimated	DATE STARTED : 04/03/92
ELEVATION : 32.030 surveyed	DATE COMPLETED : 04/07/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
11 - 21				Interval Not Sampled						See MW-S-5 lithologic log in 0-30' interval.
10 - 22										
9 - 23										
8 - 24										
7 - 25										
6 - 26										
5 - 27										
4 - 28										
3 - 29										
2 - 30			75	SAND, tr SILT	10 YR 6/1	LSE	SAT	3	PID 0.0	
1 - 31								6		
0 - 32				SAND, tr GRAVEL	5 YR 5/2	NA	NA	9	PID 0.0	All previous samples were logged with S-2. Gray sand bridged around spoon changed to mud rotary.
0 - 33								11		Gray, trace amethyst, quartz gravel.
-1 - 34										
-2 - 35				SAND, tr SILT, tr GRAVEL	5 Y 5/2	NA	NA		PID 0.0	Gray, trace amethyst, sand and black stone.
-3 - 36										
-4 - 37										
-5 - 38										
-6 - 39										
-7 - 40				SAND, tr SILT, tr GRAVEL	5 Y 5/1	LSE	NA		PID 0.0	Gray, trace amethyst and black stone, mostly medium sand.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1795.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1675.0000 estimated	DATE STARTED : 04/03/92
ELEVATION : 32.030 surveyed	DATE COMPLETED : 04/07/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-8	41			SAND, tr SILT, tr GRAVEL	5 Y 5/1	LSE	NA		PID 0.0	Gray, trace amethyst and black stone, mostly medium sand.
-9	42									
-10	43									
-11	44									
-12	45			SAND, lt SILT	5 Y 5/1	NA	NA		PID 0.0	Gray, sand becoming finer, trace amethyst and black grains.
-13	46									
-14	47									
-15	48									
-16	49									
-17	50			SAND, lt SILT	5 Y 5/1	LSE	NA		PID 0.0	Gray, change at 52' more silt but still drilling the same.
-18	51									
-19	52			SAND, sm SILT	5 Y 5/1	NA	NA		PID 0.0	Gray, tr. black mineral mostly f sand. Some silt balls, hard to drill. Much bentonite in mud.
-20	53									
-21	54									
-22	55			SAND, lt SILT, tr GRAVEL	5 Y 5/1	NA			PID 0.0	Gray w/ yellow clayey sand, sharks tooth found.
-23	56									
-24	57									
-25	58									
-26	59									
-27	60			SAND, sm SILT, tr GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Gray, quartz, amethyst and sharks tooth, gravel.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1795.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1675.0000 estimated	DATE STARTED : 04/03/92
ELEVATION : 32.030 surveyed	DATE COMPLETED : 04/07/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-28	61			SAND, sm SILT, tr GRAVEL	5 Y 5/1	NA	NA		PID 0.0	Gray, quartz, amethyst and sharks tooth, gravel.
-29	62									
-30	63									
-31	64									
-32	65			No Sample Recovered					PID 0.0	Really soft layer, perhaps a silt layer with some clay from 65 to 66'. Nothing showing up.
-33	66			SAND, sm GRAVEL, lt SILT, tr CLAY	5 Y 5/1	NA	NA		PID 0.0	Gray, fossil layer w/sea urchin spines, shell frags sharks teeth w/rock frags biomicrite, tr. blk minrl
-34	67									
-35	68									
-36	69									
-37	70			GRAVEL, sm SAND	5 Y 6/2	NA	NA		PID 0.0	Lt olive gray, limey sand cemented w/calcite. Drilling harder? or just build up from lower speed
-38	71									
-39	72									
-40	73									
-41	74									
-42	75			GRAVEL, sm SAND	5 Y 6/2	NA	NA		PID 0.0	Same as above, light olive gray.
-43	76									
-44	77									
-45	78									
-46	79									
-47	80			SAND, sm SILT, lt CLAY	5 Y 4/1	NA	NA		PID 0.0	Dark gray.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL
WELL ID : C-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1795.0000 estimated	DRILLING RIG : SPEEDSTAR STARDRILL 300
EASTING : 1675.0000 estimated	DATE STARTED : 04/03/92
ELEVATION : 32.030 surveyed	DATE COMPLETED : 04/07/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
-48	81			SAND, sm SILT, lt CLAY	5 Y 4/1	NA	NA		PID 0.0	Dark gray.
-49	82									
-50	83			GRAVEL and SAND	5 Y 5/2	STF	SAT		PID 0.0	Lt. olive gray, limey sand w/ shell frags (sea urchines, sharks teeth).
-51	84									
-52	85			GRAVEL and SAND	5 Y 5/1	STF	SAT		PID 0.0	Gray, calcite cemented, limey sand w/sparry calcite as secondary cementation, tr. fossils.
-53	86									
-54	87									
-55	88									
-56	89									
-57	90			GRAVEL and SAND		STF	SAT		PID 0.0	90.5' hit very hard layer
-58	91									
-59	92									
-60	93									
-61	94									
-62	95									
-63	96									
-64	97									
-65	98									
-66	99									
-67	100									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 39.70
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1349.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2451.0000 estimated	DATE STARTED : 03/23/92
ELEVATION : 32.460 surveyed	DATE COMPLETED : 03/26/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1		70	SAND, tr SILT	2.5 Y 4/2	LSE	DMP	2	PID 0.0	Dark grayish brown, 2.5 Y 6/4 light yellow-brown. Color change @ 0.2' depth only. Hit slag at base. Light olive brown. 10 YR 4/1. 10 YR 2/1 mottling brown, dark gray, black. Hit slag at base. Light olive brown/dark gray. Light olive brown.
				CLAY, sm SAND	10 YR 5/1	FRM	DMP	2	PID 0.0	
				SAND, lt SILT	2.5 Y 5/4	SFT	DMP	2	PID 0.0	
				SAND and SILT	10 YR 5/3	LSE	DMP	2	PID 0.0	
30	2		90	No Sample Recovered						
				SAND, sm SILT, tr GRAVEL	2.5 Y 5/3	FRM	DMP	2	PID 0.0	
29	3			SAND and SILT, lt CLAY	2.5 Y 5/3	FRM	DMP	2	PID 0.0	Light olive brown.
				No Sample Recovered						
27	5		75	SAND and SILT, lt CLAY	2.5 Y 5/2	FRM	DMP	2	PID 0.0	Grayish brown.
				SILT, sm SAND, lt CLAY	2.5 Y 6/2	FRM	DMP	2	PID 0.0	Light brownish gray.
25	7		100	SILT and SAND, sm CLAY	2.5 Y 6/2	SFT	MST	2	PID 0.0	Light brownish gray.
23	9			SILT and SAND, sm CLAY	2.5 Y 6/2	SFT	MST	2	PID 0.6	Light brownish gray.
21	11		100	SAND, lt SILT	10 YR 6/2	SFT	MST	2	PID 0.0	Light brownish gray.
				SAND, lt SILT, tr CLAY	2.5 Y 6/2	MST	MST	2	PID 0.0	Light brownish gray, iron staining present.
19	13		55	SAND, lt SILT, lt CLAY, SAND, tr SILT	2.5 Y 6/2	SFT	MST	5	PID 0.0	Light brownish gray.
						SFT	MST	5	PID 0.0	Light brownish gray/bedding: white.
17	15		100	No Sample Recovered						
				SAND	10 YR 7/2	SFT	WET	2	PID 0.0	
16	16		70	SAND, lt SILT	10 YR 7/2	SFT	WET	5	PID 0.0	10% amethyst, light gray.
				SAND, tr CLAY, tr SILT	2.5 Y 7/2	FRM	MST	2	PID 0.0	
14	18		45	SAND, sm SILT, lt CLAY		FRM	MST	5	PID 0.0	
				No Sample Recovered						
13	19			SAND and SILT, sm CLAY	2.5 Y 8/2	FRM	WET	2	PID 0.6	White.
				No Sample Recovered						
12	20			SAND and SILT	2.5 U 8/3	SFT	SAT	1	PID 0.0	Pale yellow.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 39.70
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-2	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1349.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2451.0000 estimated	DATE STARTED : 03/23/92
ELEVATION : 32.460 surveyed	DATE COMPLETED : 03/26/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
11	21			SAND and SILT	2.5 U 8/3	SFT	SAT		PID 0.0	Pale yellow.
10	22		100	SAND, tr SILT		FRM	SAT		PID 0.0	
9	23									
8	24									
7	25		100	SAND, tr GRAVEL	2.5 Y 6/1	FRM	SAT		PID 0.0	Gray.
6	26									
5	27									
4	28									
3	29									
2	30		100	SAND, tr SILT	2.5 Y 6/1	FRM	SAT		PID 0.0	Gray.
1	31									
0	32									
0	33									
-1	34									
-2	35		100	SAND, tr CLAY, tr SILT	2.5 Y 6/1	FRM	SAT		PID 0.0	
-3	36									
-4	37									
-5	38									
-6	39									
-7	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 30.00
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1769.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 1686.0000 estimated	DATE STARTED : 04/01/92
ELEVATION : 31.890 surveyed	DATE COMPLETED : 04/01/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1		60	SILT, sm SAND	2.5 Y 3/0	LSE	DMP	2	PID 0.0	Black, light gray.
29	2							4		
28	3									
27	4		20	SAND, sm SILT No Sample Recovered	10 YR 3/1	LSE	DMP	2	PID 0.0 PID 0.0	Black.
26	5							2		
25	6									
24	7		50	CLAY, sm SILT, lt SAND		FRM	DMP	1	PID 0.0	
23	8			SAND, sm SILT, tr CLAY	10 YR 6/1	FRM	DMP	1	PID 0.0	Light gray.
22	9									
21	10			No Sample Recovered				1	PID 0.0	
20	11							0		
19	12		20 100	SAND, tr SILT, tr CLAY CLAY, tr SAND, tr SILT	5 YR 4/1 10 YR 6/1	SFT FRM	SAT MST	1	PID 0.0 PID 0.0	Light gray/dark gray.
18	13									
17	14		100	CLAY, lt SAND, tr SILT	10 YR 5/1	FRM	DMP	3	PID 0.0	Gray/yellow.
16	15									
15	16		60	CLAY, lt SAND	10 YR 5/1	SFT	WET	3	PID 0.0	Gray.
14	17			SAND, sm CLAY, lt SILT CLAY, sm SAND	2.5 Y 7/6 1.5 Y 7/2	SFT STF	MST MST	8	PID 0.0 PID 0.0	Yellow. Light gray color.
13	18		85	CLAY, lt SAND CLAY and SAND	2.5 Y 7/2 7.5 Y 8/2	FRM SFT	MST MST	3 8	PID 0.0 PID 0.0	White; mottled, mottling (7.5 y 8.8 olive yellow).
12	19									
11	20									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 30.00
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-5	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1769.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 1686.0000 estimated	DATE STARTED : 04/01/92
ELEVATION : 31.890 surveyed	DATE COMPLETED : 04/01/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
10	21		50	CLAY, sm SAND	2.5 Y 6/4	FRM	MST	3	PID 0.0	Light yellowish brown.
9	22			No Sample Recovered				3		
8	23		80	SAND, tr SILT	2.5 Y 8/3	LSE	SAT	3	PID 0.0	Pale yellow.
7	24							4		
6	25		50	SAND, tr SILT	2.5 Y 8/6	LSE	SAT	2	PID 0.0	Yellow color change at 25.6 feet - 2.5 Y 8/2 - white. Color change at 25.9 feet, gray green.
5	26							10		
4	27		70	CLAY, sm SAND, lt SILT	2.5 Y 7/2	FRM	WET	3	PID 0.0	Greenish gray.
3	28			SAND, tr SILT		FRM	WET	10	PID 0.0	
2	29		100	SAND, tr SILT		FRM	WET	5	PID 0.0	Greenish gray.
1	30							10		
0	31									
0	32									
-1	33									
-2	34									
-3	35									
-4	36									
-5	37									
-6	38									
-7	39									
-8	40									

Borehole Log

ROY F. WESTON, Inc.






CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : S-6	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1179.0000 estimated	DRILLING RIG : MOBILE B-57
EASTING : 2506.0000 estimated	DATE STARTED : 03/23/92
ELEVATION : 31.120 surveyed	DATE COMPLETED : 03/26/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1		100	SILT, sm SAND, tr CLAY, tr ORGANIC	5 YR 2.5/1	SFT	MST	1-3	PID 0.0	Black, trace roots, trace rubble at base.
29	2		60	SILT, sm CLAY, sm SAND	UNI	SFT	MST	2	HNU 0.0	Light gray. Iron stained light brownish gray with dark gray interbed at 2.5 to 2.7 feet.
28	3			SILT, sm CLAY, sm SAND	2.5 Y 6/2	SFT	MST	2	HNU 0.0	
27	4			No Sample Recovered						
26	5		90	CLAY and SILT, sm SAND	5 Y 6/1	SFT	MST	3-4	HNU 0.0	Gray, iron stained.
25	6			No Sample Recovered						
24	7		75	SILT, sm SAND, lt CLAY, tr GRAVEL	10 YR 7/1	SFT	MST	2	HNU 0.0	Light gray with grayish brown and 2.5 y 7/8 - yellow-iron stained.
23	8			No Sample Recovered						
22	9		50	SAND and CLAY, sm SILT	10 YR 6/1	SFT	MST	2-1	HNU 0.0	Light gray.
21	10			No Sample Recovered						
20	11		100	SAND, sm SILT	10 YR 7/1	SFT	WET	2	HNU 0.5	Light gray.
19	12			SAND, tr SILT	10 YR 7/1	SFT	SAT	2	PID 0.0	Light gray.
18	13			Not Classified - Incomplete Data				5		
17	14		80	SAND, sm SILT	10 YR 7/1	SFT	WET	2-4	HNU 0.0	Light gray, light brownish gray.
16	15			SAND, tr SILT, tr GRAVEL	5 Y 7/1	SFT	SAT		PID 0.0	Light gray.
15	16		85	No Sample Recovered						
14	17			SAND, lt SILT, lt CLAY	5 Y 7/1	SFT	WET	2	HNU 0.0	Light gray, yellow; mottled at base from 17.2 to 17.7 feet.
13	18			No Sample Recovered						
12	19									
11	20		100	SAND, sm CLAY, sm SILT	2.5 Y 6/0	LSE	SAT		FID 0.0	Light gray/gray.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB
WELL ID : S-6	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1179.0000 estimated	DRILLING RIG : MOBILE B-57
EASTING : 2506.0000 estimated	DATE STARTED : 03/23/92
ELEVATION : 31.120 surveyed	DATE COMPLETED : 03/26/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
10	21			SAND, sm CLAY, sm SILT	2.5 Y 6/0	LSE	SAT		FID 0.0	Light gray/gray.
9	22									
8	23									
7	24									
6	25		100	SAND, sm CLAY, sm SILT	2.5 Y 6/0	LSE	SAT		FID 0.0	Light gray.
5	26									
4	27									
3	28									
2	29									
1	30		100	SAND, sm CLAY, sm SILT	2.5 Y 6/0	LSE	SAT		FID 0.0	
0	31									
0	32									
-1	33									
-2	34									
-3	35		100	SAND, sm CLAY, sm SILT	2.5 Y 6/0	LSE	SAT		FID 0.0	
-4	36									
-5	37									
-6	38									
-7	39									
-8	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL/C. SZLUHA
WELL ID : S-7	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1294.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2321.0000 estimated	DATE STARTED : 04/05/92
ELEVATION : 31.300 surveyed	DATE COMPLETED : 04/05/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1		60	SILT and SAND		SFT	DMP	3	PID 0.0	
29	2		90	SILT and SAND	10 YR 2/1	SFT	DMP	4	PID 0.0	Black/light brownish gray
28	3		90	CLAY, sm SAND, lt SILT	10 YR 7/2	SFT	DMP	2	PID 0.0	Light gray.
26	5		100	CLAY, sm SAND, lt SILT	10 TY 7/2	SFT	DMP		PID 0.0	Light gray/light yellowish brown.
23	8		100	CLAY, sm SAND, lt SILT	10 YR 7/2	SFT	DMP	2	PID 0.0	Brown.
21	10			No Sample Recovered						
19	12			No Sample Recovered						
17	14			No Sample Recovered						
15	16		100	CLAY, lt SAND, lt SILT	5 Y 3/1	SFT	MST	10	PID 0.0	Very dark gray/gray.
13	18		100	SAND and SILT, lt CLAY	2.5 Y N/5	LSE	SAT	3	PID 0.0	Dark gray.
12	19			SAND, lt SILT	2.5 Y N/4	LSE	SAT		PID 0.0	Dark gray.
11	20			SAND, sm SILT, sm CLAY	5 Y 6/1	FRM	DMP		PID 0.0	Gray.
				No Sample Recovered					PID 0.0	

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : J. BRASWELL/C. SZLUHA
WELL ID : S-7	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 1294.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2321.0000 estimated	DATE STARTED : 04/05/92
ELEVATION : 31.300 surveyed	DATE COMPLETED : 04/05/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
10	21			No Sample Recovered					PID 0.0	
9	22		100	SAND, lt SILT, tr GRAVEL	5 Y 6/1	SFT	SAT	2	PID 0.0	Gray.
8	23									
7	24		100	SAND, lt SILT, tr GRAVEL	5 Y 6/1	SFT	SAT	2	PID 0.0	Gray/gray.
6	25									
5	26		100	SAND, sm SILT		SFT	SAT	3	PID 0.0	
4	27									
3	28		100	SAND, tr SILT, tr GRAVEL	10 YR 5/6	SFT	SAT	5	PID 0.0	Yellowish brown.
2	29									
1	30									
0	31									
0	32									
-1	33									
-2	34									
-3	35									
-4	36									
-5	37									
-6	38									
-7	39									
-8	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-8	DRILLING COMPANY : MC CALL BOTHERS, INC.
NORTHING : 1874.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2506.0000 estimated	DATE STARTED : 04/04/92
ELEVATION : 30.800 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
29	1		90	CLAY, sm SILT, tr SAND	10 YR 2/1	LSE	MST	1	PID 0.0	Black.
28	2		100	No Sample Recovered CLAY, sm SILT, tr SAND	10 YR 2/1	LSE	MST		PID 0.0	Black.
27	3			CLAY, sm SILT, lt SAND	10 YR 2/1	LSE	WET		PID 0.0	Black.
26	4		85	Not Classified - Incomplete SAND, sm SILT	10 YR 2/1	LSE	WET		PID 0.0	Black.
25	5			SAND, sm SILT	10 YR 2/1	LSE	SAT	4	PID 0.0	Black.
25	5			SAND, sm CLAY, sm SILT	10 YR 3/2	LSE	SAT	4	PID 0.0	Very dark grayish brown.
25	5			SAND, sm SILT	10 YR 7/2	LSE	SAT	4	PID 0.0	Light green.
24	6		100	No Sample Recovered SAND, tr SILT	10 YR 7/2	LSE	SAT	4	PID 0.0	
23	7			SAND, sm CLAY	10 YR 7/1	FRM	MST	4	PID 0.0	Light gray.
22	8		95	SAND, sm SILT, sm CLAY	10 YR 6/2	SFT	MST	2	PID 0.0	Light brownish gray.
21	9							2		
20	10		90	SAND, lt SILT, lt CLAY	10 YR 6/1	SFT	MST	2	PID 0.0	Gray.
19	11							0		
18	12									
17	13		80	SAND, lt SILT	10 YR 6/1	LSE	SAT	2	PID 0.0	Gray.
16	14									
15	15									
14	16		100	CLAY, sm SAND	10 YR 5/1	SFT	MST	2	PID 0.0	Gray.
13	17		40	SAND, lt SILT	10 YR 6/1	LSE	SAT	27	PID 0.0	
12	18		100	SAND, lt SILT	10 YR 7/1	LSE	SAT	2	PID 0.0	Light gray.
11	19		100	SAND and CLAY	10 YR 5/1	SFT	SAT	16	PID 0.0	Gray.
10	20		100	SAND, lt SILT, tr GRAVEL	10 YR 7/1	LSE	SAT	3	PID 0.0	

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 0.00
SITE NAME : ABC DRY CLEANERS	LOGGER : C. SZLUHA
WELL ID : S-8	DRILLING COMPANY : MC CALL BORTHERS, INC.
NORTHING : 1874.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2506.0000 estimated	DATE STARTED : 04/04/92
ELEVATION : 30.800 surveyed	DATE COMPLETED : 04/04/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
9	21			SAND, lt SILT, tr GRAVEL	10 YR 7/1	LSE	SAT		PID 0.0	
8	22			SAND, lt SILT	10 YR 6/1	LSE	SAT	3	PID 0.0	Gray.
7	23									
6	24									
5	25		45	SAND, lt SILT	10 YR 5/1	LSE	SAT	3	PID 0.0	Gray.
4	26			SAND, lt SILT, tr GRAVEL	5 Y 6/1	LSE	SAT	4	PID 0.0	Gray.
3	27									
2	28									
1	29									
0	30									
0	31									
-1	32									
-2	33									
-3	34									
-4	35									
-5	36									
-6	37									
-7	38									
-8	39									
-9	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 40.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB/C. SZLUHA
WELL ID : S-9	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2244.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2161.0000 estimated	DATE STARTED : 03/20/92
ELEVATION : 32.740 surveyed	DATE COMPLETED : 03/21/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
31	1		100	SAND, sm CLAY, lt SILT, tr GRAVEL	5 YR 3/2	SFT	MST	4	PID 0.0	Dark reddish brown. HNu not running due to rain. Black.
				SILT, sm SAND, sm CLAY	10 YR 2/1	SFT	MST	2	PID 0.0	
30	2		10	SILT, sm SAND, sm CLAY	10 YR 2/1	SFT	MST	3	PID 0.0	Black.
29	3			No Sample Recovered				3		
28	4		85	SILT, sm SAND, sm CLAY	10 YR 2/1	SFT	MST	2	PID 0.0	Black.
27	5			SILT, sm SAND, sm CLAY	5 YR 4/1	SFT	MST	3	PID 0.0	Dark gray.
				SAND, sm CLAY, lt SILT	10 YR 5/1	SFT	DMP		PID 0.0	Gray.
26	6		40	No Sample Recovered				2	PID 0.0	Gray.
				SAND, sm CLAY, lt SILT	10 YR 5/1	FRM	DMP			
25	7			No Sample Recovered				3		
24	8		70	SILT, sm CLAY, lt SAND	10 YR 5/1	LSE	MST	2	PID 0.0	
23	9			No Sample Recovered				1		
				SILT, lt CLAY, lt SAND	2.5 Y 4/1	SFT	WET	1	PID 0.0	Dark gray.
22	10		50					0		
21	11			No Sample Recovered				0		
20	12		75	SILT, sm CLAY	2.5 Y 4/1	SFT	WET		PID 0.0	Dark gray; weight of hammer dropped the spoon through 2 feet.
19	13			No Sample Recovered						
18	14		40	CLAY, sm SILT	2.5 Y 4/1	LSE	MST	1	PID 0.0	Gray.
								1		
17	15			No Sample Recovered				0		
16	16		35	CLAY, sm SILT	5 Y 6/1	SFT	MST	2	PID 0.0	Gray.
				No Sample Recovered				2		
15	17			No Sample Recovered				2		
14	18		70	CLAY, sm SILT	5 Y 6/1	SFT	MST	2	PID 0.0	Gray mottled with blue greenish gray, not on chart.
13	19			No Sample Recovered				0		
12	20			CLAY, sm SILT	5 Y 6/1	SFT	MST	9	PID 0.0	Gray.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 40.00
SITE NAME : ABC DRY CLEANERS	LOGGER : B. JAKUB/C. SZLUHA
WELL ID : S-9	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2244.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 2161.0000 estimated	DATE STARTED : 03/20/92
ELEVATION : 32.740 surveyed	DATE COMPLETED : 03/21/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
11	21		75	CLAY, sm SILT	5 Y 6/1	SFT	MST	7	PID 0.0	Gray.
				CLAY, sm SILT	5 Y 5/1	SFT	MST	9	PID 0.0	5 Y 5/1 Greenish gray.
				SAND, lt SILT	5 Y 5/1	FRM	WET	0	PID 0.0	Greenish gray.
10	22		100	No Sample Recovered				2	PID 0.0	Greenish gray - not on Munsell.
				CLAY, sm SILT		SFT	MST	4	PID 0.0	Greenish gray - not on Munsell (on Gley chart).
9	23			SILT, sm SAND, tr CLAY		SFT	SAT	6	PID 0.0	Lenses of quartz gravel. Greenish gray color not in Munsell book.
				SAND, sm CLAY, sm SILT	GREENISH GRAY		MST		PID 0.0	Greenish gray (glaucanite giving it greenish color?); quartz and trace garnet.
8	24		65	SAND, lt SILT	GREENISH GRAY	SFT	WET	2	PID 0.0	
				No Sample Recovered				4		
6	26		40	SAND, lt SILT		SFT	SAT		PID 0.0	Greenish gray, glauconitic.
5	27			No Sample Recovered						
4	28		100	SAND	5 Y 6/1	FRM	WET	4	PID 0.0	Light gray.
								8		
								10		
2	30			SAND	2.5 Y 4/0	FRM	SAT	4	PID 0.0	Dark gray.
				SAND, tr CLAY, tr SILT		LSE	WET	4	PID 0.2	Greenish gray (not in Munsell chart).
								5		
0	32		60	SILT, lt SAND, tr CLAY	5 Y 5/1	FRM	WET	2	PID 0.0	Gray.
0	33							5		
-1	34		55	SAND, tr CLAY	5 Y 5/1	FRM	WET	6	PID 0.0	Gray.
				No Sample Recovered				20		
								6		
-2	35			No Sample Recovered				6		
-3	36		100	SAND, tr CLAY	5 Y 5/1	FRM	WET	15	PID 0.0	Gray.
								13		
								11		
-4	37							8		
-5	38		90	SAND, tr SILT	5 Y 5/1	FRM	WET		PID 0.0	Gray.
-6	39									
-7	40									

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 40.00
SITE NAME : EBC DRY CLEANERS	LOGGER : B. JAKUB/C. SZLUHA
WELL ID : S-10	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2484.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 1386.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 31.550 surveyed	DATE COMPLETED : 03/20/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
30	1		85	SAND, lt SILT, lt ORGANIC	BLACK	SFT	DMP	3	AIM 0.0	Organics include roots and grass. Charcoal lens at 0.9'. Black 2/4, Y 2/N2/0.
				SAND, lt SILT	LT GRAY	SFT	DMP	3	AIM 0.0	
				SAND, sm SILT, lt CLAY	LT YELLOW-BRN	SFT	DMP	3	AIM 0.0	
29	2		80	No Sample Recovered						Dark grayish brown lenses in conical shape. Very poorly stained.
				SAND, lt SILT, tr CLAY	10 YR 7/3	SFT	DMP	2	AIM 0.0	
28	3		80	SAND, sm SILT, sm CLAY	LT GRAY	SFT	DMP	2	AIM 0.0	Dark grayish brown lenses in conical shape. Very poorly stained.
27	4		90	No Sample Recovered						Angled laminations as in graphic log, Chevron folding.
				SAND, sm SILT, tr CLAY	V DK GRAY	SFT	DMP	3	AIM 0.0	
26	5		90	SAND, sm SILT, sm CLAY	YELLOW	SFT	DMP	4	AIM 0.0	Angled laminations as in graphic log, Chevron folding.
25	6		100	No Sample Recovered						Angled laminations as in graphic log, Chevron folding.
				SAND, sm SILT, sm CLAY	YELLOW	SFT	DMP	2	AIM 0.0	
24	7		100	SAND, lt SILT, lt CLAY	GRAY	LSE	WET	3	AIM 0.0	Angled laminations as in graphic log, Chevron folding.
23	8		60	SAND, lt SILT, lt CLAY	GRAY	LSE	WET	1	AIM 0.0	Angled laminations as in graphic log, Chevron folding.
				CLAY, sm SILT, lt SAND	BROWN YELLOW	SFT	MST	2	AIM 0.0	
22	9		60	No Sample Recovered						Angled laminations as in graphic log, Chevron folding.
21	10		100	CLAY, sm SILT, lt SAND	LT YELLOW-BRN	SFT	MST	1	AIM 0.0	Iron staining.
				SAND, sm SILT, lt CLAY	LT YELLOW-BRN	SFT	MST	1	AIM 0.0	
20	11		100	CLAY, tr SILT, tr SAND	5 Y 5/1	SFT	MST	1	AIM 0.0	Iron stained.
19	12		100	No Sample Recovered						Weight of hammer for first foot (1 blow for second foot).
				CLAY, sm SILT	2.5 Y 5/0	SFT	MST	1	AIM 0.0	
18	13		100							Weight of hammer for first foot (1 blow for second foot).
17	14		85	SILT, sm SAND, lt CLAY	2.5 YR 5/0	SFT	MST	1	AIM 0.0	Weight of hammer for first foot (1 blow for second foot).
16	15		85							Weight of hammer for first foot (1 blow for second foot).
15	16		85	No Sample Recovered						Weight of hammer for first foot (1 blow for second foot).
				SAND, sm SILT, lt CLAY	2.5 YR 5/0	SFT	MST	1	AIM 0.0	
14	17		85							Weight of hammer for first foot (1 blow for second foot).
13	18		65	No Sample Recovered						Light yellowish brown. Iron stained.
				SAND, sm SILT, lt CLAY	2.5 YR 5/0	SFT	MST	2	AIM 0.0	
12	19		65	SAND, tr SILT	10 YR 6/3	SFT	SAT	11	AIM 0.0	Light yellowish brown. Iron stained.
11	20		60	SAND, tr SILT	10 YR 6/8	SFT	SAT	3	AIM 0.0	Brownish yellow iron stained.

Borehole Log

ROY F. WESTON, Inc.

CLIENT : ABC DRY CLEANERS	TOTAL DEPTH : 40.00
SITE NAME : EBC DRY CLEANERS	LOGGER : B. JAKUB/C. SZLUHA
WELL ID : S-10	DRILLING COMPANY : MC CALL BROTHERS, INC.
NORTHING : 2484.0000 estimated	DRILLING RIG : MOBILE DRILL B-57
EASTING : 1386.0000 estimated	DATE STARTED : 03/19/92
ELEVATION : 31.550 surveyed	DATE COMPLETED : 03/20/92

ELEVATION	DEPTH	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
10	21			SAND, tr SILT	10 YR 6/8	SFT	SAT		AIM 0.0	Brownish yellow iron stained.
				SAND, tr CLAY, tr SILT	2.5 Y 5/0	SFT	SAT		AIM 0.0	Gray.
				No Sample Recovered						
9	22		45	SAND, tr CLAY	2.5 Y 5/3	SFT	MST	2	AIM 0.0	Light olive brown.
				SAND, tr SILT	2.5 Y 5/0	SFT	SAT	2	AIM 0.0	Gray.
8	23			No Sample Recovered				7		
7	24		25	SAND, tr SILT	2.5Y6/3,5Y7/1	SFT	MST	2	HNU 0.0	Light yellowish brown with light olive brown stringers. Light gray.
6	25			No Sample Recovered				13		
5	26		50	SAND, tr SILT, tr CLAY	7.5 Y 5/0	SFT	WET	2	HNU 0.0	Gray (darkens at base) to 7.5 Y 4/0.
4	27			No Sample Recovered				13		
3	28		40	SAND, tr GRAVEL, tr SILT	7.5 YR 4/0	SFT	WET	4	HNU 0.0	Dark gray.
				SAND, tr SILT	5 Y 5/0	SFT	WET	5	HNU 0.0	Appears greenish.
2	29			Not Classified - Incomplete Data				11		
1	30		45	SAND, tr SILT	2.5 Y 3/0	SFT	SAT	4	PID 0.0	Predomin. medium.
0	31			Not Classified - Incomplete Data				11		
0	32		85	SAND, tr SILT	2.5 Y 3/0	SFT	SAT		PID 0.0	
-1	33									
-2	34		70	Not Classified - Incomplete Data				3	PID 0.0	
				SAND, tr SILT	5 Y 4/1	SFT	SAT	4	PID 0.0	
-3	35							3		
-4	36		100	SAND, tr SILT	5 Y 4/1	SFT	SAT	12	PID 0.0	Very fine sand sized particles of black mineral at base of sample
-5	37							18		
								11		
								9		
-6	38		100	SAND, tr SILT	5 Y 4/1	SFT	SAT	5	PID 0.0	
-7	39							7		
								9		
-8	40									

This document was prepared by Roy F. Weston, Inc., expressly for EPA. It shall not be released or disclosed, in whole or in part, without the express written permission of EPA.

Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix A
Revision: 1
Date: November 1992

MONITOR WELL CONSTRUCTION DETAILS

Well Completion Summary

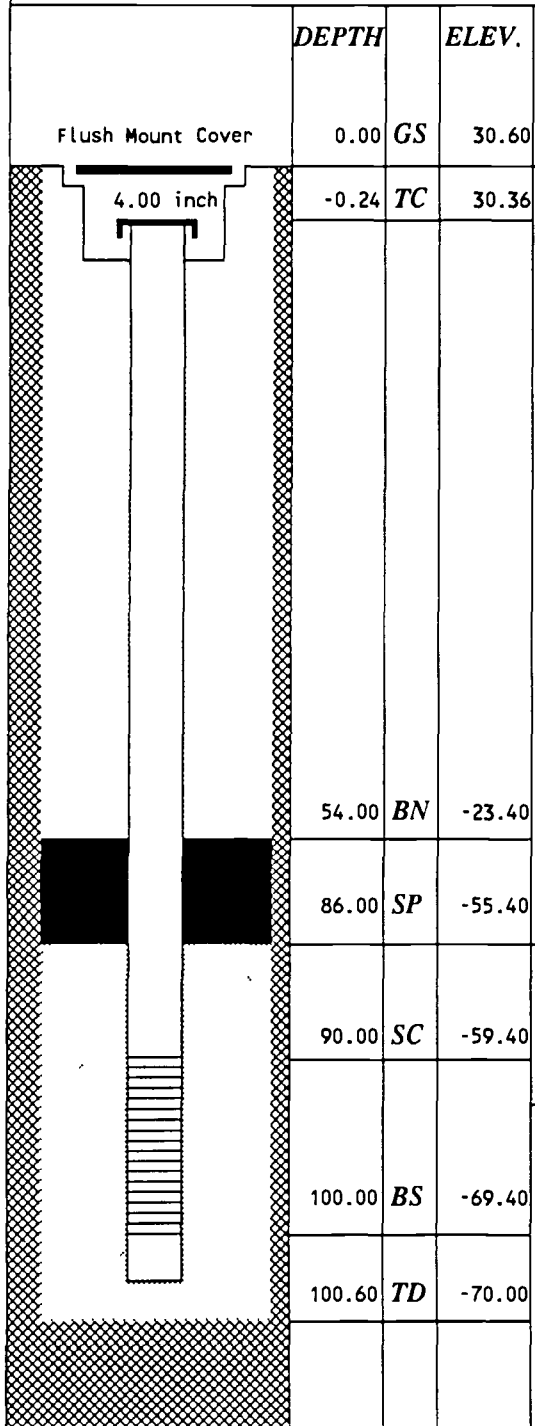
ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS
 SITE NAME ABC DRY CLEANERS

DRILLING FIRM MC CALL BROTHERS, INC.
 INSPECTOR B. JAKUB

WELL ID C-1
 START DATE 04/03/92
 COMPLETION DATE 04/04/92

WATER LEVELS



DRILLING SUMMARY
 Driller B. WILLIAMSON/J. CARTER
 Drilling Fluid MUD
 Well Type SINGLE CASED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 90.00 ft.
 Type: STAINLESS

Top of Inner Casing Depth: -0.24 ft.

Casing Grout: CEMENT/BENT Interval: 2.00 to 54.00 ft.

Seal Type: PURE GOLD BENTONITE Interval: 54.00 to 86.00 ft.

Sand Pack Type: TORPEDO #3 Interval: 86.00 to 100.60 ft.
 Grain Size: UNIFORM Median Diameter:
 Screen Diameter: 4.00 Interval: 90.00 to 100.00 ft.
 Type: Slots: 0.020 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type: CUTTINGS Interval: 100.00 to 104.00

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:
 Bottom cap extends from 100 to 110.6 feet.

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS SITE NAME ABC DRY CLEANERS		DRILLING FIRM MC CALL BROTHERS, INC. INSPECTOR B. JAKUB			
WELL ID C-2 START DATE 04/07/92 COMPLETION DATE 04/08/92		WATER LEVELS			
<p>Flush Mount Cover 4.00 inch</p>	DEPTH	ELEV.	DRILLING SUMMARY Driller B. WILLIAMSON/J. CARTER Drilling Fluid MUD Well Type SINGLE CASSED SCREENED		
	0.00 GS	32.02	WELL DESIGN CONSTRUCTION Casing #1 Diameter: 4.00 inch Interval: 0.00 to 74.50 ft. Type: STAINLESS Top of Inner Casing Depth: -0.19 ft. Casing Grout: CEMENT/BENT Interval: 2.00 to 58.00 ft. Seal Type: BENTONITE Interval: 58.00 to 70.00 ft. Sand Pack Type: #3 TORPEDO Interval: 70.00 to 85.00 ft. Grain Size: Median Diameter: Screen Diameter: 4.00 Interval: 74.50 to 84.50 ft. Type: STAINLESS Slots: 0.020 inches Silt Trap Interval: 0.00 to 0.00 ft. Backfill Type: CUTTINGS Interval: 85.00 to 87.00		
	-0.19 TC	31.83			
	58.00 BN	-25.98			
	70.00 SP	-37.98			
	74.50 SC	-42.48			
	84.50 BS	-52.48			
	85.00 TD	-52.98			
					WELL DEVELOPMENT Date / / Method Yield Purged Volume
					COMMENTS TC = Top of Casing SP = Top Sand Pack = Grout GS = Ground Surface SC = Top Screen = Seal BN = Top Seal BS = Bottom Screen = Sand Pack TD = Total Depth = Formation
				Additional Comments: Lock No. 3664.	

NOTE: Well Diagram not to Scale

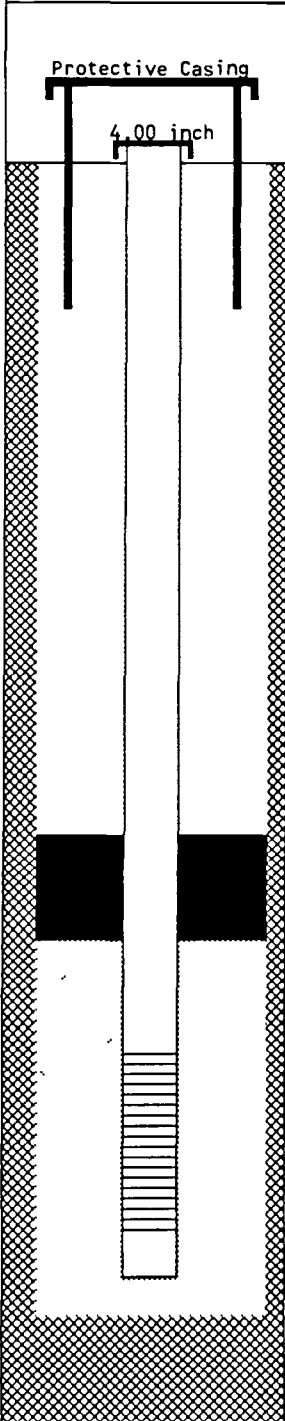
Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT	ABC DRY CLEANERS	DRILLING FIRM	MC CALL BROTHERS, INC.
SITE NAME	ABC DRY CLEANERS	INSPECTOR	B. JAKUB/J. BRASWELL

WELL ID	C-3	WATER LEVELS
START DATE	03/19/92	
COMPLETION DATE	04/09/92	

	DEPTH		ELEV.	DRILLING SUMMARY	
	Protective Casing 4.00 inch	2.90	TC	39.20	Driller
	0.00	GS	36.30	Drilling Fluid	MUD
				Well Type	SINGLE CASED SCREENED
WELL DESIGN CONSTRUCTION					
				Casing #1 Diameter:	4.00 inch Interval: 0.00 to 89.40 ft.
				Type :	STAINLESS
				Stick Up Inner Casing:	2.90 ft. Protective Casing: 0.00 ft.
				Casing Grout:	CEMT/BENT Interval: 0.00 to 70.00 ft.
				Seal Type:	PURE GOLD Interval: 70.00 to 75.00 ft.
				Sand Pack Type :	#3 TORPEDO Interval: 75.00 to 89.40 ft.
				Grain Size :	UNIFORM Median Diameter:
				Screen Diameter:	4.00 Interval: 79.10 to 89.40 ft.
				Type :	STAINLESS Slots: 0.020 inches
	70.00	BN	-33.70	Silt Trap Interval:	89.10 to 89.40 ft.
	75.00	SP	-38.70	Backfill Type :	CUTTINGS Interval: 89.40 to 90.50 ft.
WELL DEVELOPMENT					
	79.10	SC	-42.80	Date	/ /
				Method	
				Yield	Purged Volume
COMMENTS					
	89.40	BS	-53.10	TC = Top of Casing	SP = Top Sand Pack = Grout
				GS = Ground Surface	SC = Top Screen = Seal
				BN = Top Seal	BS = Bottom Screen = Sand Pack
	90.50	TD	-54.20	TD = Total Depth	☒ = Formation
Additional Comments:					
ST is not a true silt trap but actually a female plug with 3-inch stick up.					

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC	DRILLING FIRM MC CALL BROTHERS, INC.		
SITE NAME	INSPECTOR B. JAKUB/J. BRASWELL		
WELL ID C-4	WATER LEVELS		
START DATE 04/01/92			
COMPLETION DATE 04/02/92			
	DEPTH	ELEV.	DRILLING SUMMARY
	2.37 TC	36.99	Driller CHRIS MC DONALD
	0.00 GS	34.62	Drilling Fluid MUD
			Well Type DOUBLE CASED SCREENED
	WELL DESIGN CONSTRUCTION		
			Casing #1 Diameter: 4.00 inch Interval: 0.00 to 120.00 ft.
			Type: LOW CARBON
			Casing #2 Diameter: 10.00 inch Interval: 0.00 to 76.00 ft.
			Type: STAINLESS
			Stick Up Inner Casing: 2.37 ft. Outer Casing: 3.03 ft.
		Casing Grout: CEMENT/BENT Interval: 0.00 to 97.00 ft.	
76.00 OC	-41.38	Seal Type: PURE GOLD Interval: 84.00 to 112.00 ft.	
		Sand Pack Type: #3 TORPEDO Interval: 112.00 to 130.30 ft.	
		Grain Size:	
		Screen Diameter: 4.00 Interval: 120.00 to 130.00 ft.	
84.00 BN	-49.38	Type: STAINLESS Slots: 0.020 inches	
		Silt Trap Interval: 0.00 to 0.00 ft.	
112.00 SP	-77.38	Backfill Type: Interval: 130.00 to 200.00 ft.	
		Top of Bedrock:	
120.00 SC	-85.38	WELL DEVELOPMENT	
		Date / /	
		Method	
		Yield	
		Purged Volume	
130.00 BS	-95.38	COMMENTS	
		TC = Top of Casing SP = Top Sand Pack = Grout	
		GS = Ground Surface SC = Top Screen = Seal	
		BN = Top Seal BS = Bottom Screen = Sand Pack	
		OC = Outer Casing TD = Total Depth = Formation	
130.40 TD	-95.78	Additional Comments:	
		Backfill consists of cuttings at base. Approx. 10' bentonite (5 buckets). Cap on base of well 3', Screen base at 130'.	

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

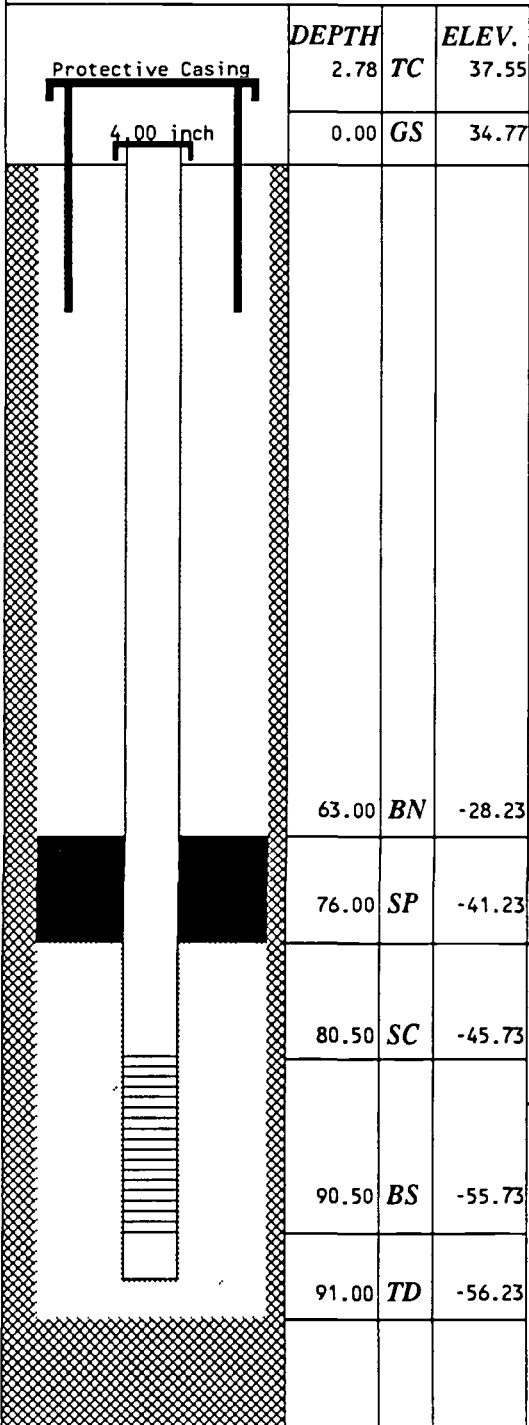
ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS
 SITE NAME ABC DRY CLEANERS

DRILLING FIRM MC CALL BROTHERS, INC.
 INSPECTOR B. JAKUB

WELL ID C-5
 START DATE 04/06/92
 COMPLETION DATE 04/07/92

WATER LEVELS



DRILLING SUMMARY

Driller B. WILLIAMSON/J. CARTER
 Drilling Fluid MUD
 Well Type SINGLE CASED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 80.50 ft.
 Type: STAINLESS

Stick Up Inner Casing: 2.78 ft Protective Casing: 3.00 ft.

Casing Grout: CEMENT/BENT Interval: 0.00 to 63.00 ft.

Seal Type: BENTONITE Interval: 63.00 to 76.00 ft.

Sand Pack Type: #3 TORPEDO Interval: 76.00 to 90.50 ft.
 Grain Size: UNIFORM Median Diameter:
 Screen Diameter: 4.00 Interval: 80.50 to 90.50 ft.
 Type: STAINLESS Slots: 0.020 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type: CUTTINGS Interval: 90.50 to 92.50 ft.

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:

90.5 - 91 feet is the cap on the end of the well. Key No. 3664.

NOTE: Well Diagram not to Scale

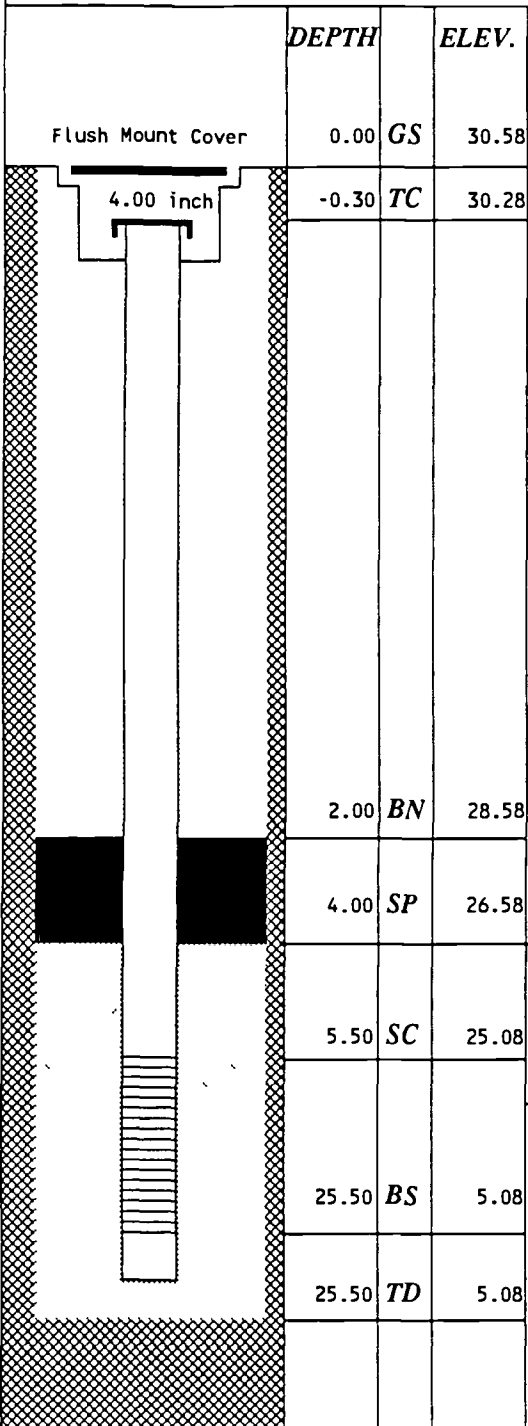
Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS **DRILLING FIRM** MC CALL BROTHERS, INC.
SITE NAME ABC DRY CLEANERS **INSPECTOR** B. JAKUB

WELL ID S-1 **WATER LEVELS**
START DATE 03/22/92
COMPLETION DATE 03/22/92



DRILLING SUMMARY
Driller CHARLIE CLAY
Drilling Fluid NONE
Well Type SINGLE CASED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch **Interval:** 0.20 to 25.50 ft.
Type: STAINLESS

Top of Inner Casing Depth: -0.30 ft.

Casing Grout: **Interval:** 0.00 to 2.00 ft.

Seal Type: BENTONITE **Interval:** 2.00 to 4.00 ft.

Sand Pack Type: #3 TORPEDO **Interval:** 4.00 to 25.50 ft.
Grain Size: UNIFORM **Median Diameter:**
Screen Diameter: 4.00 **Interval:** 5.50 to 25.50 ft.
Type: STAINLESS **Slots:** 0.010 inches

Silt Trap Interval: 0.00 to 0.00 ft.
Backfill Type: **Interval:** 0.00 to 0.00

WELL DEVELOPMENT

Date / /
Method
Yield **Purged Volume**

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
GS = Ground Surface SC = Top Screen = Seal
BN = Top Seal BS = Bottom Screen = Sand Pack
TD = Total Depth = Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT	ABC	DRILLING FIRM	MCCALL BROTHERS, INC.
SITE NAME		INSPECTOR	C. SZLUHA

WELL ID	S-2	WATER LEVELS
START DATE	03/23/92	
COMPLETION DATE	03/26/92	

	DEPTH		ELEV.	DRILLING SUMMARY	
Flush Mount Cover	0.00	GS	32.46	Driller	CHARLES CLAY
				Drilling Fluid	NONE
				Well Type	SINGLE CASED SCREENED
				WELL DESIGN CONSTRUCTION	
				Casing #1 Diameter:	4.00 inch
				Type:	STAINLESS
				Interval:	0.00 to 39.70 ft.
				Top of Inner Casing Depth:	-0.02 ft.
				Casing Grout:	CEMT/BENT
				Interval:	0.00 to 13.70 ft.
				Seal Type:	BENTONITE
				Interval:	13.70 to 17.70 ft.
				Sand Pack Type:	#3 TORPEDO
				Grain Size:	UNIFORM
				Interval:	17.70 to 39.70 ft.
				Screen Diameter:	0.00
				Interval:	19.70 to 39.70 ft.
				Type:	STAINLESS
				Slots:	0.010 inches
	13.70	BN	18.76	Silt Trap Interval:	0.00 to 0.00 ft.
	17.70	SP	14.76	Backfill Type:	NONE
				Interval:	0.00 to 0.00
				WELL DEVELOPMENT	
	19.70	SC	12.76	Date	/ /
				Method	
				Yield	
				Purged Volume	
				COMMENTS	
	39.70	BS	-7.24	TC = Top of Casing	SP = Top Sand Pack
				GS = Ground Surface	SC = Top Screen
				BN = Top Seal	BS = Bottom Screen
	39.70	TD	-7.24	TD = Total Depth	
				Additional Comments:	

NOTE: Well Diagram not to Scale Elevations are feet above mean sea level

Well Completion Summary

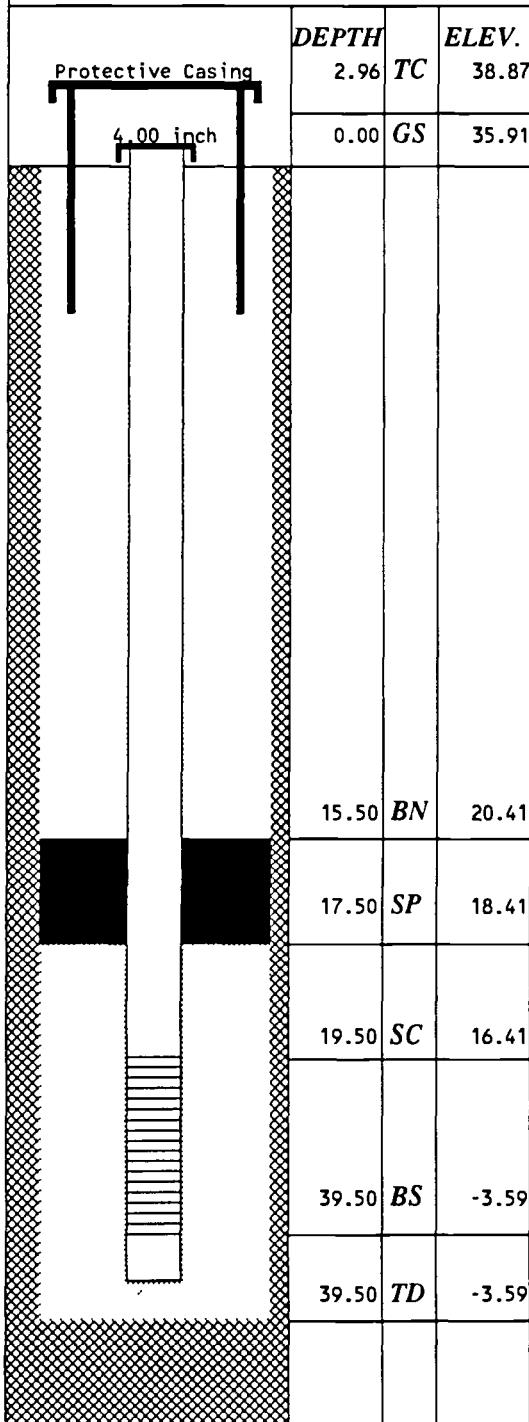
ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS
 SITE NAME ABC DRY CLEANERS

DRILLING FIRM MC CALL BROTHERS, INC.
 INSPECTOR C. SZLUHA

WELL ID S-3
 START DATE 04/02/92
 COMPLETION DATE 04/02/92

WATER LEVELS



DRILLING SUMMARY
 Driller CHARLES CLAY
 Drilling Fluid NONE
 Well Type SINGLE CASSED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 39.50 ft.
 Type: STAINLESS

Stick Up Inner Casing: 2.96 ft. Protective Casing: 6.00 ft.

Casing Grout: CEMENT Interval: 0.00 to 15.50 ft.

Seal Type: Interval: 15.50 to 17.50 ft.

Sand Pack Type: #3 TORPEDO Interval: 17.50 to 39.50 ft.
 Grain Size: UNIFORM Median Diameter:
 Screen Diameter: 0.00 Interval: 19.50 to 39.50 ft.
 Type: STAINLESS Slots: 0.010 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type: Interval: 0.00 to 0.00 ft.

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT	ABC	DRILLING FIRM	MC CALL BROTHERS, INC.
SITE NAME		INSPECTOR	C. SZLUHA

WELL ID	S-4	WATER LEVELS
START DATE	04/03/92	
COMPLETION DATE	04/03/92	

	DEPTH		ELEV.	DRILLING SUMMARY Driller CHARLES CLAY Drilling Fluid NONE Well Type SINGLE CASED SCREENED
	2.42 TC		37.05	
	0.00 GS		34.63	

	WELL DESIGN CONSTRUCTION		
	Casing #1 Diameter:	4.00 inch	Interval: 0.00 to 34.00 ft.
	Type:	STAINLESS	
	Stick Up Inner Casing:	2.42 ft.	Protective Casing: 6.00 ft.
	Casing Grout:	CEMT/BENT	Interval: 0.00 to 10.00 ft.
	Seal Type:	BENTONITE	Interval: 10.00 to 12.00 ft.
	Sand Pack Type:	#3 TORPEDO	Interval: 12.00 to 34.00 ft.
	Grain Size:	UNIFORM	Median Diameter:
Screen Diameter:	4.00	Interval: 14.00 to 34.00 ft.	
Type:	STAINLESS	Slots: 0.010 inches	
10.00 BN	24.63	Silt Trap Interval: 0.00 to 0.00 ft.	
12.00 SP	22.63	Backfill Type: NONE Interval: 0.00 to 0.00 ft.	

	WELL DEVELOPMENT		
	Date	/ /	
	Method		
14.00 SC	20.63	Yield	Purged Volume

COMMENTS			
TC = Top of Casing	SP = Top Sand Pack		= Grout
GS = Ground Surface	SC = Top Screen		= Seal
BN = Top Seal	BS = Bottom Screen		= Sand Pack
	TD = Total Depth		= Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

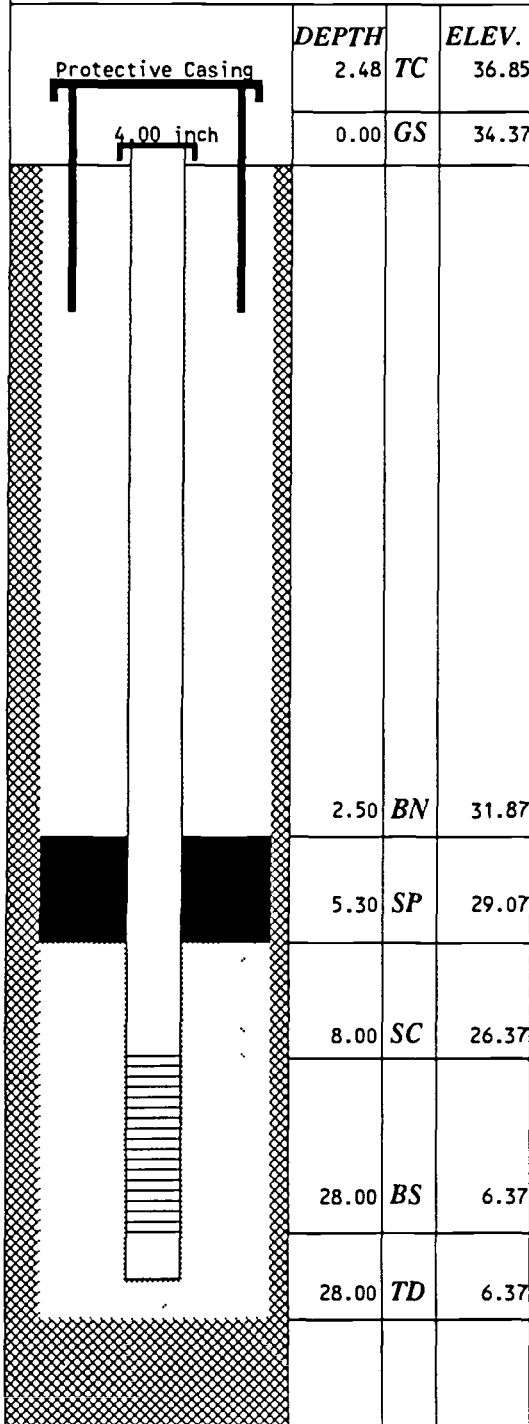
ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS
 SITE NAME ABC DRY CLEANERS

DRILLING FIRM MC CALL BROTHERS, INC.
 INSPECTOR C. SZLUHA

WELL ID S-5
 START DATE 04/01/92
 COMPLETION DATE 04/01/92

WATER LEVELS



DEPTH		ELEV.
2.48	TC	36.85
0.00	GS	34.37
2.50	BN	31.87
5.30	SP	29.07
8.00	SC	26.37
28.00	BS	6.37
28.00	TD	6.37

DRILLING SUMMARY
 Driller CHARLES CLAY
 Drilling Fluid NONE
 Well Type SINGLE CASED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 28.00 ft.
 Type :

Stick Up Inner Casing: 2.48 ft. Protective Casing: 6.00 ft.

Casing Grout: CEMENT/BENT Interval: 0.00 to 2.50 ft.

Seal Type: BENTONITE Interval: 2.50 to 5.30 ft.

Sand Pack Type : #3 TORPEDO Interval: 5.30 to 28.00 ft.
 Grain Size : UNIFORM Median Diameter:
 Screen Diameter: 4.00 Interval: 8.00 to 28.00 ft.
 Type : STAINLESS Slots: 0.010 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type : Interval: 0.00 to 0.00 ft.

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

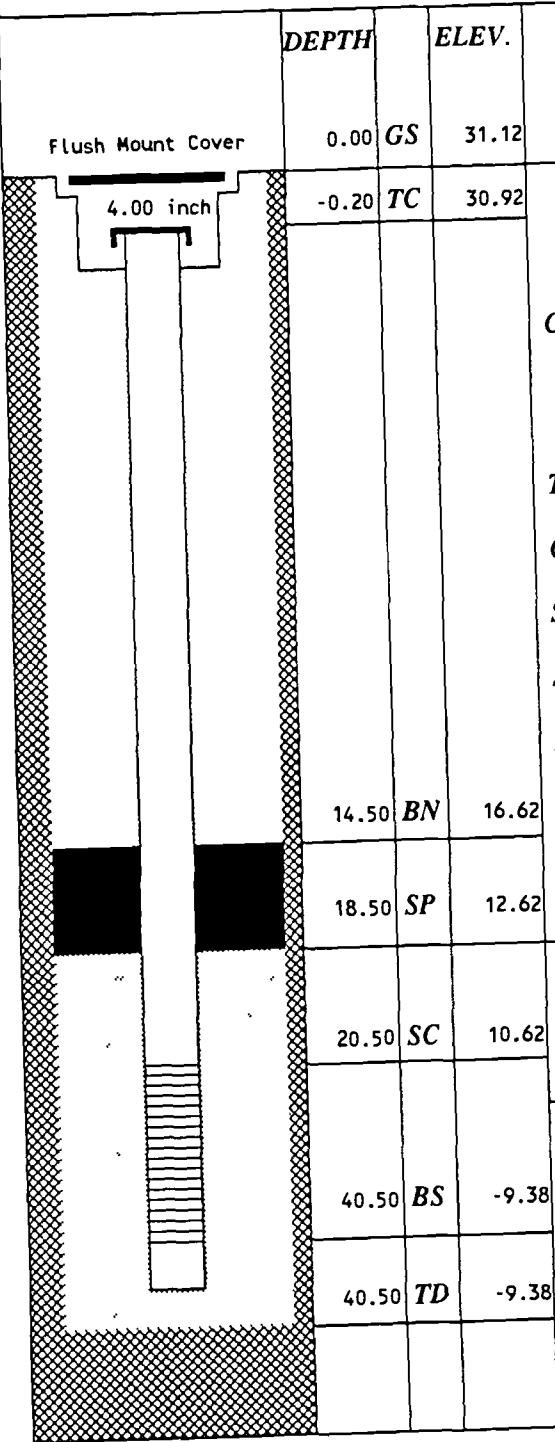
Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS DRILLING FIRM MC CALL BROTHERS, INC.
 SITE NAME ABC DRY CLEANERS INSPECTOR C. SZLUHA

WELL ID S-6
 START DATE 03/23/92
 COMPLETION DATE 03/26/92

WATER LEVELS



DRILLING SUMMARY
 Driller CHARLES CLAY
 Drilling Fluid NONE
 Well Type SINGLE CASSED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 40.50 ft.
 Type: STAINLESS

Top of Inner Casing Depth: -0.20 ft.

Casing Grout: CEMENT Interval: 0.00 to 14.50 ft.

Seal Type: BENTONITE Interval: 14.50 to 18.50 ft.

Sand Pack Type: #3 TORPEDO SAND Interval: 18.50 to 40.50 ft.
 Grain Size: UNIFORM Median Diameter:
 Screen Diameter: 4.00 Interval: 20.50 to 40.50 ft.
 Type: STAINLESS Slots: 0.010 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type: Interval: 0.00 to 0.00

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC		DRILLING FIRM MC CALL BROTHERS, INC.	
SITE NAME		INSPECTOR J. BRASWELL	
WELL ID S-7		WATER LEVELS	
START DATE 04/05/92			
COMPLETION DATE 04/05/92			
<p style="font-size: small;">Flush Mount Cover 4.00 inch</p>	DEPTH	ELEV.	DRILLING SUMMARY
	0.00 GS	31.30	Driller CHARLES CLAY
	-0.13 TC	31.17	Drilling Fluid NONE
			Well Type SINGLE CASED SCREENED
	WELL DESIGN CONSTRUCTION		
			Casing #1 Diameter: 4.00 inch Interval: 0.00 to 30.00 ft.
			Type: STAINLESS
			Top of Inner Casing Depth: -0.13 ft.
			Casing Grout: CEMENT/BENT Interval: 0.00 to 4.00 ft.
			Seal Type: BENTONITE PELLETS Interval: 4.00 to 8.00 ft.
		Sand Pack Type: SAND TORPEDO #3 Interval: 8.00 to 30.30 ft.	
		Grain Size: UNIFORM Median Diameter:	
		Screen Diameter: 4.00 Interval: 10.00 to 30.00 ft.	
		Type: STAINLESS Slots: 0.010 inches	
4.00 BN	27.30	Silt Trap Interval: 0.00 to 0.00 ft.	
8.00 SP	23.30	Backfill Type: NONE Interval: 0.00 to 0.00	
10.00 SC	21.30	WELL DEVELOPMENT	
		Date / /	
		Method	
		Yield	
		Purged Volume	
30.00 BS	1.30	COMMENTS	
0.00 TD	31.30	TC = Top of Casing SP = Top Sand Pack = Grout	
		GS = Ground Surface SC = Top Screen = Seal	
		BN = Top Seal BS = Bottom Screen = Sand Pack	
		TD = Total Depth = Formation	
Additional Comments:			
0-2 foot interval neat cement. 2-4 foot interval, 5% bentonite grout.			

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC	DRILLING FIRM MC CALL BROTHERS, INC.			
SITE NAME	INSPECTOR C. SZLUHA			
WELL ID S-8	WATER LEVELS			
START DATE 04/04/92				
COMPLETION DATE 04/04/92				
	DEPTH	ELEV.	DRILLING SUMMARY	
	0.00	GS	30.80	Driller CHARLES CLAY
	-0.21	TC	30.59	Drilling Fluid NONE
				Well Type SINGLE CASSED SCREENED
				WELL DESIGN CONSTRUCTION
				Casing #1 Diameter: 4.00 inch Interval: 0.00 to 28.00 ft.
				Type : STAINLESS
				Top of Inner Casing Depth: -0.21 ft.
				Casing Grout: CEMENT/BENT Interval: 0.00 to 2.00 ft.
				Seal Type: BENTONITE Interval: 2.00 to 6.00 ft.
			Sand Pack Type : #3 TORPEDO Interval: 6.00 to 28.00 ft.	
			Grain Size : UNIFORM	
			Screen Diameter: 4.00 Interval: 8.00 to 28.00 ft.	
			Type : STAINLESS	
			Silt Trap Interval: 0.00 to 0.00 ft.	
			Backfill Type: NONE Interval: 0.00 to 0.00	
			WELL DEVELOPMENT	
			Date / /	
			Method	
			Yield	
			Purged Volume	
			COMMENTS	
			TC = Top of Casing SP = Top Sand Pack = Grout	
			GS = Ground Surface SC = Top Screen = Seal	
			BN = Top Seal BS = Bottom Screen = Sand Pack	
			TD = Total Depth = Formation	
			Additional Comments:	

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS SITE NAME ABC DRY CLEANERS		DRILLING FIRM MC CALL BROTHERS, INC. INSPECTOR B. JAKUB		
WELL ID S-9 START DATE 03/20/92 COMPLETION DATE 03/21/92		WATER LEVELS		
<p>Flush Mount Cover 4.00 inch</p>	DEPTH	ELEV.	DRILLING SUMMARY Driller CHARLES CLAY Drilling Fluid NONE Well Type SINGLE CASED SCREENED	
	0.00 GS	32.74	WELL DESIGN CONSTRUCTION Casing #1 Diameter: 4.00 inch Interval: 0.00 to 28.30 ft. Type : STAINLESS Top of Inner Casing Depth: -0.28 ft. Casing Grout: CEMENT Interval: 0.00 to 2.00 ft. Seal Type: BENTONITE Interval: 2.00 to 6.00 ft. Sand Pack Type : TORPEDO 3 Interval: 6.00 to 28.30 ft. Grain Size : UNIFORM Median Diameter: Screen Diameter: 4.00 Interval: 8.00 to 28.00 ft. Type : Slots: 0.010 inches Silt Trap Interval: 0.00 to 0.00 ft. Backfill Type: Interval: 0.00 to 0.00	
	-0.28 TC	32.46		
	2.00 BN	30.74		
	6.00 SP	26.74		
	8.00 SC	24.74		
	28.00 BS	4.74		
	28.30 TD	4.44		
				WELL DEVELOPMENT Date / / Method Yield Purged Volume
			COMMENTS TC = Top of Casing SP = Top Sand Pack = Grout GS = Ground Surface SC = Top Screen = Seal BN = Top Seal BS = Bottom Screen = Sand Pack TD = Total Depth = Formation	
			Additional Comments:	

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

Well Completion Summary

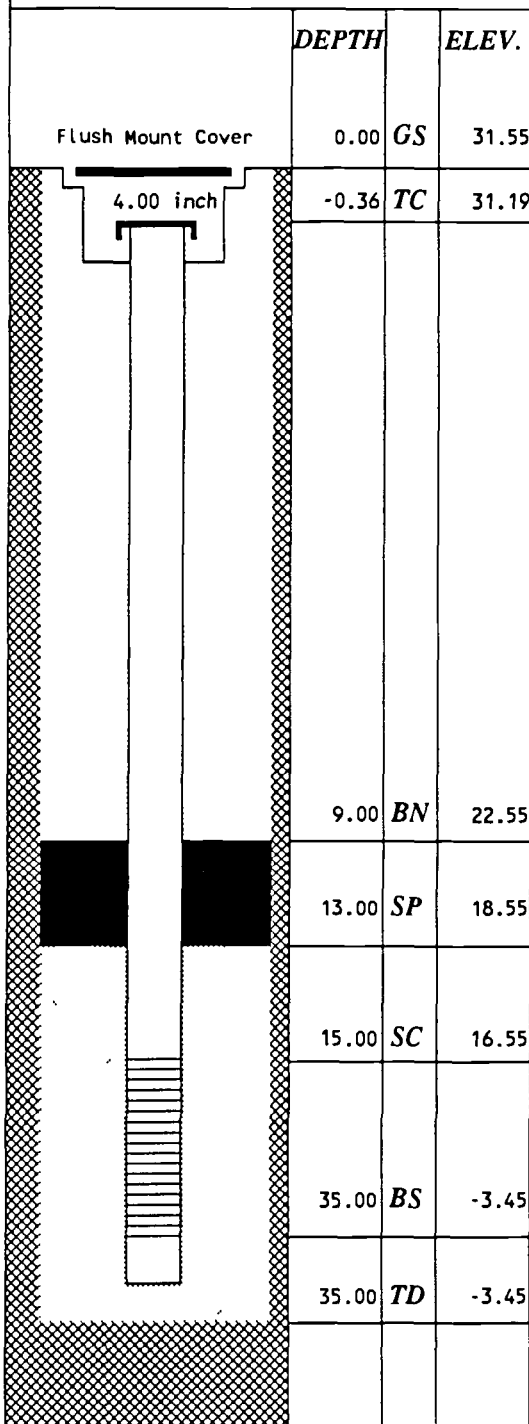
ROY F. WESTON, Inc.

CLIENT ABC DRY CLEANERS
 SITE NAME EBC DRY CLEANERS

DRILLING FIRM MC CALL BROTHERS, INC.
 INSPECTOR B. JAKUB, C. SZLUHA

WELL ID S-10
 START DATE 03/19/92
 COMPLETION DATE 03/19/92

WATER LEVELS



DRILLING SUMMARY

Driller CHARLES CLAY
 Drilling Fluid NONE
 Well Type SINGLE CASED SCREENED

WELL DESIGN CONSTRUCTION

Casing #1 Diameter: 4.00 inch Interval: 0.00 to 35.00 ft.
 Type: STAINLESS

Top of Inner Casing Depth: -0.36 ft.

Casing Grout: CEMENT/BENT Interval: 0.00 to 9.00 ft.

Seal Type: BENTONITE Interval: 9.00 to 13.00 ft.

Sand Pack Type: TORPEDO #3 Interval: 13.00 to 35.00 ft.
 Grain Size: UNIFORM Median Diameter:
 Screen Diameter: 4.00 Interval: 15.00 to 35.00 ft.
 Type: STAINLESS Slots: 0.010 inches

Silt Trap Interval: 0.00 to 0.00 ft.
 Backfill Type: Interval: 0.00 to 0.00

WELL DEVELOPMENT

Date / /
 Method
 Yield Purged Volume

COMMENTS

TC = Top of Casing SP = Top Sand Pack = Grout
 GS = Ground Surface SC = Top Screen = Seal
 BN = Top Seal BS = Bottom Screen = Sand Pack
 TD = Total Depth = Formation

Additional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

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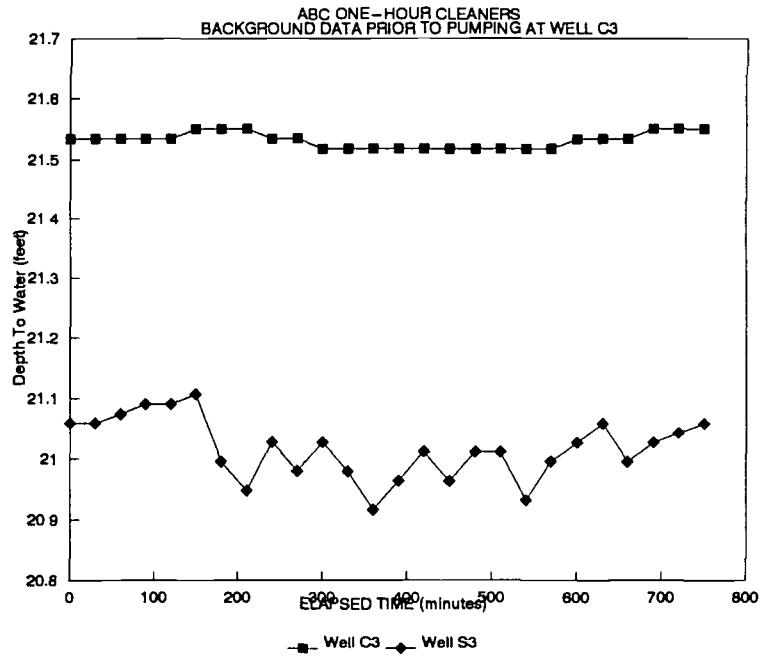
Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix A
Revision: 1
Date: November 1992

PUMP TEST DATA

TABLE A-1
BACKGROUND DATA PRIOR TO PUMPING AT C3

SE1000C
Environmental Logger
Unit# 01573
Data downloaded: 06/04 14:44

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	00033	00203
Reference	21.550	21.060
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50



Background data prior to pumping at C3

Test 1, Step 1

Started at 06/02/92, 20:43:23

Elapsed Time (min)	Well C3		Well S3	
	INPUT 1 (feet)	INPUT 2 (feet)	Delta Water Level (feet)	Delta Water Level (feet)
0.0000	21.534	21.060	0.016	0.000
30.0000	21.534	21.060	0.016	0.000
60.0000	21.534	21.075	0.016	-0.015
90.0000	21.534	21.091	0.016	-0.031
120.0000	21.534	21.091	0.016	-0.031
150.0000	21.550	21.107	0.000	-0.047
180.0000	21.550	20.996	0.000	0.064
210.0000	21.550	20.948	0.000	0.112
240.0000	21.534	21.028	0.016	0.032
270.0000	21.534	20.980	0.016	0.080
300.0000	21.518	21.028	0.032	0.032
330.0000	21.518	20.980	0.032	0.080
360.0000	21.518	20.916	0.032	0.144
390.0000	21.518	20.964	0.032	0.096
420.0000	21.518	21.012	0.032	0.048
450.0000	21.518	20.964	0.032	0.096
480.0000	21.518	21.012	0.032	0.048
510.0000	21.518	21.012	0.032	0.048
540.0000	21.518	20.932	0.032	0.128
570.0000	21.518	20.996	0.032	0.064
600.0000	21.534	21.028	0.016	0.032
630.0000	21.534	21.060	0.016	0.000
660.0000	21.534	20.996	0.016	0.064
690.0000	21.550	21.028	0.000	0.032
720.0000	21.550	21.044	0.000	0.016
750.0000	21.550	21.060	0.000	0.000

TABLE A-2
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL C3

SE1000C
 Environmental Logger
 Unit# 01573
 Data downloaded: 06/04 14:48

Type Mode I.D.	Level (F) TOC 00033	Level (F) TOC 00203
Reference	21.590	21.100
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50

Drawdown data, 1st step pummping, well C3
 Test 1, Step 0
 Started at 06/03/92, 12:25:44

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.0000	21.590	21.100	NA	NA	NA
0.0033	21.590	21.100	NA	NA	NA
0.0066	21.590	21.100	NA	NA	NA
0.0100	21.605	21.115	NA	NA	NA
0.0133	21.605	21.100	NA	NA	NA
0.0166	21.590	21.100	NA	NA	NA
0.0200	21.590	21.100	NA	NA	NA
0.0233	21.605	21.115	NA	NA	NA
0.0266	21.605	21.100	NA	NA	NA
0.0300	21.590	21.100		0.0000	0.000
0.0333	21.605	21.100		0.0033	0.015
0.0500	22.433	21.100		0.0200	0.843
0.0666	21.653	21.100		0.0366	0.063
0.0833	21.796	21.100		0.0533	0.206
0.1000	21.924	21.100		0.0700	0.334
0.1166	22.019	21.100		0.0866	0.429
0.1333	22.098	21.100		0.1033	0.508
0.1500	22.242	21.100		0.1200	0.652
0.1666	22.305	21.100		0.1366	0.715
0.1833	22.385	21.100		0.1533	0.795
0.2000	22.480	21.100		0.1700	0.890
0.2166	22.576	21.100		0.1866	0.986
0.2333	22.687	21.100		0.2033	1.097
0.2500	22.798	21.100		0.2200	1.208
0.2666	22.862	21.100		0.2366	1.272
0.2833	22.958	21.100		0.2533	1.368
0.3000	23.037	21.100		0.2700	1.447
0.3166	23.085	21.100		0.2866	1.495
0.3333	23.196	21.100		0.3033	1.606
0.4166	23.514	21.100		0.3866	1.924
0.5000	23.848	21.100		0.4700	2.258
0.5833	24.151	21.100		0.5533	2.561
0.6666	24.437	21.100		0.6366	2.847

TABLE A-2 (continued)
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	24.676	21.115	0.7200	3.0860	0.0150
0.8333	24.978	21.100	0.8033	3.3880	0.0000
0.9166	25.185	21.100	0.8866	3.5950	0.0000
1.0000	25.423	21.100	0.9700	3.8330	0.0000
1.0833	25.598	21.100	1.0533	4.0080	0.0000
1.1666	25.757	21.100	1.1366	4.1670	0.0000
1.2500	25.933	21.100	1.2200	4.3430	0.0000
1.3333	26.028	21.100	1.3033	4.4380	0.0000
1.4166	26.203	21.100	1.3866	4.6130	0.0000
1.5000	26.362	21.100	1.4700	4.7720	0.0000
1.5833	26.505	21.115	1.5533	4.9150	0.0150
1.6666	26.600	21.100	1.6366	5.0100	0.0000
1.7500	26.744	21.115	1.7200	5.1540	0.0150
1.8333	26.903	21.100	1.8033	5.3130	0.0000
1.9166	26.998	21.100	1.8866	5.4080	0.0000
2.0000	27.173	21.100	1.9700	5.5830	0.0000
2.5000	27.905	21.100	2.4700	6.3150	0.0000
3.0000	28.493	21.115	2.9700	6.9030	0.0150
3.5000	29.018	21.115	3.4700	7.4280	0.0150
4.0000	29.495	21.115	3.9700	7.9050	0.0150
4.5000	29.941	21.115	4.4700	8.3510	0.0150
5.0000	30.339	21.115	4.9700	8.7490	0.0150
5.5000	30.657	21.115	5.4700	9.0670	0.0150
6.0000	30.943	21.115	5.9700	9.3530	0.0150
6.5000	31.293	21.115	6.4700	9.7030	0.0150
7.0000	31.532	21.115	6.9700	9.9420	0.0150
7.5000	31.834	21.115	7.4700	10.2440	0.0150
8.0000	32.136	21.115	7.9700	10.5460	0.0150
8.5000	32.343	21.115	8.4700	10.7530	0.0150
9.0000	32.724	21.115	8.9700	11.1340	0.0150
9.5000	32.899	21.115	9.4700	11.3090	0.0150
10.0000	33.186	21.115	9.9700	11.5960	0.0150
12.0000	33.917	21.147	11.9700	12.3270	0.0470
14.0000	34.522	21.147	13.9700	12.9320	0.0470
16.0000	35.110	21.147	15.9700	13.5200	0.0470
18.0000	35.842	21.163	17.9700	14.2520	0.0630
20.0000	36.367	21.147	19.9700	14.7770	0.0470
22.0000	36.796	21.147	21.9700	15.2060	0.0470
24.0000	37.178	21.147	23.9700	15.5880	0.0470
26.0000	37.527	21.163	25.9700	15.9370	0.0630
28.0000	37.782	21.131	27.9700	16.1920	0.0310
30.0000	38.005	21.147	29.9700	16.4150	0.0470
32.0000	38.625	21.163	31.9700	17.0350	0.0630
34.0000	39.213	21.163	33.9700	17.6230	0.0630
36.0000	39.531	21.163	35.9700	17.9410	0.0630
38.0000	39.674	21.163	37.9700	18.0840	0.0630
40.0000	39.595	21.163	39.9700	18.0050	0.0630
42.0000	39.531	21.147	41.9700	17.9410	0.0470
44.0000	39.658	21.163	43.9700	18.0680	0.0630
46.0000	39.706	21.131	45.9700	18.1160	0.0310

TABLE A-2 (continued)
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
48.0000	39.897	21.131	47.9700	18.3070	0.0310
50.0000	39.992	21.147	49.9700	18.4020	0.0470
52.0000	40.040	21.147	51.9700	18.4500	0.0470
54.0000	40.215	21.163	53.9700	18.6250	0.0630
56.0000	40.342	21.163	55.9700	18.7520	0.0630
58.0000	40.056	21.163	57.9700	18.4660	0.0630
60.0000	40.422	21.163	59.9700	18.8320	0.0630
62.0000	40.708	21.163	61.9700	19.1180	0.0630
64.0000	40.915	21.163	63.9700	19.3250	0.0630
66.0000	41.090	21.163	65.9700	19.5000	0.0630
68.0000	41.185	21.163	67.9700	19.5950	0.0630
70.0000	41.265	21.163	69.9700	19.6750	0.0630
72.0000	41.328	21.147	71.9700	19.7380	0.0470
74.0000	41.455	21.147	73.9700	19.8650	0.0470
76.0000	41.503	21.147	75.9700	19.9130	0.0470
78.0000	41.710	21.163	77.9700	20.1200	0.0630
80.0000	41.885	21.179	79.9700	20.2950	0.0790
82.0000	41.821	21.179	81.9700	20.2310	0.0790
84.0000	41.964	21.179	83.9700	20.3740	0.0790
86.0000	42.028	21.179	85.9700	20.4380	0.0790
88.0000	42.123	21.179	87.9700	20.5330	0.0790
90.0000	42.075	21.179	89.9700	20.4850	0.0790
92.0000	42.075	21.179	91.9700	20.4850	0.0790
94.0000	42.091	21.179	93.9700	20.5010	0.0790
96.0000	42.028	21.163	95.9700	20.4380	0.0630
98.0000	42.123	21.163	97.9700	20.5330	0.0630
100.0000	42.187	21.163	99.9700	20.5970	0.0630
110.0000	42.394	21.179	109.9700	20.8040	0.0790
120.0000	42.902	21.147	119.9700	21.3120	0.0470
130.0000	42.966	21.179	129.9700	21.3760	0.0790
140.0000	43.284	21.163	139.9700	21.6940	0.0630
150.0000	43.427	21.147	149.9700	21.8370	0.0470
160.0000	43.602	21.163	159.9700	22.0120	0.0630

TABLE A-3
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL C3

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{(1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)\})]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$ with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 4.0 gpm

s_f = 43.602 feet

s_i = 21.590 feet

s = 22.012 feet

$(Q/s)_p$ = 0.182 gpm/ft

L = 10 feet

r = 2 inches
 0.167 feet

B = 20 feet

Q/s = 0.225 gpm/ft

TABLE A-3 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL C3

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est} t / r^2 S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 0.225 gpm/ft

T_{est} = 47 gpd/ft

t = 120 minutes
 = 0.083 days

r = 2 inches
 0.167 feet

S = 0.001

T = 275 gpd/ft
 37 ft²/day
 3.95E-01 cm²/sec

TABLE A-3 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPPING, WELL C3

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 37 ft²/day

$B =$ 20 feet

$k =$ 1.84 ft/day
 = 6.48E-04 cm/sec
 = 6.48E-06 m/sec

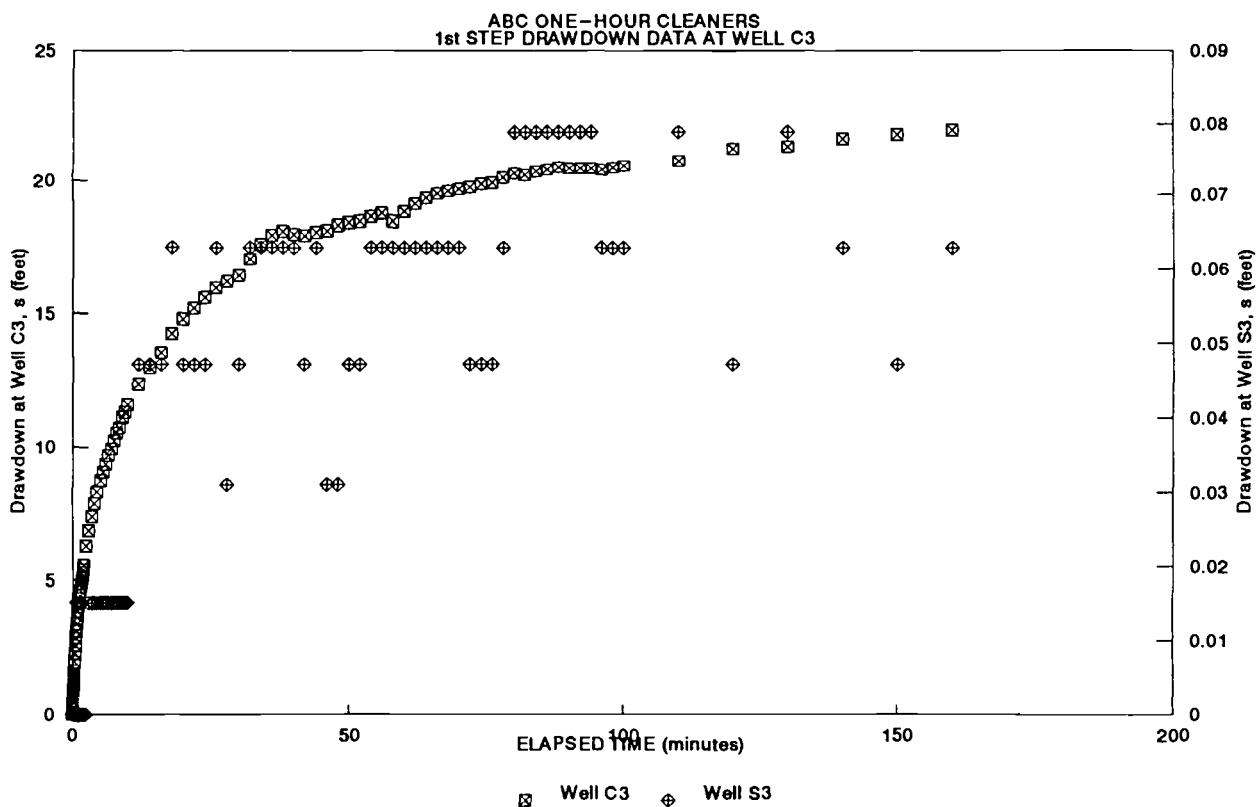


TABLE A-4
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL C3

SE1000C
 Environmental Logger
 Unit# 01573
 Data downloaded: 06/04 14:51

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	00033	00203
Reference	21.590	21.100
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50

Drawdown data, 2nd step pummping, well C3

Test 1, Step 1

Started at 06/03/92, 15:09:44

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3	Well S3
				Delta Water Level (feet)	Delta Water Level (feet)
0.0000	43.586	21.131	NA	NA	NA
0.0033	43.586	21.147	NA	NA	NA
0.0066	43.538	21.147	NA	NA	NA
0.0100	43.538	21.147	NA	NA	NA
0.0133	43.554	21.147	NA	NA	NA
0.0166	43.523	21.147	NA	NA	NA
0.0200	43.554	21.147	NA	NA	NA
0.0233	43.538	21.147	NA	NA	NA
0.0266	43.538	21.147	0.0000	0.000	0.000
0.0300	43.507	21.147	0.0034	-0.031	0.000
0.0333	43.554	21.147	0.0067	0.016	0.000
0.0500	43.618	21.147	0.0234	0.080	0.000
0.0666	43.602	21.131	0.0400	0.064	-0.016
0.0833	43.618	21.147	0.0567	0.080	0.000
0.1000	43.650	21.147	0.0734	0.112	0.000
0.1166	43.729	21.147	0.0900	0.191	0.000
0.1333	43.713	21.147	0.1067	0.175	0.000
0.1500	43.809	21.147	0.1234	0.271	0.000
0.1666	43.841	21.147	0.1400	0.303	0.000
0.1833	43.872	21.147	0.1567	0.334	0.000
0.2000	43.888	21.147	0.1734	0.350	0.000
0.2166	43.952	21.147	0.1900	0.414	0.000
0.2333	43.968	21.147	0.2067	0.430	0.000
0.2500	44.031	21.131	0.2234	0.493	-0.016
0.2666	44.063	21.147	0.2400	0.525	0.000
0.2833	44.063	21.147	0.2567	0.525	0.000
0.3000	44.143	21.147	0.2734	0.605	0.000
0.3166	44.159	21.147	0.2900	0.621	0.000
0.3333	44.174	21.147	0.3067	0.636	0.000
0.4166	44.397	21.147	0.3900	0.859	0.000
0.5000	44.540	21.147	0.4734	1.002	0.000
0.5833	44.747	21.147	0.5567	1.209	0.000
0.6666	44.826	21.147	0.6400	1.288	0.000

TABLE A-4 (continued)
 DRAWDOWN DATA, 2ND STEP PUMPPING, WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	44.985	21.147	0.7234	1.4470	0.0000
0.8333	45.113	21.147	0.8067	1.5750	0.0000
0.9166	45.335	21.131	0.8900	1.7970	-0.0160
1.0000	45.542	21.147	0.9734	2.0040	0.0000
1.0833	45.669	21.147	1.0567	2.1310	0.0000
1.1666	45.844	21.147	1.1400	2.3060	0.0000
1.2500	45.987	21.147	1.2234	2.4490	0.0000
1.3333	46.130	21.147	1.3067	2.5920	0.0000
1.4166	46.289	21.147	1.3900	2.7510	0.0000
1.5000	46.607	21.147	1.4734	3.0690	0.0000
1.5833	46.941	21.147	1.5567	3.4030	0.0000
1.6666	47.307	21.147	1.6400	3.7690	0.0000
1.7500	47.609	21.147	1.7234	4.0710	0.0000
1.8333	47.848	21.147	1.8067	4.3100	0.0000
1.9166	48.117	21.147	1.8900	4.5790	0.0000
2.0000	48.420	21.147	1.9734	4.8820	0.0000
2.5000	49.819	21.147	2.4734	6.2810	0.0000
3.0000	50.979	21.147	2.9734	7.4410	0.0000
3.5000	51.981	21.147	3.4734	8.4430	0.0000
4.0000	52.696	21.147	3.9734	9.1580	0.0000
4.5000	53.396	21.147	4.4734	9.8580	0.0000
5.0000	53.857	21.004	4.9734	10.3190	-0.1430
5.5000	54.461	21.020	5.4734	10.9230	-0.1270
6.0000	54.747	21.036	5.9734	11.2090	-0.1110
6.5000	55.351	21.036	6.4734	11.8130	-0.1110
7.0000	55.892	21.036	6.9734	12.3540	-0.1110
7.5000	56.400	21.052	7.4734	12.8620	-0.0950
8.0000	56.718	21.052	7.9734	13.1800	-0.0950
8.5000	57.052	21.052	8.4734	13.5140	-0.0950
9.0000	57.513	21.052	8.9734	13.9750	-0.0950
9.5000	57.815	21.052	9.4734	14.2770	-0.0950
10.0000	58.371	21.052	9.9734	14.8330	-0.0950
12.0000	59.643	21.084	11.9734	16.1050	-0.0630
14.0000	60.358	21.084	13.9734	16.8200	-0.0630
16.0000	60.835	21.084	15.9734	17.2970	-0.0630
18.0000	61.201	21.084	17.9734	17.6630	-0.0630
20.0000	61.852	21.084	19.9734	18.3140	-0.0630
22.0000	63.187	21.084	21.9734	19.6490	-0.0630
24.0000	63.918	21.084	23.9734	20.3800	-0.0630
26.0000	64.268	21.100	25.9734	20.7300	-0.0470
28.0000	64.634	21.084	27.9734	21.0960	-0.0630
30.0000	64.951	21.084	29.9734	21.4130	-0.0630
32.0000	65.110	21.100	31.9734	21.5720	-0.0470
34.0000	64.983	21.100	33.9734	21.4450	-0.0470
36.0000	64.920	21.100	35.9734	21.3820	-0.0470
38.0000	65.190	21.100	37.9734	21.6520	-0.0470
40.0000	65.381	21.100	39.9734	21.8430	-0.0470
42.0000	65.571	21.084	41.9734	22.0330	-0.0630
44.0000	65.842	21.100	43.9734	22.3040	-0.0470
46.0000	65.905	21.100	45.9734	22.3670	-0.0470

TABLE A-4 (continued)
 DRAWDOWN DATA, 2ND STEP PUMPPING, WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
48.0000	66.159	21.115	47.9734	22.6210	-0.0320
50.0000	66.334	21.115	49.9734	22.7960	-0.0320
52.0000	66.445	21.100	51.9734	22.9070	-0.0470
54.0000	66.541	21.115	53.9734	23.0030	-0.0320
56.0000	66.684	21.100	55.9734	23.1460	-0.0470
58.0000	66.779	21.100	57.9734	23.2410	-0.0470
60.0000	66.843	21.115	59.9734	23.3050	-0.0320
62.0000	66.716	21.115	61.9734	23.1780	-0.0320
64.0000	66.747	21.115	63.9734	23.2090	-0.0320
66.0000	66.747	21.115	65.9734	23.2090	-0.0320
68.0000	66.890	21.100	67.9734	23.3520	-0.0470
70.0000	67.002	21.115	69.9734	23.4640	-0.0320
72.0000	67.113	21.115	71.9734	23.5750	-0.0320
74.0000	67.129	21.100	73.9734	23.5910	-0.0470
76.0000	67.176	21.100	75.9734	23.6380	-0.0470
78.0000	67.224	21.100	77.9734	23.6860	-0.0470
80.0000	67.320	21.115	79.9734	23.7820	-0.0320
82.0000	67.256	21.131	81.9734	23.7180	-0.0160
84.0000	67.304	21.131	83.9734	23.7660	-0.0160
86.0000	67.478	21.115	85.9734	23.9400	-0.0320
88.0000	67.733	21.131	87.9734	24.1950	-0.0160
90.0000	67.923	21.131	89.9734	24.3850	-0.0160
92.0000	68.035	21.131	91.9734	24.4970	-0.0160
94.0000	67.812	21.115	93.9734	24.2740	-0.0320
96.0000	67.574	21.131	95.9734	24.0360	-0.0160
98.0000	67.526	21.131	97.9734	23.9880	-0.0160
100.0000	67.558	21.131	99.9734	24.0200	-0.0160
110.0000	67.796	21.131	109.9734	24.2580	-0.0160
120.0000	67.796	21.147	119.9734	24.2580	0.0000

TABLE A-5
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL C3

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$, with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 7.1 gpm

s_f = 67.796 feet

s_i = 21.590 feet

s = 46.206 feet

$(Q/s)_p$ = 0.154 gpm/ft

L = 10 feet

r = 2 inches
 0.167 feet

B = 20 feet

Q/s = 0.190 gpm/ft

TABLE A-5 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL C3

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est} t / r^2 S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 0.190 gpm/ft

T_{est} = 47 gpd/ft

t = 120 minutes
 = 0.083 days

r = 2 inches
 0.167 feet

S = 0.001

T = 232 gpd/ft
 31 ft²/day
 3.34E-01 cm²/sec

TABLE A-5 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMPPING, WELL C3

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft^2/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 31 ft^2/day

$B =$ 20 feet

$k =$ 1.55 ft/day
 = 5.48E-04 cm/sec
 = 5.48E-06 m/sec

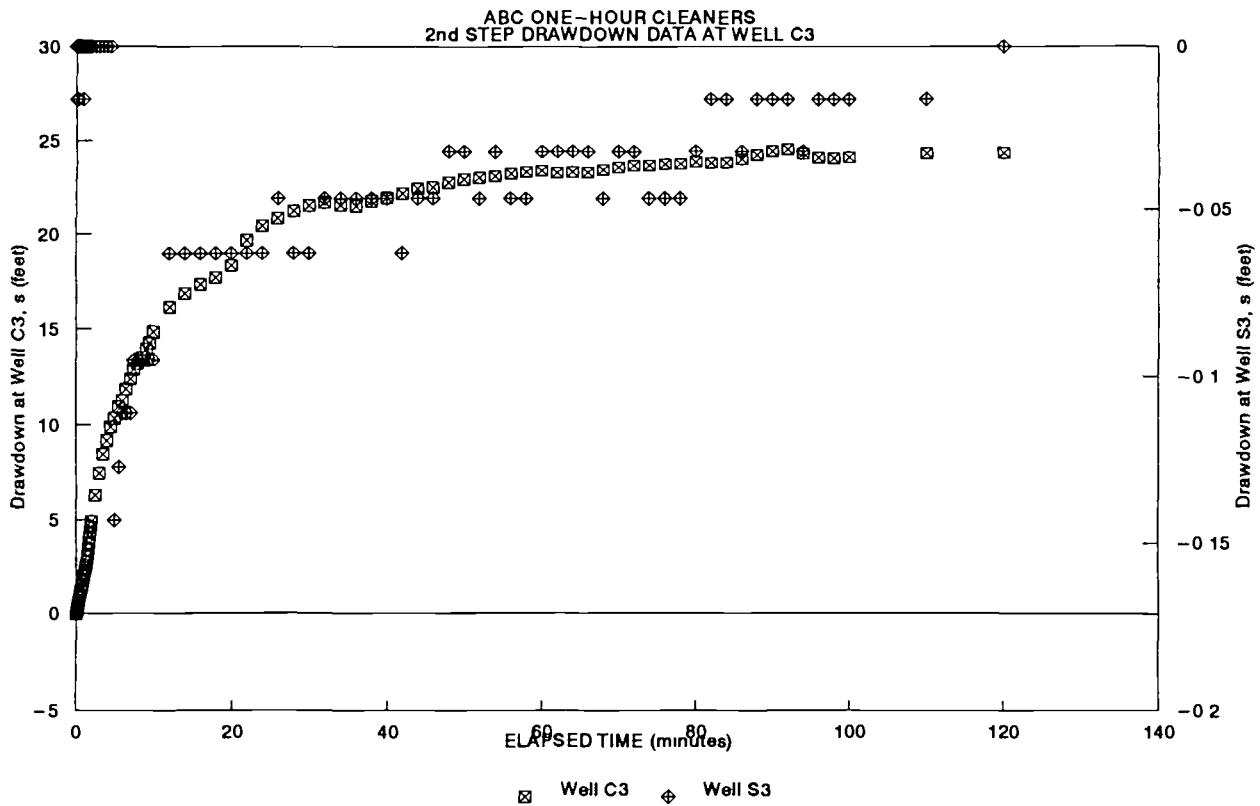


TABLE A-6
RECOVERY DATA FROM PUMPING OF WELL C3

SE1000C
Environmental Logger
Unit# 01573
Data downloaded: 06/04 14:54

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	00033	00203
Reference	21.590	21.100
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50.000	50.000

Recovery Data from pumping of well C3 ET for final pumping step = 120 minutes
Test 1, Step 2
Started at 06/03/92, 17:10:43

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.0000	67.828	21.131	NA	NA	NA	NA
0.0033	67.876	21.131	NA	NA	NA	NA
0.0066	67.844	21.131	NA	NA	NA	NA
0.0100	67.828	21.131	NA	NA	NA	NA
0.0133	67.892	21.131	NA	NA	NA	NA
0.0166	67.828	21.131	NA	NA	NA	NA
0.0200	67.876	21.131	NA	NA	NA	NA
0.0233	67.876	21.131	NA	NA	NA	NA
0.0266	67.860	21.131	NA	NA	NA	NA
0.0300	67.844	21.131	NA	NA	NA	NA
0.0333	67.876	21.131	0.0000	NA	-46.286	-0.031
0.0500	67.558	21.131	0.0167	3.85653	-45.968	-0.031
0.0666	67.717	21.131	0.0333	3.55686	-46.127	-0.031
0.0833	67.526	21.131	0.0500	3.38039	-45.936	-0.031
0.1000	67.335	21.131	0.0667	3.25530	-45.745	-0.031
0.1166	67.176	21.131	0.0833	3.15884	-45.586	-0.031
0.1333	67.002	21.131	0.1000	3.07954	-45.412	-0.031
0.1500	66.827	21.131	0.1167	3.01253	-45.237	-0.031
0.1666	66.652	21.131	0.1333	2.95483	-45.062	-0.031
0.1833	66.493	21.131	0.1500	2.90363	-44.903	-0.031
0.2000	66.318	21.131	0.1667	2.85785	-44.728	-0.031
0.2166	66.143	21.131	0.1833	2.81668	-44.553	-0.031
0.2333	65.985	21.131	0.2000	2.77887	-44.395	-0.031
0.2500	65.826	21.131	0.2167	2.74411	-44.236	-0.031
0.2666	65.667	21.131	0.2333	2.71211	-44.077	-0.031
0.2833	65.492	21.131	0.2500	2.68215	-43.902	-0.031
0.3000	65.333	21.131	0.2667	2.65412	-43.743	-0.031
0.3166	65.158	21.131	0.2833	2.62796	-43.568	-0.031
0.3333	64.999	21.131	0.3000	2.60314	-43.409	-0.031
0.4166	64.189	21.131	0.3833	2.49703	-42.599	-0.031
0.5000	63.378	21.131	0.4667	2.41183	-41.788	-0.031
0.5833	62.520	21.131	0.5500	2.34080	-40.930	-0.031
0.6666	61.757	21.131	0.6333	2.27986	-40.167	-0.031

TABLE A-6 (continued)
 RECOVERY DATA FROM PUMPING OF WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	60.994	21.131	0.7167	2.22643	-39.404	-0.031
0.8333	60.247	21.131	0.8000	2.17898	-38.657	-0.031
0.9166	59.500	21.131	0.8833	2.13626	-37.910	-0.031
1.0000	58.769	21.131	0.9667	2.09737	-37.179	-0.031
1.0833	58.053	21.131	1.0500	2.06178	-36.463	-0.031
1.1666	57.354	21.131	1.1333	2.02892	-35.764	-0.031
1.2500	56.655	21.115	1.2167	1.99838	-35.065	-0.015
1.3333	55.971	21.131	1.3000	1.96992	-34.381	-0.031
1.4166	55.304	21.131	1.3833	1.94324	-33.714	-0.031
1.5000	54.636	21.131	1.4667	1.91812	-33.046	-0.031
1.5833	53.968	21.131	1.5500	1.89442	-32.378 *	-0.031
1.6666	53.126	21.131	1.6333	1.87199	-31.536 *	-0.031
1.7500	52.712	21.131	1.7167	1.85066	-31.122 *	-0.031
1.8333	52.076	21.131	1.8000	1.83037	-30.486 *	-0.031
1.9166	51.472	21.131	1.8833	1.81102	-29.882 *	-0.031
2.0000	50.868	21.131	1.9667	1.79250	-29.278 *	-0.031
2.5000	47.529	21.131	2.4667	1.69590	-25.939 *	-0.031
3.0000	44.445	21.131	2.9667	1.61751	-22.855 *	-0.031
3.5000	41.599	21.131	3.4667	1.55163	-20.009 *	-0.031
4.0000	39.118	21.131	3.9667	1.49488	-17.528 *	-0.031
4.5000	36.891	21.115	4.4667	1.44507	-15.301 *	-0.015
5.0000	34.935	21.131	4.9667	1.40073	-13.345 *	-0.031
5.5000	33.186	21.131	5.4667	1.36080	-11.596 *	-0.031
6.0000	31.643	21.131	5.9667	1.32452	-10.053 *	-0.031
6.5000	30.291	21.131	6.4667	1.29129	-8.701 *	-0.031
7.0000	29.114	21.131	6.9667	1.26066	-7.524 *	-0.031
7.5000	28.080	21.131	7.4667	1.23227	-6.490 *	-0.031
8.0000	27.189	21.131	7.9667	1.20582	-5.599 *	-0.031
8.5000	26.410	21.131	8.4667	1.18108	-4.820 *	-0.031
9.0000	25.725	21.131	8.9667	1.15784	-4.135	-0.031
9.5000	25.137	21.131	9.4667	1.13596	-3.547	-0.031
10.0000	24.628	21.131	9.9667	1.11528	-3.038	-0.031
12.0000	23.212	21.147	11.9667	1.04249	-1.622	-0.047
14.0000	22.417	21.131	13.9667	0.98190	-0.827	-0.031
16.0000	21.924	21.131	15.9667	0.93022	-0.334	-0.031
18.0000	21.796	21.147	17.9667	0.88531	-0.206	-0.047
20.0000	21.764	21.147	19.9667	0.84572	-0.174	-0.047
22.0000	21.748	21.147	21.9667	0.81042	-0.158	-0.047
24.0000	21.748	21.147	23.9667	0.77865	-0.158	-0.047
26.0000	21.733	21.147	25.9667	0.74984	-0.143	-0.047
28.0000	21.733	21.147	27.9667	0.72352	-0.143	-0.047
30.0000	21.733	21.147	29.9667	0.69936	-0.143	-0.047
32.0000	21.717	21.147	31.9667	0.67705	-0.127	-0.047
34.0000	21.701	21.147	33.9667	0.65637	-0.111	-0.047
36.0000	21.701	21.147	35.9667	0.63713	-0.111	-0.047
38.0000	21.701	21.147	37.9667	0.61916	-0.111	-0.047
40.0000	21.685	21.147	39.9667	0.60233	-0.095	-0.047
42.0000	21.701	21.147	41.9667	0.58652	-0.111	-0.047
44.0000	21.685	21.147	43.9667	0.57163	-0.095	-0.047
46.0000	21.685	21.147	45.9667	0.55758	-0.095	-0.047

TABLE A-6 (continued)
 RECOVERY DATA FROM PUMPING OF WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
48.0000	21.685	21.147	47.9667	0.54428	-0.095	-0.047
50.0000	21.669	21.147	49.9667	0.53168	-0.079	-0.047
52.0000	21.669	21.147	51.9667	0.51972	-0.079	-0.047
54.0000	21.669	21.147	53.9667	0.50834	-0.079	-0.047
56.0000	21.669	21.147	55.9667	0.49750	-0.079	-0.047
58.0000	21.669	21.147	57.9667	0.48716	-0.079	-0.047
60.0000	21.669	21.147	59.9667	0.47728	-0.079	-0.047
62.0000	21.669	21.147	61.9667	0.46783	-0.079	-0.047
64.0000	21.653	21.147	63.9667	0.45879	-0.063	-0.047
66.0000	21.653	21.147	65.9667	0.45011	-0.063	-0.047
68.0000	21.653	21.147	67.9667	0.44178	-0.063	-0.047
70.0000	21.653	21.147	69.9667	0.43379	-0.063	-0.047
72.0000	21.653	21.147	71.9667	0.42609	-0.063	-0.047
74.0000	21.637	21.147	73.9667	0.41869	-0.047	-0.047
76.0000	21.637	21.147	75.9667	0.41156	-0.047	-0.047
78.0000	21.653	21.147	77.9667	0.40468	-0.063	-0.047
80.0000	21.637	21.147	79.9667	0.39805	-0.047	-0.047
82.0000	21.637	21.147	81.9667	0.39164	-0.047	-0.047
84.0000	21.637	21.147	83.9667	0.38545	-0.047	-0.047
86.0000	21.637	21.147	85.9667	0.37947	-0.047	-0.047
88.0000	21.637	21.147	87.9667	0.37368	-0.047	-0.047
90.0000	21.637	21.147	89.9667	0.36807	-0.047	-0.047
92.0000	21.637	21.147	91.9667	0.36264	-0.047	-0.047
94.0000	21.637	21.147	93.9667	0.35737	-0.047	-0.047
96.0000	21.637	21.147	95.9667	0.35227	-0.047	-0.047
98.0000	21.637	21.147	97.9667	0.34731	-0.047	-0.047
100.0000	21.637	21.147	99.9667	0.34250	-0.047	-0.047
110.0000	21.621	21.147	109.9667	0.32040	-0.031	-0.047
120.0000	21.621	21.147	119.9667	0.30109	-0.031	-0.047
130.0000	21.605	21.147	129.9667	0.28405	-0.015	-0.047
140.0000	21.605	21.147	139.9667	0.26889	-0.015	-0.047
150.0000	21.605	21.147	149.9667	0.25532	-0.015	-0.047
160.0000	21.605	21.147	159.9667	0.24308	-0.015	-0.047
170.0000	21.590	21.147	169.9667	0.23198	0.000	-0.047
180.0000	21.590	21.147	179.9667	0.22188	0.000	-0.047
190.0000	21.590	21.131	189.9667	0.21264	0.000	-0.031
200.0000	21.590	21.131	199.9667	0.20415	0.000	-0.031
210.0000	21.590	21.131	209.9667	0.19632	0.000	-0.031
220.0000	21.590	21.147	219.9667	0.18908	0.000	-0.047
230.0000	21.574	21.131	229.9667	0.18236	0.016	-0.031
240.0000	21.574	21.131	239.9667	0.17611	0.016	-0.031
250.0000	21.574	21.131	249.9667	0.17028	0.016	-0.031
260.0000	21.574	21.131	259.9667	0.16483	0.016	-0.031
270.0000	21.574	21.131	269.9667	0.15972	0.016	-0.031
280.0000	21.574	21.131	279.9667	0.15492	0.016	-0.031
290.0000	21.574	21.147	289.9667	0.15040	0.016	-0.047
300.0000	21.574	21.147	299.9667	0.14614	0.016	-0.047
310.0000	21.574	21.131	309.9667	0.14212	0.016	-0.031
320.0000	21.574	21.131	319.9667	0.13832	0.016	-0.031
330.0000	21.574	21.131	329.9667	0.13471	0.016	-0.031

TABLE A-6 (continued)
 RECOVERY DATA FROM PUMPING OF WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
340.0000	21.558	21.131	339.9667	0.13129	0.032	-0.031
350.0000	21.558	21.084	349.9667	0.12804	0.032	0.016
360.0000	21.558	21.084	359.9667	0.12495	0.032	0.016
370.0000	21.558	21.084	369.9667	0.12200	0.032	0.016
380.0000	21.558	21.084	379.9667	0.11920	0.032	0.016
390.0000	21.558	21.084	389.9667	0.11651	0.032	0.016
400.0000	21.542	21.084	399.9667	0.11395	0.048	0.016
410.0000	21.542	21.084	409.9667	0.11150	0.048	0.016
420.0000	21.542	21.084	419.9667	0.10915	0.048	0.016
430.0000	21.542	21.084	429.9667	0.10690	0.048	0.016
440.0000	21.542	21.068	439.9667	0.10474	0.048	0.032
450.0000	21.542	21.068	449.9667	0.10267	0.048	0.032
460.0000	21.542	21.068	459.9667	0.10068	0.048	0.032
470.0000	21.542	21.068	469.9667	0.09876	0.048	0.032
480.0000	21.526	21.068	479.9667	0.09692	0.064	0.032
490.0000	21.526	21.068	489.9667	0.09514	0.064	0.032
500.0000	21.526	21.052	499.9667	0.09343	0.064	0.048
510.0000	21.510	21.052	509.9667	0.09178	0.080	0.048
520.0000	21.510	21.052	519.9667	0.09018	0.080	0.048
530.0000	21.510	21.052	529.9667	0.08864	0.080	0.048
540.0000	21.510	21.036	539.9667	0.08716	0.080	0.064
550.0000	21.494	21.036	549.9667	0.08572	0.096	0.064
560.0000	21.494	21.036	559.9667	0.08433	0.096	0.064
570.0000	21.494	21.036	569.9667	0.08298	0.096	0.064
580.0000	21.494	21.036	579.9667	0.08167	0.096	0.064
590.0000	21.494	21.020	589.9667	0.08041	0.096	0.080
600.0000	21.478	21.020	599.9667	0.07919	0.112	0.080
610.0000	21.494	21.020	609.9667	0.07800	0.096	0.080
620.0000	21.478	21.020	619.9667	0.07684	0.112	0.080
630.0000	21.478	21.020	629.9667	0.07572	0.112	0.080
640.0000	21.478	21.004	639.9667	0.07464	0.112	0.096
650.0000	21.478	21.004	649.9667	0.07358	0.112	0.096
660.0000	21.462	21.004	659.9667	0.07255	0.128	0.096
670.0000	21.462	21.004	669.9667	0.07156	0.128	0.096
680.0000	21.462	21.004	679.9667	0.07058	0.128	0.096
690.0000	21.462	21.004	689.9667	0.06964	0.128	0.096
700.0000	21.462	20.988	699.9667	0.06872	0.128	0.112
710.0000	21.462	21.004	709.9667	0.06782	0.128	0.096
720.0000	21.462	21.004	719.9667	0.06695	0.128	0.096
730.0000	21.462	21.004	729.9667	0.06610	0.128	0.096
740.0000	21.462	21.004	739.9667	0.06527	0.128	0.096
750.0000	21.462	21.004	749.9667	0.06446	0.128	0.096
760.0000	21.462	21.004	759.9667	0.06367	0.128	0.096
770.0000	21.462	21.004	769.9667	0.06290	0.128	0.096
780.0000	21.462	21.004	779.9667	0.06215	0.128	0.096
790.0000	21.462	21.004	789.9667	0.06142	0.128	0.096
800.0000	21.462	21.004	799.9667	0.06070	0.128	0.096
810.0000	21.462	21.004	809.9667	0.06000	0.128	0.096
820.0000	21.462	20.988	819.9667	0.05932	0.128	0.112
830.0000	21.462	20.988	829.9667	0.05865	0.128	0.112

TABLE A-6 (continued)
 RECOVERY DATA FROM PUMPING OF WELL C3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
840.0000	21.462	20.988	839.9667	0.05799	0.128	0.112
850.0000	21.446	20.988	849.9667	0.05735	0.144	0.112
860.0000	21.446	20.988	859.9667	0.05673	0.144	0.112
870.0000	21.446	20.988	869.9667	0.05612	0.144	0.112
880.0000	21.462	20.988	879.9667	0.05552	0.128	0.112
890.0000	21.462	20.988	889.9667	0.05493	0.128	0.112
900.0000	21.462	20.988	899.9667	0.05436	0.128	0.112
910.0000	21.462	20.988	909.9667	0.05380	0.128	0.112
920.0000	21.462	20.988	919.9667	0.05325	0.128	0.112
930.0000	21.462	20.988	929.9667	0.05271	0.128	0.112

* Indicates data point used in regression analysis

TABLE A-7
 DATA REGRESSION AND HYDROLOGIC ANALYSIS
 RECOVERY DATA FROM PUMPING OF WELL C3

Regression Output:

Constant	42.43218 (intercept)
Std Err of Y Est	0.43557
R Squared	0.99826
No. of Observations	19
Degrees of Freedom	17

X Coefficient(s)	-39.86701 (delta S per log cycle)
Std Err of Coef.	0.40316

Q = 7.1 GPM
 B = 20 feet

T = (264*Q)/(delta S) = 47.0 gpd/ft
 T = 6.3 ft²/day
 T = 0.07 cm²/sec

k = T/B = 0.31 ft/day
 k = 1.11E-04 cm/sec
 k = 1.11E-06 m/sec

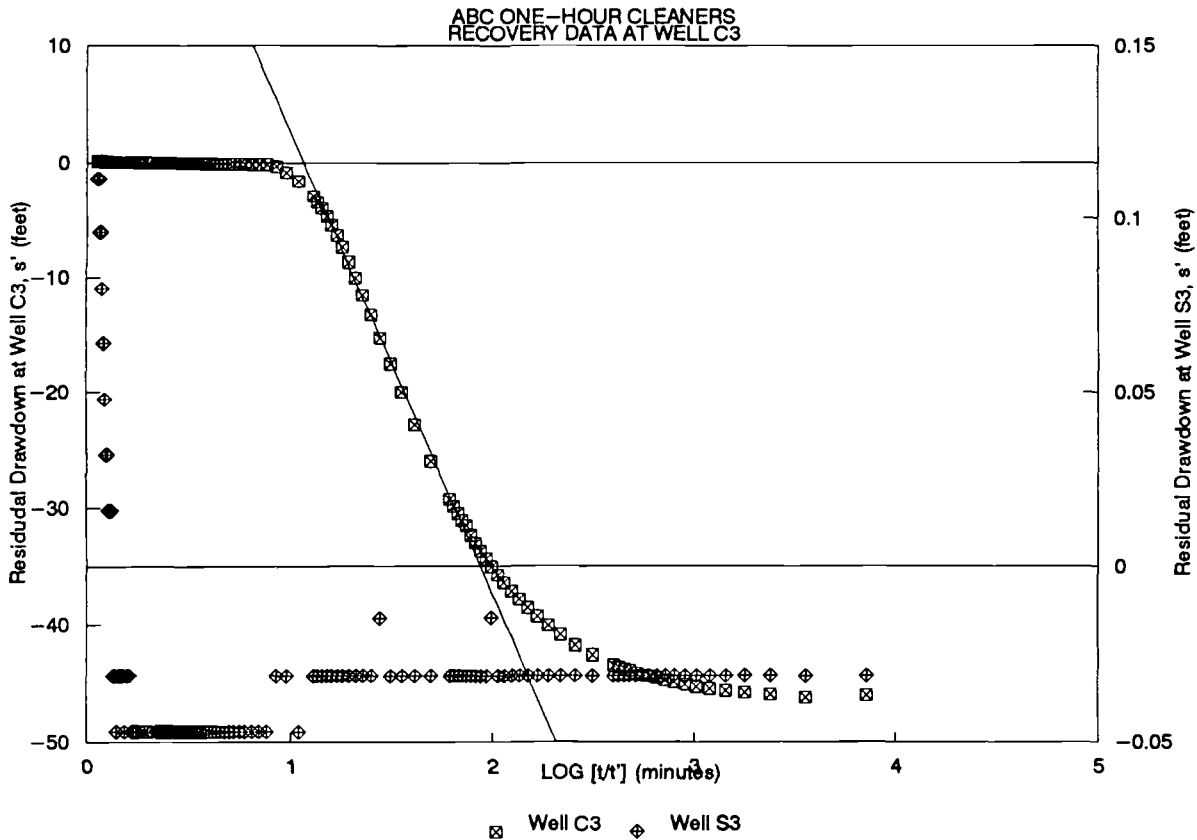


TABLE A-8
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL S3

SE1000C
 Environmental Logger
 Unit# 01573
 Data downloaded: 06/04 14:56

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	00033	00203
Reference	21.400	20.920
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50

Drawdown data, 1st step pummping, well S3
 Test 1, Step 1
 Started at 06/04/92, 09:29:40

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.0000	21.400	20.920	NA	NA	NA
0.0033	21.400	20.920	NA	NA	NA
0.0066	21.415	20.920	NA	NA	NA
0.0100	21.400	20.920	NA	NA	NA
0.0133	21.400	20.920	NA	NA	NA
0.0166	21.415	20.920	NA	NA	NA
0.0200	21.415	20.920	NA	NA	NA
0.0233	21.400	20.920	NA	NA	NA
0.0266	21.415	20.920	NA	NA	NA
0.0300	21.415	20.920	NA	NA	NA
0.0333	21.415	20.888	NA	NA	NA
0.0500	21.400	20.920	0.0000	0.000	0.000
0.0666	21.415	20.904	0.0166	0.015	-0.016
0.0833	21.415	20.935	0.0333	0.015	0.015
0.1000	21.415	20.967	0.0500	0.015	0.047
0.1166	21.415	20.999	0.0666	0.015	0.079
0.1333	21.415	21.047	0.0833	0.015	0.127
0.1500	21.415	21.063	0.1000	0.015	0.143
0.1666	21.415	21.110	0.1166	0.015	0.190
0.1833	21.415	21.126	0.1333	0.015	0.206
0.2000	21.415	21.158	0.1500	0.015	0.238
0.2166	21.415	21.190	0.1666	0.015	0.270
0.2333	21.415	21.206	0.1833	0.015	0.286
0.2500	21.415	21.238	0.2000	0.015	0.318
0.2666	21.415	21.254	0.2166	0.015	0.334
0.2833	21.415	21.285	0.2333	0.015	0.365
0.3000	21.415	21.285	0.2500	0.015	0.365
0.3166	21.415	21.317	0.2666	0.015	0.397
0.3333	21.415	21.317	0.2833	0.015	0.397
0.4166	21.415	21.397	0.3666	0.015	0.477
0.5000	21.415	21.429	0.4500	0.015	0.509
0.5833	21.415	21.460	0.5333	0.015	0.540
0.6666	21.415	21.492	0.6166	0.015	0.572

TABLE A-8 (continued)
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL S3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	21.415	21.524	0.7000	0.0150	0.6040
0.8333	21.415	21.572	0.7833	0.0150	0.6520
0.9166	21.415	21.588	0.8666	0.0150	0.6680
1.0000	21.415	21.619	0.9500	0.0150	0.6990
1.0833	21.415	21.635	1.0333	0.0150	0.7150
1.1666	21.415	21.651	1.1166	0.0150	0.7310
1.2500	21.415	21.635	1.2000	0.0150	0.7150
1.3333	21.415	21.635	1.2833	0.0150	0.7150
1.4166	21.415	21.619	1.3666	0.0150	0.6990
1.5000	21.415	21.572	1.4500	0.0150	0.6520
1.5833	21.415	21.572	1.5333	0.0150	0.6520
1.6666	21.415	21.556	1.6166	0.0150	0.6360
1.7500	21.415	21.540	1.7000	0.0150	0.6200
1.8333	21.415	21.524	1.7833	0.0150	0.6040
1.9166	21.415	21.524	1.8666	0.0150	0.6040
2.0000	21.415	21.524	1.9500	0.0150	0.6040
2.5000	21.415	21.492	2.4500	0.0150	0.5720
3.0000	21.415	21.508	2.9500	0.0150	0.5880
3.5000	21.415	21.508	3.4500	0.0150	0.5880
4.0000	21.415	21.492	3.9500	0.0150	0.5720
4.5000	21.415	21.460	4.4500	0.0150	0.5400
5.0000	21.415	21.445	4.9500	0.0150	0.5250
5.5000	21.415	21.429	5.4500	0.0150	0.5090
6.0000	21.415	21.429	5.9500	0.0150	0.5090
6.5000	21.400	21.413	6.4500	0.0000	0.4930
7.0000	21.415	21.413	6.9500	0.0150	0.4930
7.5000	21.415	21.413	7.4500	0.0150	0.4930
8.0000	21.415	21.413	7.9500	0.0150	0.4930
8.5000	21.415	21.429	8.4500	0.0150	0.5090
9.0000	21.415	21.413	8.9500	0.0150	0.4930
9.5000	21.415	21.413	9.4500	0.0150	0.4930
10.0000	21.400	21.397	9.9500	0.0000	0.4770
12.0000	21.415	21.381	11.9500	0.0150	0.4610
14.0000	21.400	21.524	13.9500	0.0000	0.6040
16.0000	21.400	21.540	15.9500	0.0000	0.6200
18.0000	21.400	21.508	17.9500	0.0000	0.5880
20.0000	21.400	21.492	19.9500	0.0000	0.5720
22.0000	21.400	21.492	21.9500	0.0000	0.5720
24.0000	21.400	21.492	23.9500	0.0000	0.5720
26.0000	21.400	21.476	25.9500	0.0000	0.5560
28.0000	21.400	21.476	27.9500	0.0000	0.5560
30.0000	21.400	21.460	29.9500	0.0000	0.5400
32.0000	21.400	21.445	31.9500	0.0000	0.5250
34.0000	21.400	21.460	33.9500	0.0000	0.5400
36.0000	21.400	21.460	35.9500	0.0000	0.5400
38.0000	21.400	21.476	37.9500	0.0000	0.5560
40.0000	21.400	21.460	39.9500	0.0000	0.5400

TABLE A-9
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL S3

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

(Q/s)_p = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

s = s_f - s_i, with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 1.1 gpm

s_f = 21.460 feet

s_i = 20.920 feet

s = 0.540 feet

(Q/s)_p = 2.037 gpm/ft

L = 20 feet

r = 2 inches
 0.167 feet

B = 53 feet

Q/s = 3.896 gpm/ft

TABLE A-9 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL S3

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est} t / r^2 S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 3.896 gpm/ft

T_{est} = 1630 gpd/ft

t = 40 minutes
 = 0.028 days

r = 2 inches
 0.167 feet

S = 0.001

T = 5851 gpd/ft
 782 ft²/day
 8.41E+00 cm²/sec

TABLE A-9 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMMPING, WELL S3

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 782 ft²/day

$B =$ 53 feet

$k =$ 14.76 ft/day
 = 5.21E-03 cm/sec
 = 5.21E-05 m/sec

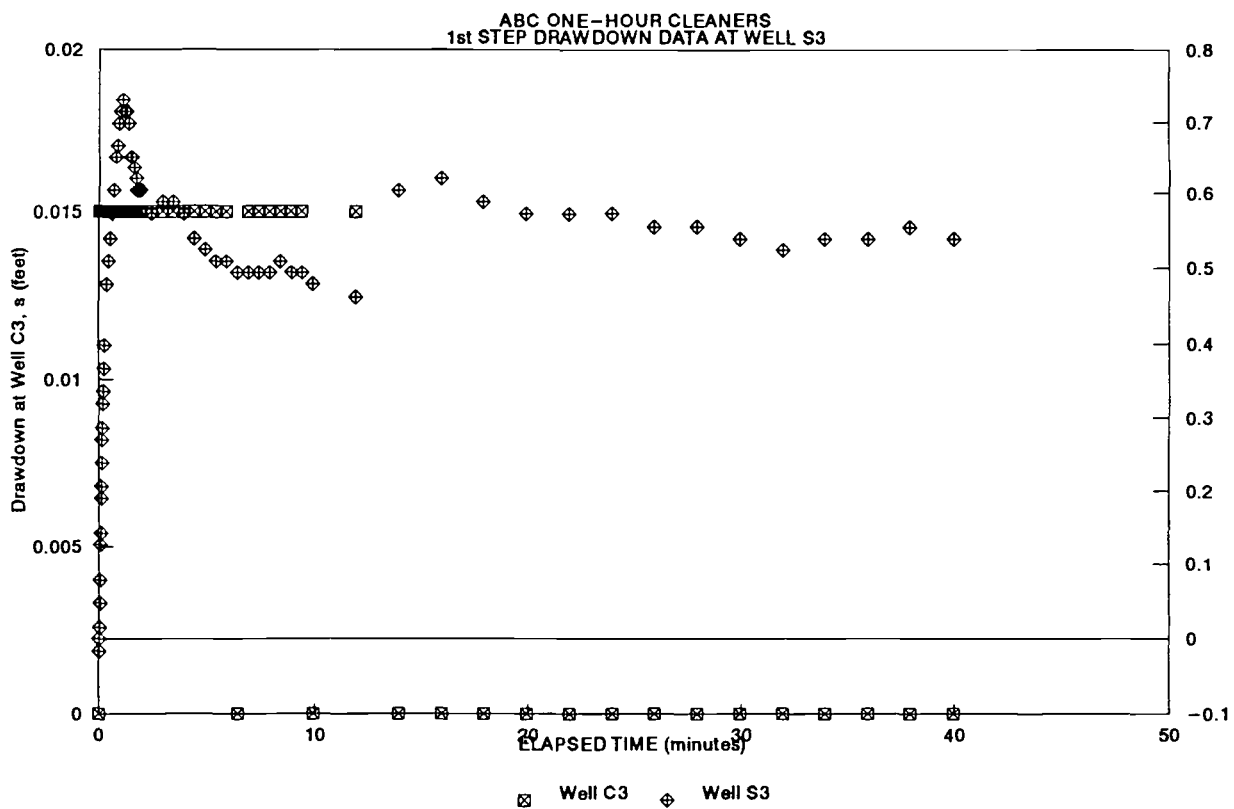


TABLE A-10
 DRAWDOWN DATA, 2ND STEP PUMPPING, WELL S3

SE1000C
 Environmental Logger
 Unit# 01573
 Data downloaded: 06/04 15:00

Type Mode I.D.	Level (F) TOC 00033	Level (F) TOC 00203
Reference	21.400	20.920
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50

Drawdown data, 2nd step pumpping, well S3

Test 1, Step 1

Started at 06/04/92, 10:09:40

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.0000	21.400	21.476	NA	NA	NA
0.0033	21.400	21.476	NA	NA	NA
0.0066	21.400	21.476	NA	NA	NA
0.0100	21.400	21.476	NA	NA	NA
0.0133	21.400	21.476	NA	NA	NA
0.0166	21.400	21.476	NA	NA	NA
0.0200	21.400	21.460	NA	NA	NA
0.0233	21.400	21.476	NA	NA	NA
0.0266	21.400	21.476	NA	NA	NA
0.0300	21.400	21.476	NA	NA	NA
0.0333	21.400	21.476	0.0000	0.0000	0.0000
0.0500	21.415	21.492	0.0033	0.015	0.016
0.0666	21.415	21.508	0.0200	0.015	0.032
0.0833	21.415	21.524	0.0366	0.015	0.048
0.1000	21.415	21.556	0.0533	0.015	0.080
0.1166	21.400	21.572	0.0700	0.000	0.096
0.1333	21.415	21.588	0.0866	0.015	0.112
0.1500	21.415	21.604	0.1033	0.015	0.128
0.1666	21.415	21.635	0.1200	0.015	0.159
0.1833	21.415	21.635	0.1366	0.015	0.159
0.2000	21.415	21.667	0.1533	0.015	0.191
0.2166	21.415	21.683	0.1700	0.015	0.207
0.2333	21.415	21.699	0.1866	0.015	0.223
0.2500	21.415	21.715	0.2033	0.015	0.239
0.2666	21.415	21.715	0.2200	0.015	0.239
0.2833	21.415	21.747	0.2366	0.015	0.271
0.3000	21.415	21.747	0.2533	0.015	0.271
0.3166	21.415	21.763	0.2700	0.015	0.287
0.3333	21.415	21.763	0.2866	0.015	0.287
0.4166	21.415	21.826	0.3033	0.015	0.350
0.5000	21.400	21.874	0.3866	0.000	0.398
0.5833	21.415	21.906	0.4700	0.015	0.430
0.6666	21.400	21.969	0.5533	0.000	0.493

TABLE A-10 (continued)
 DRAWDOWN DATA, 2ND STEP PUMPPING, WELL S3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	21.415	21.969	0.6366	0.0150	0.4930
0.8333	21.415	21.985	0.7200	0.0150	0.5090
0.9166	21.415	21.985	0.8033	0.0150	0.5090
1.0000	21.400	22.017	0.8866	0.0000	0.5410
1.0833	21.400	22.033	0.9700	0.0000	0.5570
1.1666	21.400	22.033	1.0533	0.0000	0.5570
1.2500	21.400	22.049	1.1366	0.0000	0.5730
1.3333	21.400	22.065	1.2200	0.0000	0.5890
1.4166	21.400	22.081	1.3033	0.0000	0.6050
1.5000	21.415	22.065	1.3866	0.0150	0.5890
1.5833	21.415	22.097	1.4700	0.0150	0.6210
1.6666	21.415	22.097	1.5533	0.0150	0.6210
1.7500	21.400	22.097	1.6366	0.0000	0.6210
1.8333	21.415	22.097	1.7200	0.0150	0.6210
1.9166	21.400	22.113	1.8033	0.0000	0.6370
2.0000	21.415	22.113	1.8866	0.0150	0.6370
2.5000	21.415	22.288	1.9700	0.0150	0.8120
3.0000	21.415	22.351	2.4700	0.0150	0.8750
3.5000	21.400	22.367	2.9700	0.0000	0.8910
4.0000	21.400	22.622	3.4700	0.0000	1.1460
4.5000	21.415	22.987	3.9700	0.0150	1.5110
5.0000	21.415	23.162	4.4700	0.0150	1.6860
5.5000	21.415	23.258	4.9700	0.0150	1.7820
6.0000	21.400	23.322	5.4700	0.0000	1.8460
6.5000	21.400	23.385	5.9700	0.0000	1.9090
7.0000	21.400	23.417	6.4700	0.0000	1.9410
7.5000	21.400	23.481	6.9700	0.0000	2.0050
8.0000	21.400	23.449	7.4700	0.0000	1.9730
8.5000	21.400	23.242	7.9700	0.0000	1.7660
9.0000	21.400	23.147	8.4700	0.0000	1.6710
9.5000	21.415	23.178	8.9700	0.0150	1.7020
10.0000	21.400	23.131	9.4700	0.0000	1.6550
12.0000	21.400	23.131	9.9700	0.0000	1.6550
14.0000	21.400	23.178	11.9700	0.0000	1.7020
16.0000	21.400	23.210	13.9700	0.0000	1.7340
18.0000	21.400	23.337	15.9700	0.0000	1.8610
20.0000	21.400	23.465	17.9700	0.0000	1.9890
22.0000	21.400	23.449	19.9700	0.0000	1.9730
24.0000	21.400	23.497	21.9700	0.0000	2.0210
26.0000	21.400	23.481	23.9700	0.0000	2.0050
28.0000	21.400	23.512	25.9700	0.0000	2.0360
30.0000	21.400	23.544	27.9700	0.0000	2.0680
32.0000	21.400	23.560	29.9700	0.0000	2.0840
34.0000	21.400	23.560	31.9700	0.0000	2.0840
36.0000	21.400	23.560	33.9700	0.0000	2.0840
38.0000	21.400	23.560	35.9700	0.0000	2.0840
40.0000	21.400	23.576	37.9700	0.0000	2.1000
42.0000	21.400	23.592	39.9700	0.0000	2.1160
44.0000	21.400	23.576	41.9700	0.0000	2.1000
46.0000	21.415	23.592	43.9700	0.0150	2.1160

TABLE A-10 (continued)
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL S3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
48.0000	21.400	23.608	45.9700	0.0000	2.1320
50.0000	21.415	23.608	47.9700	0.0150	2.1320

TABLE A-11
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL S3

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{(1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2))\}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$ with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 4.1 gpm

s_f = 23.608 feet

s_i = 20.920 feet

s = 2.688 feet

$(Q/s)_p$ = 1.525 gpm/ft

L = 20 feet

r = 2 inches
 0.167 feet

B = 53 feet

Q/s = 2.917 gpm/ft

TABLE A-11 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL S3

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est}t / r^2S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 2.917 gpm/ft

T_{est} = 1630 gpd/ft

t = 50 minutes
 = 0.035 days

r = 2 inches
 0.167 feet

S = 0.001

T = 4456 gpd/ft
 596 ft²/day
 6.41E+00 cm²/sec

TABLE A-11 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMMPING, WELL S3

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 596 ft²/day

$B =$ 53 feet

$k =$ 11.24 ft/day
 = 3.97E-03 cm/sec
 = 3.97E-05 m/sec

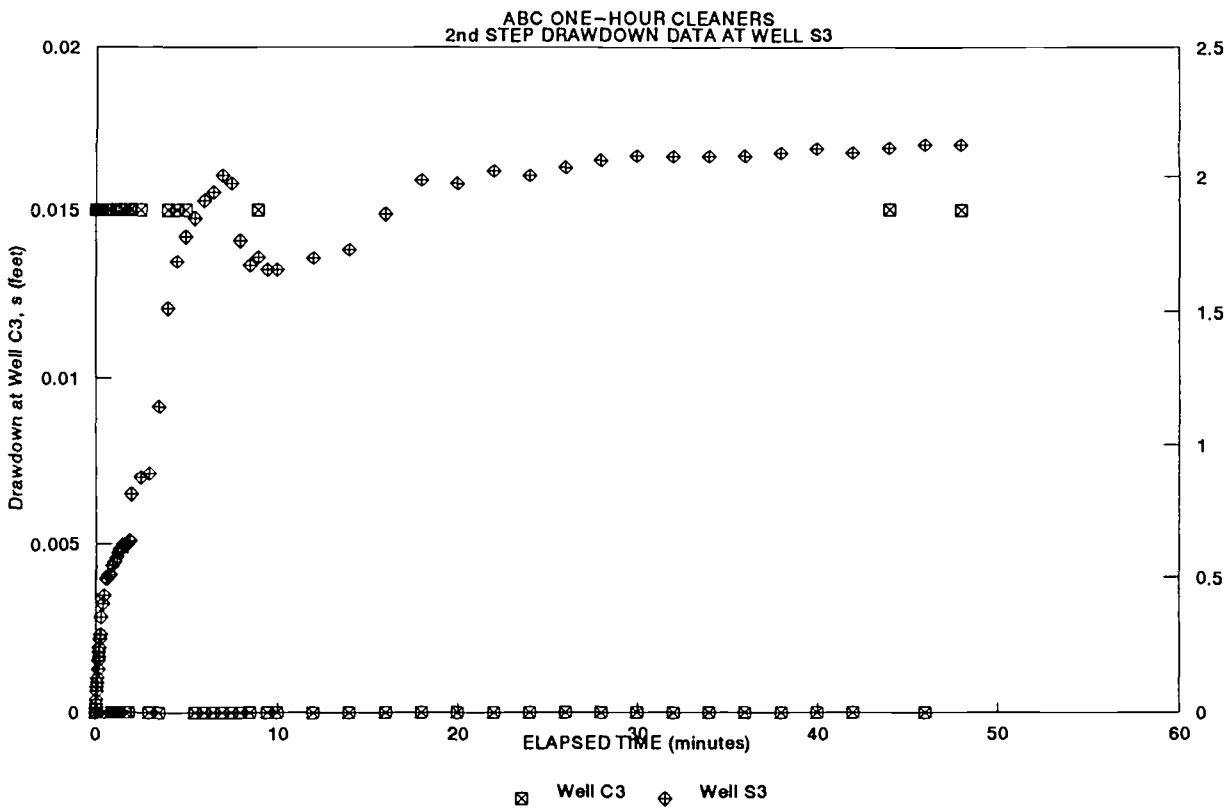


TABLE A-12
RECOVERY DATA FROM PUMPING OF WELL S3

SE1000C
Environmental Logger
Unit# 01573
Data downloaded: 06/04 15:03

Type Mode I.D.	Level (F) TOC 00033	Level (F) TOC 00203
Reference	21.400	20.920
Linearity	0.070	0.060
Scale factor	50.330	50.380
Offset	-0.120	0.020
Delay mSEC	50	50

Recovery data from pumping of well S3 ET for final pumping step = 50 minutes
Test 2, Step 2
Started at 06/04/92, 10:59:43

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.0000	21.415	23.608	NA	NA	NA	NA
0.0033	21.415	23.608	NA	NA	NA	NA
0.0066	21.415	23.608	NA	NA	NA	NA
0.0100	21.415	23.608	NA	NA	NA	NA
0.0133	21.415	23.608	NA	NA	NA	NA
0.0166	21.415	23.624	NA	NA	NA	NA
0.0200	21.415	23.608	0.0000	NA	-0.0150	-2.6880
0.0233	21.431	23.528	0.0033	4.1805	-0.0310	-2.6080
0.0266	21.415	23.576	0.0066	3.8795	-0.0150	-2.6560
0.0300	21.431	23.624	0.0100	3.6991	-0.0310	-2.7040
0.0333	21.431	23.592	0.0133	3.5752	-0.0310	-2.6720
0.0500	21.431	23.512	0.0300	3.2221	-0.0310	-2.5920
0.0666	21.415	23.433	0.0466	3.0310	-0.0150	-2.5130
0.0833	21.415	23.353	0.0633	2.8981	-0.0150	-2.4330
0.1000	21.415	23.274	0.0800	2.7966	-0.0150	-2.3540
0.1166	21.415	23.194	0.0966	2.7148	-0.0150	-2.2740
0.1333	21.431	23.115	0.1133	2.6457	-0.0310	-2.1950
0.1500	21.431	23.035	0.1300	2.5862	-0.0310	-2.1150
0.1666	21.431	22.972	0.1466	2.5341	-0.0310	-2.0520
0.1833	21.415	22.908	0.1633	2.4874	-0.0150	-1.9880
0.2000	21.431	22.844	0.1800	2.4453	-0.0310	-1.9240
0.2166	21.431	22.781	0.1966	2.4071	-0.0310	-1.8610
0.2333	21.415	22.717	0.2133	2.3718	-0.0150	-1.7970
0.2500	21.431	22.653	0.2300	2.3392	-0.0310	-1.7330
0.2666	21.431	22.590	0.2466	2.3091	-0.0310	-1.6700
0.2833	21.415	22.542	0.2633	2.2808	-0.0150	-1.6220
0.3000	21.415	22.494	0.2800	2.2542	-0.0150	-1.5740
0.3166	21.415	22.431	0.2966	2.2294	-0.0150	-1.5110
0.3333	21.415	22.383	0.3133	2.2057	-0.0150	-1.4630
0.4166	21.415	22.128	0.3966	2.1040	-0.0150	-1.2080
0.5000	21.415	21.954	0.4800	2.0219	-0.0150	-1.0340
0.5833	21.415	21.874	0.5633	1.9531	-0.0150	-0.9540
0.6666	21.415	21.858	0.6466	1.8939	-0.0150	-0.9380

TABLE A-12 (continued)
 RECOVERY DATA FROM PUMPING OF WELL S3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
0.7500	21.415	21.858	0.7300	1.8419	-0.0150	-0.9380
0.8333	21.415	21.842	0.8133	1.7957	-0.0150	-0.9220
0.9166	21.415	21.842	0.8966	1.7541	-0.0150	-0.9220
1.0000	21.415	21.826	0.9800	1.7162	-0.0150	-0.9060 *
1.0833	21.415	21.810	1.0633	1.6815	-0.0150	-0.8900 *
1.1666	21.415	21.794	1.1466	1.6494	-0.0150	-0.8740 *
1.2500	21.415	21.779	1.2300	1.6196	-0.0150	-0.8590 *
1.3333	21.415	21.763	1.3133	1.5919	-0.0150	-0.8430 *
1.4166	21.415	21.747	1.3966	1.5659	-0.0150	-0.8270 *
1.5000	21.415	21.731	1.4800	1.5414	-0.0150	-0.8110 *
1.5833	21.415	21.715	1.5633	1.5183	-0.0150	-0.7950 *
1.6666	21.415	21.699	1.6466	1.4965	-0.0150	-0.7790 *
1.7500	21.415	21.699	1.7300	1.4757	-0.0150	-0.7790 *
1.8333	21.415	21.683	1.8133	1.4560	-0.0150	-0.7630 *
1.9166	21.415	21.667	1.8966	1.4372	-0.0150	-0.7470 *
2.0000	21.415	21.651	1.9800	1.4192	-0.0150	-0.7310 *
2.5000	21.415	21.604	2.4800	1.3255	-0.0150	-0.6840 *
3.0000	21.415	21.540	2.9800	1.2499	-0.0150	-0.6200 *
3.5000	21.415	21.508	3.4800	1.1866	-0.0150	-0.5880 *
4.0000	21.415	21.460	3.9800	1.1323	-0.0150	-0.5400 *
4.5000	21.415	21.445	4.4800	1.0850	-0.0150	-0.5250 *
5.0000	21.415	21.413	4.9800	1.0430	-0.0150	-0.4930 *
5.5000	21.415	21.333	5.4800	1.0054	-0.0150	-0.4130 *
6.0000	21.415	21.317	5.9800	0.9713	-0.0150	-0.3970 *
6.5000	21.415	21.301	6.4800	0.9403	-0.0150	-0.3810 *
7.0000	21.415	21.301	6.9800	0.9119	-0.0150	-0.3810 *
7.5000	21.400	21.285	7.4800	0.8856	0.0000	-0.3650 *
8.0000	21.400	21.269	7.9800	0.8613	0.0000	-0.3490 *
8.5000	21.400	21.254	8.4800	0.8386	0.0000	-0.3340 *
9.0000	21.400	21.238	8.9800	0.8174	0.0000	-0.3180 *
9.5000	21.400	21.238	9.4800	0.7976	0.0000	-0.3180 *
10.0000	21.415	21.222	9.9800	0.7789	-0.0150	-0.3020 *
12.0000	21.400	21.174	11.9800	0.7138	0.0000	-0.2540 *
14.0000	21.400	21.142	13.9800	0.6605	0.0000	-0.2220 *
16.0000	21.400	21.126	15.9800	0.6158	0.0000	-0.2060 *
18.0000	21.384	21.110	17.9800	0.5776	0.0160	-0.1900 *
20.0000	21.368	21.079	19.9800	0.5444	0.0320	-0.1590 *
22.0000	21.384	21.063	21.9800	0.5152	0.0160	-0.1430 *
24.0000	21.384	21.031	23.9800	0.4893	0.0160	-0.1110 *
26.0000	21.384	21.031	25.9800	0.4661	0.0160	-0.1110 *
28.0000	21.368	21.015	27.9800	0.4451	0.0320	-0.0950 *
30.0000	21.368	20.967	29.9800	0.4261	0.0320	-0.0470 *
32.0000	21.368	20.951	31.9800	0.4088	0.0320	-0.0310 *
34.0000	21.384	20.951	33.9800	0.3930	0.0160	-0.0310
36.0000	21.384	20.951	35.9800	0.3783	0.0160	-0.0310
38.0000	21.368	20.951	37.9800	0.3648	0.0320	-0.0310
40.0000	21.368	20.951	39.9800	0.3523	0.0320	-0.0310
42.0000	21.368	20.935	41.9800	0.3407	0.0320	-0.0150
44.0000	21.368	20.920	43.9800	0.3298	0.0320	0.0000
46.0000	21.368	20.920	45.9800	0.3196	0.0320	0.0000

TABLE A-12 (continued)
 RECOVERY DATA FROM PUMPING OF WELL S3

Elapsed Time (min)	Well C3 INPUT 1 (feet)	Well S3 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well C3 Delta Water Level (feet)	Well S3 Delta Water Level (feet)
48.0000	21.368	20.920	47.9800	0.3101	0.0320	0.0000
50.0000	21.368	20.920	49.9800	0.3011	0.0320	0.0000
52.0000	21.368	20.920	51.9800	0.2927	0.0320	0.0000
54.0000	21.352	20.904	53.9800	0.2847	0.0480	0.0160
56.0000	21.352	20.920	55.9800	0.2772	0.0480	0.0000
58.0000	21.368	20.920	57.9800	0.2701	0.0320	0.0000
60.0000	21.368	20.920	59.9800	0.2633	0.0320	0.0000
62.0000	21.368	20.904	61.9800	0.2569	0.0320	0.0160
64.0000	21.368	20.904	63.9800	0.2508	0.0320	0.0160
66.0000	21.368	20.904	65.9800	0.2450	0.0320	0.0160

* Indicates data used in regression analysis.

TABLE A-13
 DATA REGRESSION AND HYDROLOGIC ANALYSIS
 RECOVERY DATA FROM PUMPING OF WELL S3

Regression Output:

Constant	0.21553	(intercept)
Std Err of Y Est	0.01506	
R Squared	0.99717	
No. of Observations	40	
Degrees of Freedom	38	
X Coefficient(s)	-0.66414	(delta S per log cycle)
Std Err of Coef.	0.00574	

Q = 4.1 GPM
 B = 53 feet

T = (264*Q)/(delta S) = 1629.8 gpd/ft
 T = 217.9 ft²/day
 T = 2.34 cm²/sec

k = T/B = 4.11 ft/day
 k = 1.45E-03 cm/sec
 k = 1.45E-05 m/sec

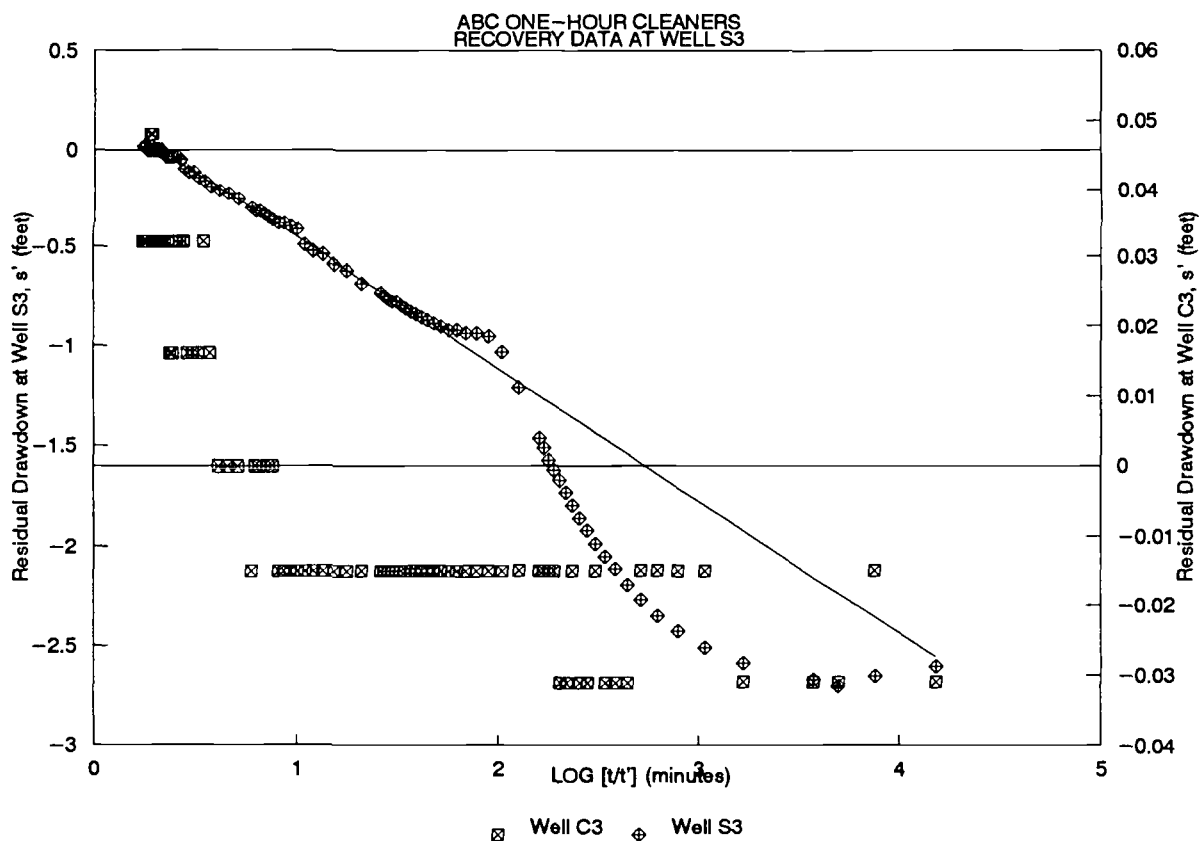


TABLE A-14
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

SE2000
 Environmental Logger
 Unit# 2
 Data downloaded: 06/04 13:59

Type Mode I.D.	Level (F) TOC C-2	Level (F) TOC S-2
Reference	12.656	13.380
Linearity	0.000	0.000
Scale factor	50.443	30.249
Offset	0.010	-0.169
Delay mSEC	50	50

Drawdown data, 1st step pumping, well C2
 Test 0, Step 0
 Started at 06/02/92, 15:43:18

Elapsed Time (min)	Well C2 INPUT 1 (feet)	Well S2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C2 Delta Water Level (feet)	Well S2 Delta Water Level (feet)
0.0000	12.640	13.380	0.000	-0.016	0.000
0.0083	12.671	13.380	0.008	0.015	0.000
0.0166	12.687	13.380	0.017	0.031	0.000
0.0250	12.703	13.380	0.025	0.047	0.000
0.0333	12.719	13.380	0.033	0.063	0.000
0.0416	12.719	13.380	0.042	0.063	0.000
0.0500	12.719	13.380	0.050	0.063	0.000
0.0583	12.719	13.380	0.058	0.063	0.000
0.0666	12.719	13.380	0.067	0.063	0.000
0.0750	12.767	13.380	0.075	0.111	0.000
0.0833	12.783	13.380	0.083	0.127	0.000
0.1000	12.814	13.380	0.100	0.158	0.000
0.1166	12.830	13.380	0.117	0.174	0.000
0.1333	12.862	13.380	0.133	0.206	0.000
0.1500	12.878	13.380	0.150	0.222	0.000
0.1666	12.894	13.380	0.167	0.238	0.000
0.1833	12.926	13.380	0.183	0.270	0.000
0.2000	12.958	13.380	0.200	0.302	0.000
0.2166	12.973	13.380	0.217	0.317	0.000
0.2333	12.973	13.380	0.233	0.317	0.000
0.2500	13.005	13.380	0.250	0.349	0.000
0.2666	13.021	13.380	0.267	0.365	0.000
0.2833	13.037	13.380	0.283	0.381	0.000
0.3000	13.053	13.380	0.300	0.397	0.000
0.3166	13.069	13.380	0.317	0.413	0.000
0.3333	13.085	13.380	0.333	0.429	0.000
0.4166	13.148	13.380	0.417	0.492	0.000
0.5000	13.212	13.370	0.500	0.556	-0.010
0.5833	13.260	13.380	0.583	0.604	0.000
0.6666	13.291	13.380	0.667	0.635	0.000
0.7500	13.339	13.380	0.750	0.683	0.000
0.8333	13.355	13.380	0.833	0.699	0.000
0.9166	13.355	13.380	0.917	0.699	0.000

TABLE A-14 (continued)
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Elapsed Time (min)	Well C2 INPUT 1 (feet)	Well S2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C2 Delta Water Level (feet)	Well S2 Delta Water Level (feet)
1.0000	13.371	13.380	1.000	0.715	0.000
1.0833	13.371	13.380	1.083	0.715	0.000
1.1666	13.371	13.380	1.167	0.715	0.000
1.2500	13.371	13.370	1.250	0.715	-0.010
1.3333	13.339	13.380	1.333	0.683	0.000
1.4166	13.355	13.370	1.417	0.699	-0.010
1.5000	13.355	13.380	1.500	0.699	0.000
1.5833	13.339	13.380	1.583	0.683	0.000
1.6666	13.355	13.380	1.667	0.699	0.000
1.7500	13.323	13.380	1.750	0.667	0.000
1.8333	13.291	13.380	1.833	0.635	0.000
1.9166	13.244	13.370	1.917	0.588	-0.010
2.0000	13.180	13.370	2.000	0.524	-0.010
2.5000	13.832	13.380	2.500	1.176	0.000
3.0000	14.198	13.380	3.000	1.542	0.000
3.5000	14.404	13.380	3.500	1.748	0.000
4.0000	14.548	13.380	4.000	1.892	0.000
4.5000	14.627	13.380	4.500	1.971	0.000
5.0000	14.675	13.380	5.000	2.019	0.000
5.5000	14.722	13.380	5.500	2.066	0.000
6.0000	14.754	13.380	6.000	2.098	0.000
6.5000	14.675	13.380	6.500	2.019	0.000
7.0000	14.627	13.380	7.000	1.971	0.000
7.5000	14.627	13.380	7.500	1.971	0.000
8.0000	14.627	13.380	8.000	1.971	0.000
8.5000	14.675	13.380	8.500	2.019	0.000
9.0000	14.691	13.380	9.000	2.035	0.000
9.5000	14.707	13.380	9.500	2.051	0.000
10.0000	14.691	13.380	10.000	2.035	0.000
11.0000	14.691	13.389	11.000	2.035	0.009
12.0000	14.707	13.389	12.000	2.051	0.009
13.0000	14.707	13.399	13.000	2.051	0.019
14.0000	14.722	13.399	14.000	2.066	0.019
15.0000	14.707	13.399	15.000	2.051	0.019
16.0000	14.722	13.399	16.000	2.066	0.019
17.0000	14.707	13.408	17.000	2.051	0.028
18.0000	14.707	13.408	18.000	2.051	0.028
19.0000	14.722	13.408	19.000	2.066	0.028
20.0000	14.738	13.408	20.000	2.082	0.028
21.0000	14.738	13.408	21.000	2.082	0.028
22.0000	14.754	13.408	22.000	2.098	0.028
23.0000	14.738	13.418	23.000	2.082	0.038
24.0000	14.722	13.418	24.000	2.066	0.038
25.0000	14.707	13.418	25.000	2.051	0.038
26.0000	14.707	13.418	26.000	2.051	0.038
27.0000	14.675	13.408	27.000	2.019	0.028
28.0000	14.675	13.418	28.000	2.019	0.038
29.0000	14.659	13.418	29.000	2.003	0.038
30.0000	14.675	13.418	30.000	2.019	0.038
31.0000	14.659	13.427	31.000	2.003	0.047

TABLE A-14 (continued)
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Elapsed Time (min)	Well C2 INPUT 1 (feet)	Well S2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C2 Delta Water Level (feet)	Well S2 Delta Water Level (feet)
32.0000	14.643	13.427	32.000	1.987	0.047
33.0000	14.643	13.437	33.000	1.987	0.057
34.0000	14.659	13.437	34.000	2.003	0.057
35.0000	14.643	13.437	35.000	1.987	0.057
36.0000	14.643	13.437	36.000	1.987	0.057
37.0000	14.643	13.437	37.000	1.987	0.057
38.0000	14.643	13.427	38.000	1.987	0.047
39.0000	14.611	13.427	39.000	1.955	0.047
40.0000	14.611	13.427	40.000	1.955	0.047
41.0000	14.611	13.427	41.000	1.955	0.047
42.0000	14.595	13.427	42.000	1.939	0.047
43.0000	14.579	13.427	43.000	1.923	0.047
44.0000	14.579	13.427	44.000	1.923	0.047
45.0000	14.595	13.427	45.000	1.939	0.047
46.0000	14.579	13.427	46.000	1.923	0.047
47.0000	14.563	13.427	47.000	1.907	0.047
48.0000	14.579	13.427	48.000	1.923	0.047
49.0000	14.563	13.437	49.000	1.907	0.057
50.0000	14.548	13.418	50.000	1.892	0.038
51.0000	14.532	13.427	51.000	1.876	0.047
52.0000	14.532	13.427	52.000	1.876	0.047
53.0000	14.516	13.427	53.000	1.860	0.047
54.0000	14.436	13.427	54.000	1.780	0.047
55.0000	14.468	13.427	55.000	1.812	0.047
56.0000	14.500	13.427	56.000	1.844	0.047
57.0000	14.500	13.427	57.000	1.844	0.047
58.0000	14.500	13.408	58.000	1.844	0.028
59.0000	14.500	13.418	59.000	1.844	0.038
60.0000	14.500	13.418	60.000	1.844	0.038
61.0000	14.516	13.418	61.000	1.860	0.038
62.0000	14.532	13.418	62.000	1.876	0.038
63.0000	14.532	13.418	63.000	1.876	0.038
64.0000	14.516	13.427	64.000	1.860	0.047
65.0000	14.532	13.427	65.000	1.876	0.047
66.0000	14.548	13.418	66.000	1.892	0.038
67.0000	14.627	13.418	67.000	1.971	0.038
68.0000	14.643	13.418	68.000	1.987	0.038
69.0000	14.659	13.418	69.000	2.003	0.038
70.0000	14.659	13.408	70.000	2.003	0.028
71.0000	14.675	13.418	71.000	2.019	0.038
72.0000	14.675	13.418	72.000	2.019	0.038
73.0000	14.691	13.418	73.000	2.035	0.038
74.0000	14.707	13.427	74.000	2.051	0.047
75.0000	14.722	13.437	75.000	2.066	0.057
76.0000	14.722	13.427	76.000	2.066	0.047
77.0000	14.738	13.437	77.000	2.082	0.057
78.0000	14.707	13.427	78.000	2.051	0.047
79.0000	14.738	13.427	79.000	2.082	0.047
80.0000	14.722	13.427	80.000	2.066	0.047
81.0000	14.707	13.427	81.000	2.051	0.047

TABLE A-14 (continued)
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Elapsed Time (min)	Well C2 INPUT 1 (feet)	Well S2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well C2 Delta Water Level (feet)	Well S2 Delta Water Level (feet)
82.0000	14.722	13.427	82.000	2.066	0.047
83.0000	14.707	13.427	83.000	2.051	0.047
84.0000	14.707	13.427	84.000	2.051	0.047
85.0000	14.722	13.437	85.000	2.066	0.057
86.0000	14.722	13.427	86.000	2.066	0.047
87.0000	14.707	13.418	87.000	2.051	0.038
88.0000	14.738	13.418	88.000	2.082	0.038
89.0000	14.738	13.427	89.000	2.082	0.047
90.0000	14.707	13.427	90.000	2.051	0.047
91.0000	14.722	13.437	91.000	2.066	0.057
92.0000	14.691	13.418	92.000	2.035	0.038

TABLE A-15
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$, with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 2.4 gpm

s_f = 14.691 feet

s_i = 12.656 feet

s = 2.035 feet

$(Q/s)_p$ = 1.179 gpm/ft

L = 10 feet

r = 2 inches
 0.167 feet

B = 18 feet

Q/s = 1.314 gpm/ft

TABLE A-15 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est} t / r^2 S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 1.314 gpm/ft

T_{est} = 403 gpd/ft

t = 92 minutes
 = 0.064 days

r = 2 inches
 0.167 feet

S = 0.001

T = 1889 gpd/ft
 253 ft²/day
 2.72E+00 cm²/sec

TABLE A-15 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL C2

Hydraulic conductivity:

$$k = T/B$$

Where:

k = hydraulic conductivity (in ft/day)

T = transmissivity (in ft²/day)

B = aquifer thickness (in feet)

For:

$$T = 253 \text{ ft}^2/\text{day}$$

$$B = 18 \text{ feet}$$

$$k = 14.03 \text{ ft/day}$$

$$= 4.95E-03 \text{ cm/sec}$$

$$= 4.95E-05 \text{ m/sec}$$

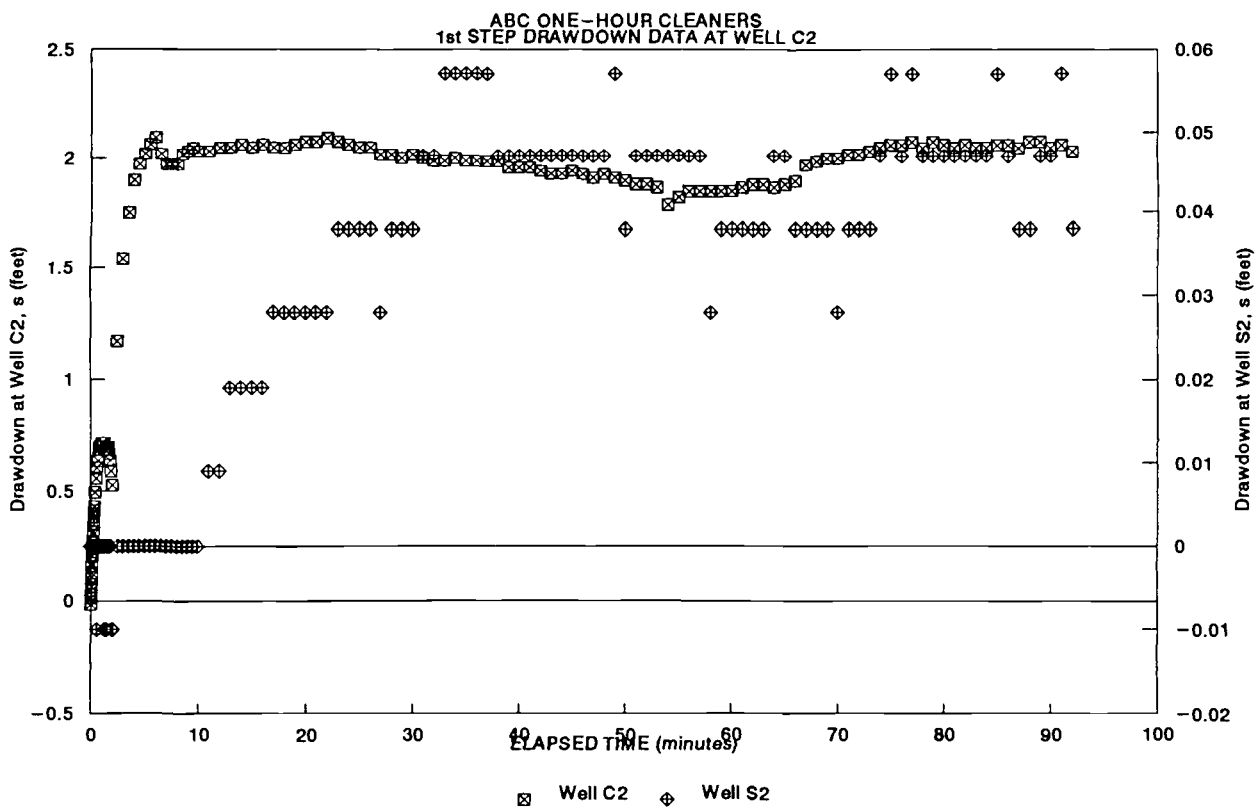


TABLE A-16
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

SE2000
 Environmental Logger
 Unit# 2
 Data downloaded: 06/04 14:06

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	S-2	C-2
Reference	0.000	0.000
Linearity	1.000	1.000
Scale factor	30.249	29.867
Offset	-0.169	-0.009
Delay mSEC	50	50

Drawdown data, 1st step pumping, well s2
 Test 2, Step 0
 Started at 06/03/92, 10:52:53

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
0.0000	0.009	0.000	0.000	0.009	0.000
0.0083	0.171	0.000	0.008	0.171	0.000
0.0166	0.114	0.000	0.017	0.114	0.000
0.0250	0.219	0.000	0.025	0.219	0.000
0.0333	0.305	0.000	0.033	0.305	0.000
0.0416	0.409	0.000	0.042	0.409	0.000
0.0500	0.514	0.000	0.050	0.514	0.000
0.0583	0.619	0.000	0.058	0.619	0.000
0.0666	0.686	0.000	0.067	0.686	0.000
0.0750	0.810	0.000	0.075	0.810	0.000
0.0833	0.905	0.000	0.083	0.905	0.000
0.1000	1.105	0.000	0.100	1.105	0.000
0.1166	1.296	0.000	0.117	1.296	0.000
0.1333	1.477	0.000	0.133	1.477	0.000
0.1500	1.649	0.000	0.150	1.649	0.000
0.1666	1.821	0.000	0.167	1.821	0.000
0.1833	1.973	0.000	0.183	1.973	0.000
0.2000	2.116	0.000	0.200	2.116	0.000
0.2166	2.250	0.000	0.217	2.250	0.000
0.2333	2.383	0.000	0.233	2.383	0.000
0.2500	2.507	0.000	0.250	2.507	0.000
0.2666	2.641	0.000	0.267	2.641	0.000
0.2833	2.774	0.000	0.283	2.774	0.000
0.3000	2.898	0.000	0.300	2.898	0.000
0.3166	3.022	0.000	0.317	3.022	0.000
0.3333	3.146	0.000	0.333	3.146	0.000
0.4166	3.689	0.000	0.417	3.689	0.000
0.5000	4.137	0.009	0.500	4.137	0.009
0.5833	4.509	0.000	0.583	4.509	0.000
0.6666	4.814	0.000	0.667	4.814	0.000
0.7500	5.053	0.000	0.750	5.053	0.000
0.8333	5.196	0.000	0.833	5.196	0.000
0.9166	5.262	0.000	0.917	5.262	0.000

TABLE A-16 (continued)
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
1.0000	5.329	-0.009	1.000	5.329	-0.009
1.0833	5.386	0.000	1.083	5.386	0.000
1.1666	5.444	0.000	1.167	5.444	0.000
1.2500	5.444	-0.009	1.250	5.444	-0.009
1.3333	5.262	0.000	1.333	5.262	0.000
1.4166	5.062	0.000	1.417	5.062	0.000
1.5000	4.900	-0.009	1.500	4.900	-0.009
1.5833	4.767	-0.009	1.583	4.767	-0.009
1.6666	4.662	0.000	1.667	4.662	0.000
1.7500	4.576	0.000	1.750	4.576	0.000
1.8333	4.471	-0.009	1.833	4.471	-0.009
1.9166	4.290	0.000	1.917	4.290	0.000
2.0000	4.137	0.000	2.000	4.137	0.000
2.5000	3.613	0.000	2.500	3.613	0.000
3.0000	3.451	0.000	3.000	3.451	0.000
3.5000	3.413	0.009	3.500	3.413	0.009
4.0000	3.394	0.009	4.000	3.394	0.009
4.5000	3.403	0.009	4.500	3.403	0.009
5.0000	3.413	0.018	5.000	3.413	0.018
5.5000	3.432	0.018	5.500	3.432	0.018
6.0000	3.441	0.028	6.000	3.441	0.028
6.5000	3.441	0.018	6.500	3.441	0.018
7.0000	3.441	0.018	7.000	3.441	0.018
7.5000	3.441	0.028	7.500	3.441	0.028
8.0000	3.441	0.028	8.000	3.441	0.028
8.5000	3.441	0.037	8.500	3.441	0.037
9.0000	3.451	0.028	9.000	3.451	0.028
9.5000	3.470	0.037	9.500	3.470	0.037
10.0000	3.480	0.028	10.000	3.480	0.028
11.0000	3.489	0.037	11.000	3.489	0.037
12.0000	3.499	0.028	12.000	3.499	0.028
13.0000	3.508	0.037	13.000	3.508	0.037
14.0000	3.508	0.037	14.000	3.508	0.037
15.0000	3.508	0.037	15.000	3.508	0.037
16.0000	3.508	0.047	16.000	3.508	0.047
17.0000	3.518	0.037	17.000	3.518	0.037
18.0000	3.584	0.047	18.000	3.584	0.047
19.0000	3.470	0.047	19.000	3.470	0.047
20.0000	3.394	0.047	20.000	3.394	0.047
21.0000	3.394	0.047	21.000	3.394	0.047
22.0000	3.394	0.047	22.000	3.394	0.047
23.0000	3.384	0.047	23.000	3.384	0.047
24.0000	3.441	0.047	24.000	3.441	0.047
25.0000	3.451	0.047	25.000	3.451	0.047
26.0000	3.451	0.047	26.000	3.451	0.047
27.0000	3.432	0.047	27.000	3.432	0.047
28.0000	3.422	0.047	28.000	3.422	0.047
29.0000	3.356	0.056	29.000	3.356	0.056
30.0000	3.279	0.047	30.000	3.279	0.047
31.0000	3.184	0.047	31.000	3.184	0.047

TABLE A-16 (continued)
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
32.0000	3.079	0.065	32.000	3.079	0.065
33.0000	3.060	0.056	33.000	3.060	0.056
34.0000	3.060	0.065	34.000	3.060	0.065
35.0000	3.060	0.065	35.000	3.060	0.065
36.0000	3.041	0.065	36.000	3.041	0.065
37.0000	3.031	0.065	37.000	3.031	0.065
38.0000	3.041	0.065	38.000	3.041	0.065
39.0000	3.031	0.056	39.000	3.031	0.056
40.0000	3.003	0.056	40.000	3.003	0.056
41.0000	3.003	0.056	41.000	3.003	0.056
42.0000	3.012	0.065	42.000	3.012	0.065
43.0000	3.012	0.075	43.000	3.012	0.075
44.0000	3.003	0.065	44.000	3.003	0.065
45.0000	3.003	0.075	45.000	3.003	0.075
46.0000	2.993	0.075	46.000	2.993	0.075
47.0000	2.974	0.065	47.000	2.974	0.065
48.0000	2.974	0.065	48.000	2.974	0.065
49.0000	2.984	0.075	49.000	2.984	0.075
50.0000	2.984	0.084	50.000	2.984	0.084
51.0000	2.965	0.084	51.000	2.965	0.084
52.0000	2.860	0.075	52.000	2.860	0.075
53.0000	2.860	0.075	53.000	2.860	0.075
54.0000	2.850	0.065	54.000	2.850	0.065
55.0000	2.850	0.065	55.000	2.850	0.065
56.0000	2.841	0.056	56.000	2.841	0.056
57.0000	2.850	0.056	57.000	2.850	0.056
58.0000	2.831	0.056	58.000	2.831	0.056
59.0000	2.850	0.065	59.000	2.850	0.065
60.0000	2.841	0.075	60.000	2.841	0.075
61.0000	2.850	0.065	61.000	2.850	0.065
62.0000	2.850	0.065	62.000	2.850	0.065
63.0000	2.850	0.065	63.000	2.850	0.065
64.0000	2.850	0.065	64.000	2.850	0.065
65.0000	2.850	0.056	65.000	2.850	0.056
66.0000	2.841	0.056	66.000	2.841	0.056
67.0000	2.850	0.065	67.000	2.850	0.065
68.0000	2.850	0.056	68.000	2.850	0.056
69.0000	2.841	0.065	69.000	2.841	0.065
70.0000	2.850	0.056	70.000	2.850	0.056
71.0000	2.860	0.056	71.000	2.860	0.056
72.0000	2.869	0.075	72.000	2.869	0.075
73.0000	2.869	0.075	73.000	2.869	0.075
74.0000	2.869	0.065	74.000	2.869	0.065
75.0000	2.860	0.065	75.000	2.860	0.065
76.0000	2.841	0.037	76.000	2.841	0.037
77.0000	2.860	0.047	77.000	2.860	0.047
78.0000	2.869	0.056	78.000	2.869	0.056
79.0000	2.850	0.047	79.000	2.850	0.047
80.0000	2.841	0.037	80.000	2.841	0.037
81.0000	2.831	0.037	81.000	2.831	0.037

TABLE A-17
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$ with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 4.0 gpm

s_f = 2.831 feet

s_i = 0.000 feet

s = 2.831 feet

$(Q/s)_p$ = 1.413 gpm/ft

L = 20 feet

r = 2 inches
 0.167 feet

B = 58 feet

Q/s = 2.957 gpm/ft

TABLE A-17 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est}t / r^2S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 2.957 gpm/ft

T_{est} = 403 gpd/ft

t = 81 minutes
 = 0.056 days

r = 2 inches
 0.167 feet

S = 0.001

T = 4207 gpd/ft
 562 ft²/day
 6.05E+00 cm²/sec

TABLE A-17 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 1ST STEP PUMPING, WELL S2

Hydraulic conductivity:

$$k = T/B$$

Where:

k = hydraulic conductivity (in ft/day)

T = transmissivity (in ft²/day)

B = aquifer thickness (in feet)

For:

T = 562 ft²/day

B = 58 feet

k = 9.70 ft/day
 = 3.42E-03 cm/sec
 = 3.42E-05 m/sec

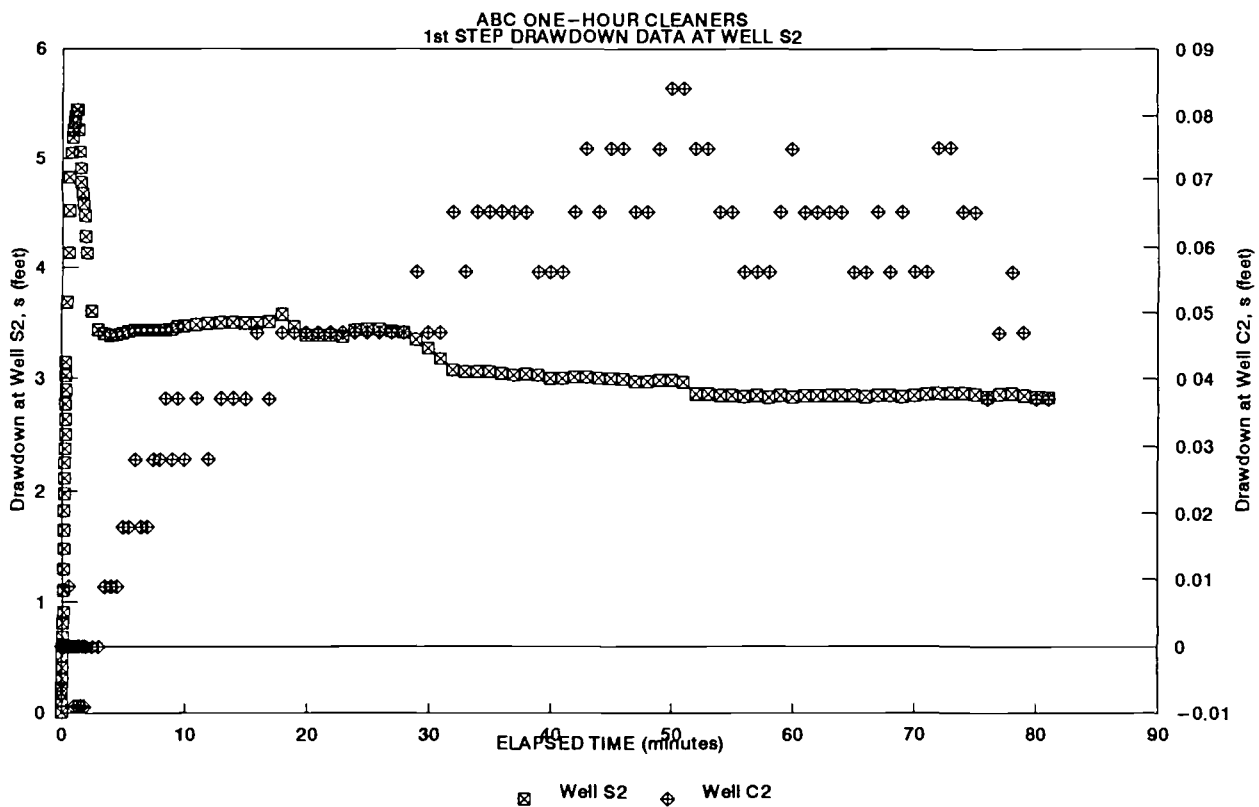


TABLE A-18
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

SE2000
 Environmental Logger
 Unit# 2
 Data downloaded: 06/04 14:19

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	S-2	C-2
Reference	0.000	0.000
Linearity	1.000	1.000
Scale factor	30.249	29.867
Offset	-0.169	-0.009
Delay mSEC	50	50

Drawdown data, 2nd step pumping, well s2
 Test 2, Step 1
 Started at 06/03/92, 13:19:28

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
0.0000	2.841	0.047	0.0000	2.841	0.047
0.0083	2.841	0.037	0.0083	2.841	0.037
0.0166	2.841	0.028	0.0166	2.841	0.028
0.0250	2.841	0.037	0.0250	2.841	0.037
0.0333	2.841	0.037	0.0333	2.841	0.037
0.0416	2.841	0.037	0.0416	2.841	0.037
0.0500	2.841	0.028	0.0500	2.841	0.028
0.0583	2.841	0.037	0.0583	2.841	0.037
0.0666	2.841	0.037	0.0666	2.841	0.037
0.0750	2.831	0.037	0.0750	2.831	0.037
0.0833	2.841	0.037	0.0833	2.841	0.037
0.1000	2.841	0.037	0.1000	2.841	0.037
0.1166	2.841	0.028	0.1166	2.841	0.028
0.1333	2.841	0.037	0.1333	2.841	0.037
0.1500	2.841	0.037	0.1500	2.841	0.037
0.1666	2.841	0.037	0.1666	2.841	0.037
0.1833	2.841	0.037	0.1833	2.841	0.037
0.2000	2.841	0.037	0.2000	2.841	0.037
0.2166	2.841	0.037	0.2166	2.841	0.037
0.2333	2.841	0.037	0.2333	2.841	0.037
0.2500	2.841	0.037	0.2500	2.841	0.037
0.2666	2.841	0.037	0.2666	2.841	0.037
0.2833	2.841	0.037	0.2833	2.841	0.037
0.3000	2.841	0.037	0.3000	2.841	0.037
0.3166	2.841	0.037	0.3166	2.841	0.037
0.3333	2.841	0.037	0.3333	2.841	0.037
0.4166	2.850	0.037	0.4166	2.850	0.037
0.5000	2.850	0.047	0.5000	2.850	0.047
0.5833	2.841	0.037	0.5833	2.841	0.037
0.6666	2.841	0.037	0.6666	2.841	0.037
0.7500	2.841	0.037	0.7500	2.841	0.037
0.8333	2.841	0.037	0.8333	2.841	0.037
0.9166	2.841	0.037	0.9166	2.841	0.037

TABLE A-18 (continued)
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
1.0000	2.841	0.037	1.0000	2.841	0.037
1.0833	2.841	0.037	1.0833	2.841	0.037
1.1666	2.841	0.037	1.1666	2.841	0.037
1.2500	2.841	0.037	1.2500	2.841	0.037
1.3333	2.850	0.037	1.3333	2.850	0.037
1.4166	2.841	0.037	1.4166	2.841	0.037
1.5000	2.850	0.037	1.5000	2.850	0.037
1.5833	2.869	0.037	1.5833	2.869	0.037
1.6666	2.898	0.037	1.6666	2.898	0.037
1.7500	2.955	0.037	1.7500	2.955	0.037
1.8333	3.022	0.037	1.8333	3.022	0.037
1.9166	3.079	0.047	1.9166	3.079	0.047
2.0000	3.127	0.047	2.0000	3.127	0.047
2.5000	3.222	0.047	2.5000	3.222	0.047
3.0000	3.270	0.037	3.0000	3.270	0.037
3.5000	3.298	0.037	3.5000	3.298	0.037
4.0000	3.270	0.028	4.0000	3.270	0.028
4.5000	3.260	0.037	4.5000	3.260	0.037
5.0000	3.251	0.037	5.0000	3.251	0.037
5.5000	3.356	0.037	5.5000	3.356	0.037
6.0000	3.460	0.037	6.0000	3.460	0.037
6.5000	3.470	0.037	6.5000	3.470	0.037
7.0000	3.460	0.037	7.0000	3.460	0.037
7.5000	3.499	0.037	7.5000	3.499	0.037
8.0000	3.594	0.037	8.0000	3.594	0.037
8.5000	3.613	0.037	8.5000	3.613	0.037
9.0000	3.556	0.047	9.0000	3.556	0.047
9.5000	3.527	0.037	9.5000	3.527	0.037
10.0000	3.537	0.037	10.0000	3.537	0.037
11.0000	3.546	0.037	11.0000	3.546	0.037
12.0000	3.546	0.047	12.0000	3.546	0.047
13.0000	3.546	0.047	13.0000	3.546	0.047
14.0000	3.527	0.037	14.0000	3.527	0.037
15.0000	3.508	0.037	15.0000	3.508	0.037
16.0000	3.499	0.037	16.0000	3.499	0.037
17.0000	3.489	0.037	17.0000	3.489	0.037
18.0000	3.489	0.047	18.0000	3.489	0.047
19.0000	3.480	0.037	19.0000	3.480	0.037
20.0000	3.489	0.047	20.0000	3.489	0.047
21.0000	3.489	0.047	21.0000	3.489	0.047
22.0000	3.489	0.037	22.0000	3.489	0.037
23.0000	3.508	0.037	23.0000	3.508	0.037
24.0000	3.518	0.047	24.0000	3.518	0.047
25.0000	3.518	0.047	25.0000	3.518	0.047
26.0000	3.518	0.047	26.0000	3.518	0.047
27.0000	3.508	0.047	27.0000	3.508	0.047
28.0000	3.556	0.056	28.0000	3.556	0.056
29.0000	3.537	0.047	29.0000	3.537	0.047
30.0000	3.527	0.047	30.0000	3.527	0.047

TABLE A-18 (continued)
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
31.0000	3.527	0.047	31.0000	3.527	0.047
32.0000	3.527	0.047	32.0000	3.527	0.047
42.0000	3.604	0.037	42.0000	3.604	0.037
43.0000	3.604	0.037	43.0000	3.604	0.037
44.0000	3.613	0.047	44.0000	3.613	0.047
45.0000	3.613	0.047	45.0000	3.613	0.047
46.0000	3.613	0.047	46.0000	3.613	0.047
47.0000	3.613	0.037	47.0000	3.613	0.037
48.0000	3.604	0.037	48.0000	3.604	0.037
49.0000	3.613	0.047	49.0000	3.613	0.047
50.0000	3.613	0.047	50.0000	3.613	0.047
51.0000	3.594	0.047	51.0000	3.594	0.047
52.0000	3.584	0.047	52.0000	3.584	0.047
53.0000	3.584	0.047	53.0000	3.584	0.047
54.0000	3.584	0.037	54.0000	3.584	0.037
55.0000	3.584	0.037	55.0000	3.584	0.037
56.0000	3.584	0.037	56.0000	3.584	0.037
57.0000	3.584	0.037	57.0000	3.584	0.037
58.0000	3.575	0.037	58.0000	3.575	0.037
59.0000	3.575	0.047	59.0000	3.575	0.047
60.0000	3.575	0.037	60.0000	3.575	0.037
61.0000	3.575	0.047	61.0000	3.575	0.047
62.0000	3.584	0.047	62.0000	3.584	0.047
63.0000	3.556	0.056	63.0000	3.556	0.056
64.0000	3.556	0.047	64.0000	3.556	0.047
65.0000	3.556	0.047	65.0000	3.556	0.047

TABLE A-19
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$, with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 5.0 gpm

s_f = 3.556 feet

s_i = 0.000 feet

s = 3.556 feet

$(Q/s)_p$ = 1.406 gpm/ft

L = 20 feet

r = 2 inches
 0.167 feet

B = 58 feet

Q/s = 2.943 gpm/ft

TABLE A-19 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est}t / r^2S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 2.943 gpm/ft

T_{est} = 403 gpd/ft

t = 65 minutes
 = 0.045 days

r = 2 inches
 0.167 feet

S = 0.001

T = 4112 gpd/ft
 550 ft²/day
 5.91E+00 cm²/sec

TABLE A-19 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 2ND STEP PUMPING, WELL S2

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 550 ft²/day

$B =$ 58 feet

$k =$ 9.48 ft/day
 = 3.34E-03 cm/sec
 = 3.34E-05 m/sec

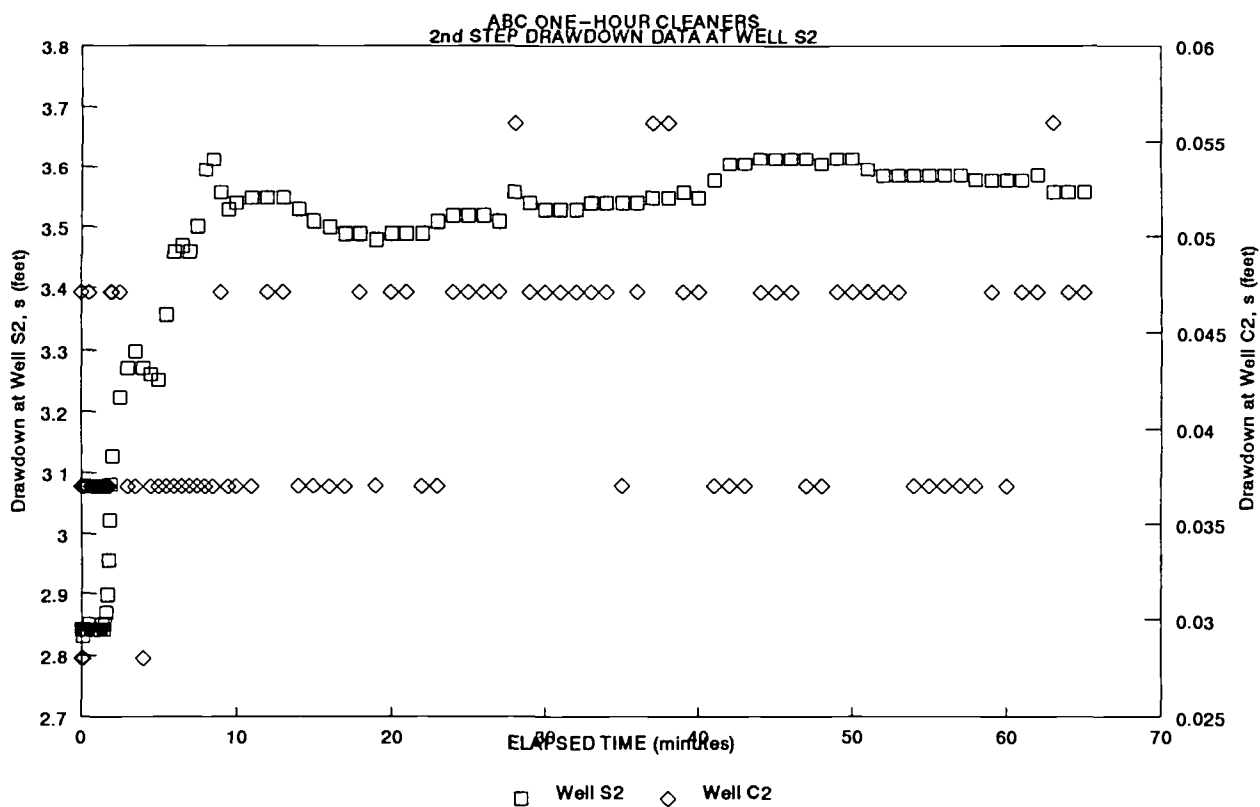


TABLE A-20
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

SE2000

Environmental Logger

Unit# 2

Data downloaded: 06/04 14:19

Type Mode I.D.	Level (F) TOC S-2	Level (F) TOC C-2
Reference	0.000	0.000
Linearity	1.000	1.000
Scale factor	30.249	29.867
Offset	-0.169	-0.009
Delay mSEC	50	50

Drawdown data, 3rd step pumping, well s2

Test 2, Step 2

Started at 06/03/92, 13:19:28

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
0.0000	3.584	0.047	0.000	3.584	0.047
0.0083	3.594	0.047	0.008	3.594	0.047
0.0166	3.604	0.047	0.017	3.604	0.047
0.0250	3.623	0.056	0.025	3.623	0.056
0.0333	3.642	0.047	0.033	3.642	0.047
0.0416	3.670	0.047	0.042	3.670	0.047
0.0500	3.699	0.047	0.050	3.699	0.047
0.0583	3.718	0.047	0.058	3.718	0.047
0.0666	3.747	0.047	0.067	3.747	0.047
0.0750	3.775	0.047	0.075	3.775	0.047
0.0833	3.794	0.047	0.083	3.794	0.047
0.1000	3.842	0.047	0.100	3.842	0.047
0.1166	3.890	0.047	0.117	3.890	0.047
0.1333	3.937	0.047	0.133	3.937	0.047
0.1500	3.975	0.047	0.150	3.975	0.047
0.1666	4.013	0.047	0.167	4.013	0.047
0.1833	4.052	0.047	0.183	4.052	0.047
0.2000	4.090	0.047	0.200	4.090	0.047
0.2166	4.128	0.047	0.217	4.128	0.047
0.2333	4.166	0.047	0.233	4.166	0.047
0.2500	4.195	0.047	0.250	4.195	0.047
0.2666	4.233	0.047	0.267	4.233	0.047
0.2833	4.271	0.047	0.283	4.271	0.047
0.3000	4.300	0.047	0.300	4.300	0.047
0.3166	4.338	0.047	0.317	4.338	0.047
0.3333	4.366	0.047	0.333	4.366	0.047
0.4166	4.500	0.047	0.417	4.500	0.047
0.5000	4.624	0.047	0.500	4.624	0.047
0.5833	4.729	0.056	0.583	4.729	0.056
0.6666	4.814	0.047	0.667	4.814	0.047
0.7500	4.910	0.047	0.750	4.910	0.047
0.8333	4.996	0.047	0.833	4.996	0.047
0.9166	5.072	0.047	0.917	5.072	0.047

TABLE A-20 (continued)
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
1.0000	5.148	0.047	1.000	5.148	0.047
1.0833	5.224	0.047	1.083	5.224	0.047
1.1666	5.291	0.047	1.167	5.291	0.047
1.2500	5.348	0.047	1.250	5.348	0.047
1.3333	5.415	0.047	1.333	5.415	0.047
1.4166	5.472	0.047	1.417	5.472	0.047
1.5000	5.529	0.047	1.500	5.529	0.047
1.5833	5.577	0.047	1.583	5.577	0.047
1.6666	5.615	0.047	1.667	5.615	0.047
1.7500	5.644	0.047	1.750	5.644	0.047
1.8333	5.672	0.047	1.833	5.672	0.047
1.9166	5.682	0.047	1.917	5.682	0.047
2.0000	5.711	0.047	2.000	5.711	0.047
2.5000	5.777	0.047	2.500	5.777	0.047
3.0000	5.806	0.047	3.000	5.806	0.047
3.5000	5.825	0.047	3.500	5.825	0.047
4.0000	5.844	0.056	4.000	5.844	0.056
4.5000	5.863	0.056	4.500	5.863	0.056
5.0000	5.911	0.056	5.000	5.911	0.056
5.5000	5.949	0.056	5.500	5.949	0.056
6.0000	5.968	0.056	6.000	5.968	0.056
6.5000	5.987	0.056	6.500	5.987	0.056
7.0000	6.025	0.065	7.000	6.025	0.065
7.5000	6.044	0.065	7.500	6.044	0.065
8.0000	6.054	0.065	8.000	6.054	0.065
8.5000	6.063	0.065	8.500	6.063	0.065
9.0000	6.082	0.056	9.000	6.082	0.056
9.5000	6.111	0.056	9.500	6.111	0.056
10.0000	6.121	0.065	10.000	6.121	0.065
11.0000	6.121	0.065	11.000	6.121	0.065
12.0000	6.130	0.065	12.000	6.130	0.065
13.0000	6.140	0.065	13.000	6.140	0.065
14.0000	6.178	0.065	14.000	6.178	0.065
15.0000	6.216	0.065	15.000	6.216	0.065
16.0000	6.225	0.065	16.000	6.225	0.065
17.0000	6.225	0.075	17.000	6.225	0.075
18.0000	6.225	0.075	18.000	6.225	0.075
19.0000	6.235	0.075	19.000	6.235	0.075
20.0000	6.235	0.075	20.000	6.235	0.075
21.0000	6.235	0.084	21.000	6.235	0.084
22.0000	6.245	0.084	22.000	6.245	0.084
23.0000	6.245	0.094	23.000	6.245	0.094
24.0000	6.245	0.084	24.000	6.245	0.084
25.0000	6.235	0.084	25.000	6.235	0.084
26.0000	6.235	0.084	26.000	6.235	0.084
27.0000	6.235	0.094	27.000	6.235	0.094
28.0000	6.245	0.094	28.000	6.245	0.094
29.0000	6.245	0.103	29.000	6.245	0.103
30.0000	6.245	0.103	30.000	6.245	0.103
31.0000	6.245	0.103	31.000	6.245	0.103

TABLE A-20 (continued)
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
32.0000	6.245	0.103	32.000	6.245	0.103
33.0000	6.235	0.112	33.000	6.235	0.112
34.0000	6.235	0.112	34.000	6.235	0.112
35.0000	6.225	0.103	35.000	6.225	0.103
36.0000	6.225	0.103	36.000	6.225	0.103
37.0000	6.225	0.094	37.000	6.225	0.094
38.0000	6.225	0.103	38.000	6.225	0.103
39.0000	6.225	0.112	39.000	6.225	0.112
40.0000	6.225	0.103	40.000	6.225	0.103
41.0000	6.225	0.112	41.000	6.225	0.112
42.0000	6.225	0.112	42.000	6.225	0.112
43.0000	6.225	0.112	43.000	6.225	0.112
44.0000	6.225	0.103	44.000	6.225	0.103
45.0000	6.216	0.103	45.000	6.216	0.103
46.0000	6.206	0.112	46.000	6.206	0.112
47.0000	6.206	0.112	47.000	6.206	0.112
48.0000	6.216	0.103	48.000	6.216	0.103
49.0000	6.216	0.103	49.000	6.216	0.103
50.0000	6.216	0.103	50.000	6.216	0.103
51.0000	6.225	0.112	51.000	6.225	0.112
52.0000	6.206	0.112	52.000	6.206	0.112
53.0000	6.206	0.112	53.000	6.206	0.112
54.0000	6.206	0.122	54.000	6.206	0.122
55.0000	6.197	0.122	55.000	6.197	0.122
56.0000	6.187	0.122	56.000	6.187	0.122
57.0000	6.168	0.122	57.000	6.168	0.122
58.0000	6.140	0.122	58.000	6.140	0.122
59.0000	6.140	0.112	59.000	6.140	0.112
60.0000	6.140	0.112	60.000	6.140	0.112
61.0000	6.130	0.112	61.000	6.130	0.112
62.0000	6.130	0.112	62.000	6.130	0.112
63.0000	6.130	0.112	63.000	6.130	0.112
64.0000	6.130	0.112	64.000	6.130	0.112
65.0000	6.140	0.112	65.000	6.140	0.112
66.0000	6.130	0.112	66.000	6.130	0.112
67.0000	6.130	0.112	67.000	6.130	0.112
68.0000	6.130	0.112	68.000	6.130	0.112
69.0000	6.140	0.112	69.000	6.140	0.112
70.0000	6.140	0.112	70.000	6.140	0.112
71.0000	6.140	0.112	71.000	6.140	0.112
72.0000	6.140	0.112	72.000	6.140	0.112
73.0000	6.140	0.112	73.000	6.140	0.112
74.0000	6.149	0.122	74.000	6.149	0.122
75.0000	6.149	0.122	75.000	6.149	0.122
76.0000	6.149	0.122	76.000	6.149	0.122
77.0000	6.149	0.131	77.000	6.149	0.131
78.0000	6.140	0.122	78.000	6.140	0.122
79.0000	6.140	0.122	79.000	6.140	0.122
80.0000	6.140	0.122	80.000	6.140	0.122
81.0000	6.130	0.122	81.000	6.130	0.122

TABLE A-20 (continued)
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
82.0000	6.130	0.122	82.000	6.130	0.122
83.0000	6.121	0.131	83.000	6.121	0.131
84.0000	6.111	0.112	84.000	6.111	0.112
85.0000	6.111	0.112	85.000	6.111	0.112
86.0000	6.111	0.112	86.000	6.111	0.112
87.0000	6.111	0.122	87.000	6.111	0.122
88.0000	6.102	0.122	88.000	6.102	0.122
89.0000	6.111	0.122	89.000	6.111	0.122
90.0000	6.102	0.112	90.000	6.102	0.112
91.0000	6.102	0.112	91.000	6.102	0.112
92.0000	6.102	0.122	92.000	6.102	0.122
93.0000	6.092	0.112	93.000	6.092	0.112
94.0000	6.092	0.112	94.000	6.092	0.112
95.0000	6.092	0.112	95.000	6.092	0.112
96.0000	6.082	0.103	96.000	6.082	0.103
97.0000	6.063	0.112	97.000	6.063	0.112
98.0000	6.063	0.112	98.000	6.063	0.112
99.0000	6.073	0.112	99.000	6.073	0.112
100.0000	6.073	0.112	100.000	6.073	0.112
101.0000	6.082	0.112	101.000	6.082	0.112

TABLE A-21
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Specific Capacity:

$$Q/s = (Q/s)_p / \left[(L/B) * \left\{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \right\} \right]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$, with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 7.0 gpm

s_f = 6.082 feet

s_i = 0.000 feet

s = 6.082 feet

$(Q/s)_p$ = 1.151 gpm/ft

L = 20 feet

r = 2 inches
 0.167 feet

B = 58 feet

Q/s = 2.409 gpm/ft

TABLE A-21 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est}t / r^2S])$$

Where:

T = transmissivity (in gpd/ft)

Q/s = specific capacity for fully penetrating well (in gpm/ft)

T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)

t = time since pumping began (in days)

r = radius of well (in feet)

S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

Q/s = 2.409 gpm/ft

T_{est} = 403 gpd/ft

t = 101 minutes
 = 0.070 days

r = 2 inches
 0.167 feet

S = 0.001

T = 3488 gpd/ft
 466 ft²/day
 5.01E+00 cm²/sec

TABLE A-21 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 3RD STEP PUMPING, WELL S2

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 466 ft²/day

$B =$ 58 feet

$k =$ 8.04 ft/day
 = 2.84E-03 cm/sec
 = 2.84E-05 m/sec

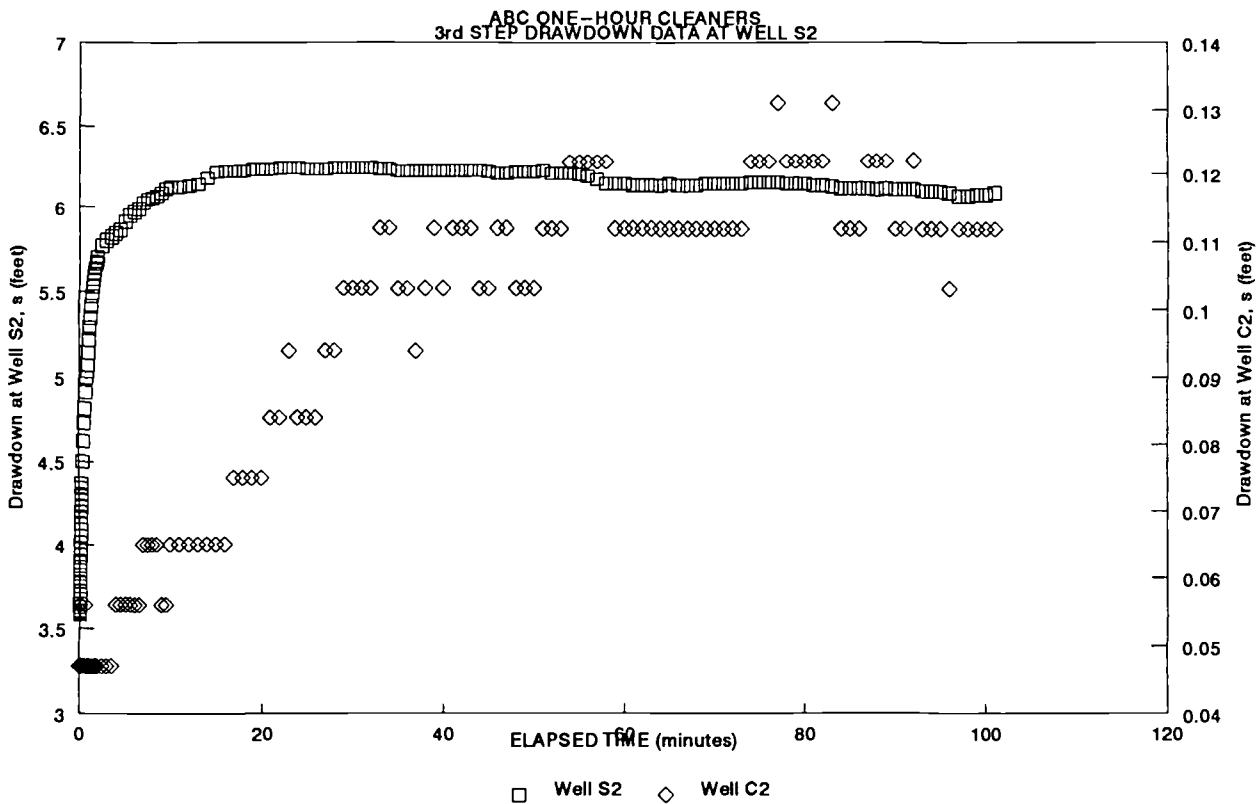


TABLE A-22
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

SE2000
 Environmental Logger
 Unit# 2
 Data downloaded: 06/04 14:22

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	S-2	C-2
Reference	0.000	0.000
Linearity	1.000	1.000
Scale factor	30.249	29.867
Offset	-0.169	-0.009
Delay mSEC	50	50

Drawdown data, 4th step pumping, well s2
 Test 2, Step 3
 Started at 06/03/92, 15:00:41

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
0.0000	6.073	0.122	0.000	6.073	0.122
0.0083	6.082	0.122	0.008	6.082	0.122
0.0166	6.082	0.122	0.017	6.082	0.122
0.0250	6.092	0.122	0.025	6.092	0.122
0.0333	6.092	0.122	0.033	6.092	0.122
0.0416	6.102	0.122	0.042	6.102	0.122
0.0500	6.111	0.122	0.050	6.111	0.122
0.0583	6.111	0.122	0.058	6.111	0.122
0.0666	6.121	0.112	0.067	6.121	0.112
0.0750	6.130	0.122	0.075	6.130	0.122
0.0833	6.140	0.112	0.083	6.140	0.112
0.1000	6.149	0.122	0.100	6.149	0.122
0.1166	6.159	0.122	0.117	6.159	0.122
0.1333	6.178	0.122	0.133	6.178	0.122
0.1500	6.187	0.122	0.150	6.187	0.122
0.1666	6.197	0.122	0.167	6.197	0.122
0.1833	6.206	0.122	0.183	6.206	0.122
0.2000	6.216	0.122	0.200	6.216	0.122
0.2166	6.216	0.122	0.217	6.216	0.122
0.2333	6.225	0.122	0.233	6.225	0.122
0.2500	6.235	0.122	0.250	6.235	0.122
0.2666	6.235	0.122	0.267	6.235	0.122
0.2833	6.245	0.122	0.283	6.245	0.122
0.3000	6.254	0.122	0.300	6.254	0.122
0.3166	6.254	0.122	0.317	6.254	0.122
0.3333	6.273	0.122	0.333	6.273	0.122
0.4166	6.302	0.122	0.417	6.302	0.122
0.5000	6.330	0.122	0.500	6.330	0.122
0.5833	6.359	0.122	0.583	6.359	0.122
0.6666	6.388	0.122	0.667	6.388	0.122
0.7500	6.426	0.122	0.750	6.426	0.122
0.8333	6.445	0.122	0.833	6.445	0.122
0.9166	6.473	0.112	0.917	6.473	0.112

TABLE A-22 (continued)
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
1.0000	6.492	0.122	1.000	6.492	0.122
1.0833	6.511	0.112	1.083	6.511	0.112
1.1666	6.531	0.112	1.167	6.531	0.112
1.2500	6.550	0.112	1.250	6.550	0.112
1.3333	6.569	0.112	1.333	6.569	0.112
1.4166	6.578	0.112	1.417	6.578	0.112
1.5000	6.597	0.112	1.500	6.597	0.112
1.5833	6.607	0.112	1.583	6.607	0.112
1.6666	6.626	0.112	1.667	6.626	0.112
1.7500	6.635	0.112	1.750	6.635	0.112
1.8333	6.645	0.122	1.833	6.645	0.122
1.9166	6.655	0.112	1.917	6.655	0.112
2.0000	6.664	0.112	2.000	6.664	0.112
2.5000	6.712	0.112	2.500	6.712	0.112
3.0000	6.740	0.112	3.000	6.740	0.112
3.5000	6.750	0.103	3.500	6.750	0.103
4.0000	6.769	0.122	4.000	6.769	0.122
4.5000	6.778	0.112	4.500	6.778	0.112
5.0000	6.788	0.112	5.000	6.788	0.112
5.5000	6.798	0.112	5.500	6.798	0.112
6.0000	6.798	0.112	6.000	6.798	0.112
6.5000	6.798	0.112	6.500	6.798	0.112
7.0000	6.798	0.112	7.000	6.798	0.112
7.5000	6.807	0.112	7.500	6.807	0.112
8.0000	6.817	0.112	8.000	6.817	0.112
8.5000	6.826	0.122	8.500	6.826	0.122
9.0000	6.826	0.122	9.000	6.826	0.122
9.5000	6.817	0.122	9.500	6.817	0.122
10.0000	6.817	0.122	10.000	6.817	0.122
11.0000	6.826	0.103	11.000	6.826	0.103
12.0000	6.836	0.103	12.000	6.836	0.103
13.0000	6.826	0.103	13.000	6.826	0.103
14.0000	6.826	0.103	14.000	6.826	0.103
15.0000	6.826	0.103	15.000	6.826	0.103
16.0000	6.826	0.103	16.000	6.826	0.103
17.0000	6.836	0.112	17.000	6.836	0.112
18.0000	6.826	0.122	18.000	6.826	0.122
19.0000	6.826	0.112	19.000	6.826	0.112
20.0000	6.836	0.122	20.000	6.836	0.122
21.0000	6.826	0.103	21.000	6.826	0.103
22.0000	6.836	0.112	22.000	6.836	0.112
23.0000	6.826	0.103	23.000	6.826	0.103
24.0000	6.826	0.103	24.000	6.826	0.103
25.0000	6.826	0.103	25.000	6.826	0.103
26.0000	6.826	0.103	26.000	6.826	0.103
27.0000	6.826	0.103	27.000	6.826	0.103
28.0000	6.826	0.103	28.000	6.826	0.103
29.0000	6.836	0.103	29.000	6.836	0.103
30.0000	6.836	0.112	30.000	6.836	0.112
31.0000	6.836	0.112	31.000	6.836	0.112

TABLE A-22 (continued)
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
32.0000	6.826	0.103	32.000	6.826	0.103
33.0000	6.836	0.112	33.000	6.836	0.112
34.0000	6.826	0.112	34.000	6.826	0.112
35.0000	6.836	0.112	35.000	6.836	0.112
36.0000	6.836	0.112	36.000	6.836	0.112
37.0000	6.836	0.112	37.000	6.836	0.112
38.0000	6.836	0.112	38.000	6.836	0.112
39.0000	6.855	0.112	39.000	6.855	0.112
40.0000	6.864	0.103	40.000	6.864	0.103
41.0000	6.883	0.112	41.000	6.883	0.112
42.0000	6.883	0.112	42.000	6.883	0.112
43.0000	6.893	0.112	43.000	6.893	0.112
44.0000	6.893	0.112	44.000	6.893	0.112
45.0000	6.902	0.112	45.000	6.902	0.112
46.0000	6.902	0.112	46.000	6.902	0.112
47.0000	6.893	0.122	47.000	6.893	0.122
48.0000	6.883	0.122	48.000	6.883	0.122
49.0000	6.893	0.131	49.000	6.893	0.131
50.0000	6.893	0.112	50.000	6.893	0.112
51.0000	6.902	0.112	51.000	6.902	0.112
52.0000	6.902	0.112	52.000	6.902	0.112
53.0000	6.893	0.112	53.000	6.893	0.112
54.0000	6.902	0.112	54.000	6.902	0.112
55.0000	6.902	0.112	55.000	6.902	0.112
56.0000	6.902	0.112	56.000	6.902	0.112
57.0000	6.902	0.112	57.000	6.902	0.112
58.0000	6.902	0.112	58.000	6.902	0.112
59.0000	6.902	0.112	59.000	6.902	0.112
60.0000	6.893	0.112	60.000	6.893	0.112
61.0000	6.893	0.112	61.000	6.893	0.112
62.0000	6.902	0.112	62.000	6.902	0.112
63.0000	6.902	0.112	63.000	6.902	0.112
64.0000	6.902	0.112	64.000	6.902	0.112
65.0000	6.902	0.112	65.000	6.902	0.112
66.0000	6.902	0.112	66.000	6.902	0.112
67.0000	6.893	0.122	67.000	6.893	0.122
68.0000	6.893	0.122	68.000	6.893	0.122
69.0000	6.893	0.112	69.000	6.893	0.112
70.0000	6.902	0.112	70.000	6.902	0.112
71.0000	6.893	0.112	71.000	6.893	0.112
72.0000	6.902	0.112	72.000	6.902	0.112
73.0000	6.902	0.112	73.000	6.902	0.112
74.0000	6.902	0.103	74.000	6.902	0.103
75.0000	6.902	0.103	75.000	6.902	0.103
76.0000	6.902	0.112	76.000	6.902	0.112
77.0000	6.902	0.112	77.000	6.902	0.112
78.0000	6.893	0.112	78.000	6.893	0.112

TABLE A-23
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

Specific Capacity:

$$Q/s = (Q/s)_p / [(L/B) * \{ (1 + 7(r/(2L))^{0.5} * \cos(\pi*L/2)) \}]$$

Where:

Q/s = specific capacity for fully penetrating well (in gpm/ft)

$(Q/s)_p$ = measured specific capacity of partially penetrating well (in gpm/ft)

Where:

Q = flow rate, in GPM

s = total drawdown, in feet

Where:

$s = s_f - s_i$ with:

s_f = final water level (in feet)

s_i = initial water level (in feet)

L = well screen length (in feet)

r = radius of well (in feet)

B = aquifer thickness (in feet)

For:

Q = 8.8 gpm

s_f = 6.893 feet

s_i = 0.000 feet

s = 6.893 feet

$(Q/s)_p$ = 1.277 gpm/ft

L = 20 feet

r = 2 inches

0.167 feet

B = 58 feet

Q/s = 2.672 gpm/ft

TABLE A-23 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

Transmissivity:

$$T = (Q/s)(264 \log [0.3 T_{est}t / r^2S])$$

Where:

- T = transmissivity (in gpd/ft)
- Q/s = specific capacity for fully penetrating well (in gpm/ft)
- T_{est} = estimated transmissivity, taken from recovery data (in gpd/ft)
- t = time since pumping began (in days)
- r = radius of well (in feet)
- S = storage coefficient, estimated for typical confined aquifer (dimensionless)

For:

- Q/s = 2.672 gpm/ft
- T_{est} = 403 gpd/ft
- t = 78 minutes
= 0.054 days
- r = 2 inches
0.167 feet
- S = 0.001
- T = 3790 gpd/ft
507 ft²/day
5.45E+00 cm²/sec

TABLE A-23 (continued)
 HYDROLOGIC ANALYSIS
 DRAWDOWN DATA, 4TH STEP PUMPING, WELL S2

Hydraulic conductivity:

$k = T/B$

Where:

$k =$ hydraulic conductivity (in ft/day)

$T =$ transmissivity (in ft²/day)

$B =$ aquifer thickness (in feet)

For:

$T =$ 507 ft²/day

$B =$ 58 feet

$k =$ 8.74 ft/day
 = 3.08E-03 cm/sec
 = 3.08E-05 m/sec

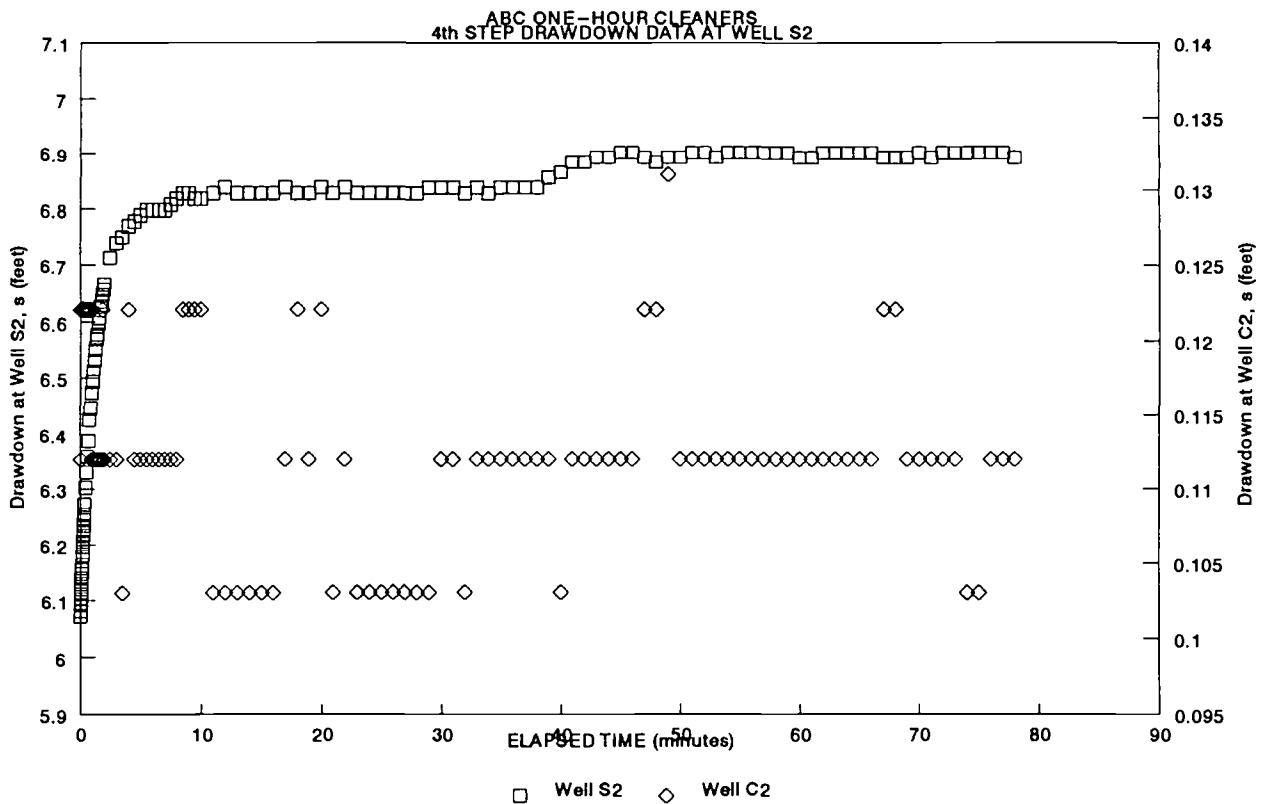


TABLE A-24
RECOVERY DATA FROM PUMPING OF WELL S2

SE2000
Environmental Logger
Unit# 2
Data downloaded: 06/04 14:28

Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	S-2	C-2
Reference	0.000	0.000
Linearity	0.070	0.060
Scale factor	30.249	29.867
Offset	-0.169	-0.009
Delay mSEC	50	50

Recovery data from pumping of well S2
Test 3, Step 2
Started at 06/03/92, 17:00:40

ET for final pumping step = 78 minutes

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
0.0000	6.817	0.084	0.0000	NA	-6.8170	-0.0840
0.0083	6.807	0.084	0.0083	3.9731	-6.8070	-0.0840
0.0166	6.769	0.084	0.0166	3.6721	-6.7690	-0.0840
0.0250	6.721	0.084	0.0250	3.4943	-6.7210	-0.0840
0.0333	6.664	0.075	0.0333	3.3698	-6.6640	-0.0750
0.0416	6.607	0.084	0.0416	3.2732	-6.6070	-0.0840
0.0500	6.531	0.075	0.0500	3.1934	-6.5310	-0.0750
0.0583	6.464	0.084	0.0583	3.1268	-6.4640	-0.0840
0.0666	6.397	0.084	0.0666	3.0690	-6.3970	-0.0840
0.0750	6.330	0.084	0.0750	3.0175	-6.3300	-0.0840
0.0833	6.264	0.075	0.0833	2.9719	-6.2640	-0.0750
0.1000	6.149	0.084	0.1000	2.8927	-6.1490	-0.0840
0.1166	6.035	0.084	0.1166	2.8260	-6.0350	-0.0840
0.1333	5.920	0.075	0.1333	2.7680	-5.9200	-0.0750
0.1500	5.787	0.084	0.1500	2.7168	-5.7870	-0.0840
0.1666	5.634	0.084	0.1666	2.6713	-5.6340	-0.0840 *
0.2000	5.272	0.084	0.2000	2.5922	-5.2720	-0.0840 *
0.2166	5.100	0.075	0.2166	2.5576	-5.1000	-0.0840 *
0.2333	4.938	0.084	0.2333	2.5255	-4.9380	-0.0750 *
0.2500	4.786	0.075	0.2500	2.4955	-4.7860	-0.0840 *
0.2666	4.643	0.084	0.2666	2.4677	-4.6430	-0.0750 *
0.2833	4.500	0.084	0.2833	2.4414	-4.5000	-0.0840 *
0.3000	4.357	0.084	0.3000	2.4166	-4.3570	-0.0840 *
0.3166	4.223	0.084	0.3166	2.3933	-4.2230	-0.0840 *
0.3333	4.090	0.075	0.3333	2.3711	-4.0900	-0.0840 *
0.4166	3.499	0.084	0.4166	2.2747	-3.4990	-0.0750 *
0.5000	3.003	0.084	0.5000	2.1959	-3.0030	-0.0840 *
0.5833	2.574	0.084	0.5833	2.1294	-2.5740	-0.0840 *
0.6666	2.221	0.084	0.6666	2.0719	-2.2210	-0.0840 *
0.7500	1.916	0.084	0.7500	2.0212	-1.9160	-0.0840 *
0.8333	1.658	0.084	0.8333	1.9759	-1.6580	-0.0840 *
0.9166	1.439	0.084	0.9166	1.9350	-1.4390	-0.0840 *
1.0000	1.249	0.084	1.0000	1.8976	-1.2490	-0.0840 *

TABLE A-24 (continued)
 RECOVERY DATA FROM PUMPING OF WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
1.0833	1.086	0.094	1.0833	1.8633	-1.0860	-0.0840 *
1.1666	0.934	0.084	1.1666	1.8316	-0.9340	-0.0940 *
1.2500	0.819	0.094	1.2500	1.8021	-0.8190	-0.0840 *
1.3333	0.705	0.084	1.3333	1.7745	-0.7050	-0.0940 *
1.4166	0.610	0.094	1.4166	1.7487	-0.6100	-0.0840 *
1.5000	0.524	0.084	1.5000	1.7243	-0.5240	-0.0940
1.5833	0.448	0.084	1.5833	1.7013	-0.4480	-0.0840
1.6666	0.381	0.084	1.6666	1.6794	-0.3810	-0.0840
1.7500	0.324	0.094	1.7500	1.6587	-0.3240	-0.0840
1.8333	0.266	0.084	1.8333	1.6390	-0.2660	-0.0940
1.9166	0.219	0.084	1.9166	1.6201	-0.2190	-0.0840
2.0000	0.171	0.084	2.0000	1.6021	-0.1710	-0.0840
2.5000	-0.028	0.084	2.5000	1.5079	0.0280	-0.0840
3.0000	-0.143	0.084	3.0000	1.4314	0.1430	-0.0840
3.5000	-0.228	0.084	3.5000	1.3671	0.2280	-0.0840
4.0000	-0.295	0.075	4.0000	1.3118	0.2950	-0.0840
4.5000	-0.343	0.075	4.5000	1.2632	0.3430	-0.0750
5.0000	-0.381	0.065	5.0000	1.2201	0.3810	-0.0750
5.5000	-0.419	0.065	5.5000	1.1813	0.4190	-0.0650
6.0000	-0.448	0.065	6.0000	1.1461	0.4480	-0.0650
6.5000	-0.467	0.065	6.5000	1.1139	0.4670	-0.0650
7.0000	-0.495	0.056	7.0000	1.0843	0.4950	-0.0650
7.5000	-0.514	0.047	7.5000	1.0569	0.5140	-0.0560
8.0000	-0.533	0.056	8.0000	1.0314	0.5330	-0.0470
8.5000	-0.552	0.047	8.5000	1.0076	0.5520	-0.0560
9.0000	-0.572	0.037	9.0000	0.9853	0.5720	-0.0470
9.5000	-0.581	0.037	9.5000	0.9643	0.5810	-0.0370
10.0000	-0.600	0.037	10.0000	0.9445	0.6000	-0.0370
11.0000	-0.619	0.018	11.0000	0.9080	0.6190	-0.0370
12.0000	-0.638	0.009	12.0000	0.8751	0.6380	-0.0180
13.0000	-0.657	0.009	13.0000	0.8451	0.6570	-0.0090
14.0000	-0.667	0.009	14.0000	0.8177	0.6670	-0.0090
15.0000	-0.686	0.000	15.0000	0.7924	0.6860	-0.0090
16.0000	-0.696	0.000	16.0000	0.7690	0.6960	0.0000
17.0000	-0.715	-0.009	17.0000	0.7473	0.7150	0.0000
18.0000	-0.715	-0.009	18.0000	0.7270	0.7150	0.0090
19.0000	-0.724	-0.009	19.0000	0.7080	0.7240	0.0090
20.0000	-0.734	-0.009	20.0000	0.6902	0.7340	0.0090
21.0000	-0.743	-0.018	21.0000	0.6734	0.7430	0.0090
22.0000	-0.753	-0.028	22.0000	0.6576	0.7530	0.0180
23.0000	-0.762	-0.037	23.0000	0.6426	0.7620	0.0280
24.0000	-0.772	-0.037	24.0000	0.6284	0.7720	0.0370
25.0000	-0.772	-0.037	25.0000	0.6149	0.7720	0.0370
26.0000	-0.781	-0.037	26.0000	0.6021	0.7810	0.0370
27.0000	-0.781	-0.047	27.0000	0.5898	0.7810	0.0370
28.0000	-0.791	-0.037	28.0000	0.5781	0.7910	0.0470
29.0000	-0.800	-0.047	29.0000	0.5670	0.8000	0.0370
30.0000	-0.800	-0.047	30.0000	0.5563	0.8000	0.0470
31.0000	-0.810	-0.056	31.0000	0.5461	0.8100	0.0470
32.0000	-0.810	-0.047	32.0000	0.5362	0.8100	0.0560

TABLE A-24 (continued)
 RECOVERY DATA FROM PUMPING OF WELL S2

Elapsed Time (min)	Well S2 INPUT 1 (feet)	Well C2 INPUT 2 (feet)	Actual Step Elapsed Time (min)	Log [Total ET/ Step ET] (min)	Well S2 Delta Water Level (feet)	Well C2 Delta Water Level (feet)
33.0000	-0.810	-0.056	33.0000	0.5268	0.8100	0.0470
34.0000	-0.819	-0.065	34.0000	0.5177	0.8190	0.0560
35.0000	-0.819	-0.056	35.0000	0.5090	0.8190	0.0650
36.0000	-0.829	-0.065	36.0000	0.5006	0.8290	0.0560
37.0000	-0.829	-0.065	37.0000	0.4925	0.8290	0.0650
38.0000	-0.829	-0.065	38.0000	0.4847	0.8290	0.0650
39.0000	-0.839	-0.075	39.0000	0.4771	0.8390	0.0650

* Indicates data used in regression analysis.

TABLE A-25
 DATA REGRESSION AND HYDROLOGIC ANALYSIS
 RECOVERY DATA FROM PUMPING OF WELL S2

Regression Output:

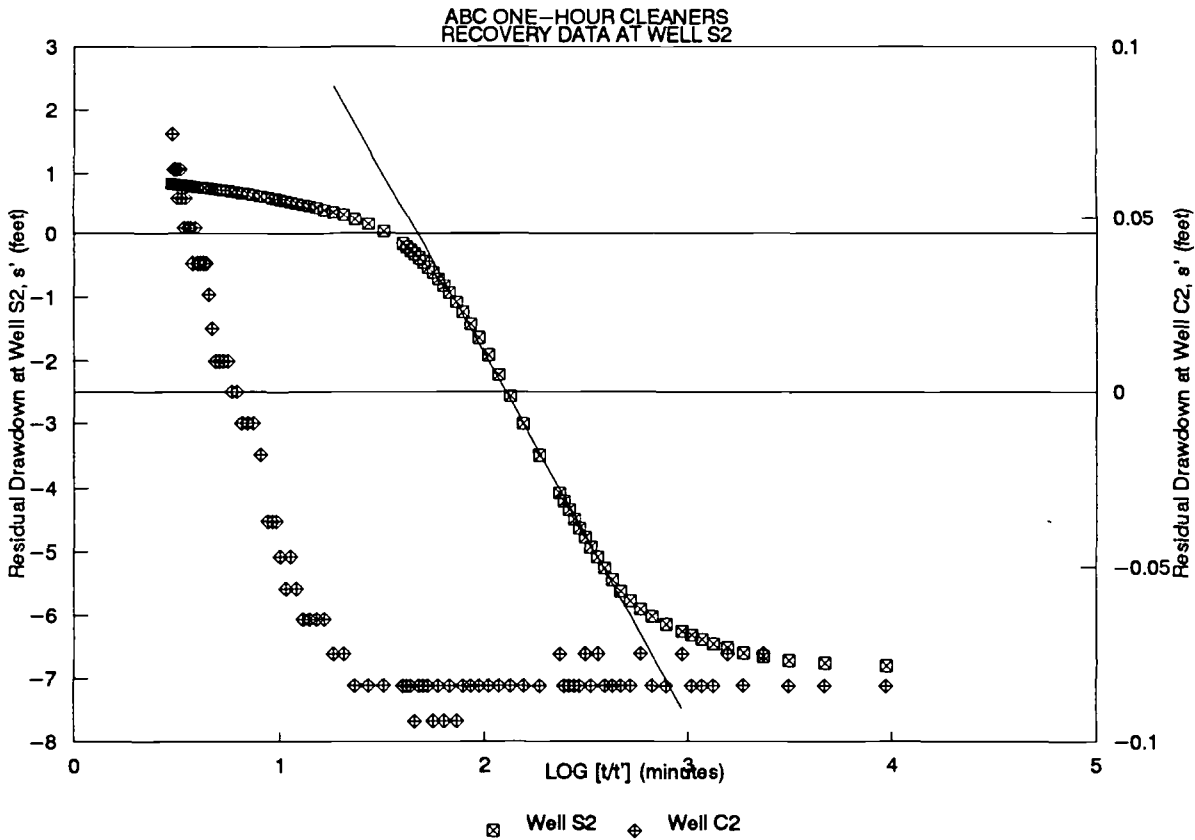
Constant	9.646295 (intercept)
Std Err of Y Est	0.068705
R Squared	0.998482
No. of Observations	23
Degrees of Freedom	21

X Coefficient(s)	-5.76527 (delta S per log cycle)
Std Err of Coef.	0.049059

Q = 8.8 GPM
 B = 58 feet

T = (264*Q)/(delta S) = 403.0 gpd/ft
 T = 53.9 ft²/day
 T = 0.58 cm²/sec

k = T/B = 0.93 ft/day
 k = 3.28E-04 cm/sec
 k = 3.28E-06 m/sec



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Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix B
Revision: 1
Date: November 1992

APPENDIX B
DIRECT PUSH TECHNOLOGY
FIELD DATA

This document was prepared by Roy F. Weston, Inc., expressly for EPA. It shall not be released or disclosed, in whole or in part, without the express written permission of EPA.

Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix B
Revision: 1
Date: November 1992

GAS CHROMATOGRAPH FIELD DATA RECORD

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-11-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 1 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100
<u>Other Compounds</u>		
Benzene		145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-11-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 1 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
3018 Hildago Drive
Orlando Fl 32812

EMC P/N : 91-1209-1AC
Report Date: 12-26-1991

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
Site Description: WESTON PROJECT, Jacksonville, NC

Collection Date: 12-11-1991
Sample No.: 6190 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC1-17.5

___EPA_601_Compounds___	Concentration in ug/L:	
	Initial	Final
1,2 Dichloroethane		41.2
Perchloroethylene		4
Vinyl Chloride		4
	=====	=====
	=====	=====

Comments:

Collection Date: 12-11-1991
Sample No.: 6191 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC1-39

___EPA_601_Compounds___	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		10.7
Perchloroethylene		1.7
Vinyl Chloride		0.2j
	=====	=====
	=====	=====

Comments:

j = estimated value .

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
3018 Hildago Drive
Orlando Fl 32812

Report Date : 12-26-91
Collect Date: 12-11-91
EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 2 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: Standard

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride		103
Chlorobenzene		
1,2-Dichloroethane		99
1,1,1-Trichloroethane		105
1,1-Dichloroethane		103
1,1,2-Trichloroethane		101
1,1,2,2-Tetrachloroethane		108
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		96
1,2-trans-Dichloroethylene		90
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		101
Trichloroethylene		102
Vinyl Chloride		98

Other Compounds

Benzene 143

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-11-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 2 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

____Other Compounds____

Benzene	<	1
---------	---	---

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-11-1991
Sample No.: 6192 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC2-21.5

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.5j
Trichloroethylene		0.13j
Vinyl Chloride ane		12.2
1,1-Dichloroethane		8.2

Comments: j = estimated value.

Collection Date: 12-11-91
Sample No.: 6193 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC2-44.5

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		5
Vinyl Chloride		2j
1,1 Dichloroethane		340

Comments: j estimated value.

Collection Date: 12-12-91
Sample No.: 6194 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC3-21

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		14.6
Perchloroethylene		2.5j
Vinyl Chloride		5.3
1,1-Dichloroethane		110.3

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-11-91
Sample No.: 6195 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC3-40.5

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
1,1 Dichloroethane		5.7
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-11-91
Sample No.: 6196 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC4-19

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
1,1 Dichloroethane		53
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-11-91
Sample No.: 6197 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC4-40

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.16j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-11-91
Sample No.: 6198 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC5-25

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.38j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-11-91
Sample No.: 6199 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC5-42.5

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No detectable compounds.

Collection Date: 12-11-91
Sample No.: 6200 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC6-64

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.6j
Vinyl Chloride		0.6j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-11-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 3 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		104
Chlorobenzene		
1,2-Dichloroethane		106
1,1,1-Trichloroethane		110
1,1-Dichloroethane		104
1,1,2-Trichloroethane		101
1,1,2,2-Tetrachloroethane		107
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		111
1,2-trans-Dichloroethylene		103
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		102
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		99
Trichloroethylene		104
Vinyl Chloride		96

____ Other Compounds ____

Benzene 149

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-11-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 3 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 4 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 4 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
____Other Compounds____		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-12-91
Sample No.: 6201 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC7-26.5

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.93j
Vinyl Chloride		2.13j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-12-91
Sample No.: 6202 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC7-39

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		8.14
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-12-91
Sample No.: 6203 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC8-35

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		6.81
Vinyl Chloride		0.71j
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-12-91
Sample No.: 6204 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC9-31

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		175.7
Vinyl chloride		1.3j
1,1-Dichloroethane		5.3

Comments: j = estimated value.

Collection Date: 12-12-91
Sample No.: 6205 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC9-36.5

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		6.3
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-12-91
Sample No.: 6206 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC10-24

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.52j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-14C

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 5 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 5 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-12-91
Sample No.: 6207 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC10-40

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.80j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-12-91
Sample No.: 6208 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC11-34

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.8j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-12-91
Sample No.: 6209 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC12-24

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No detectable revelant compounds.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 6 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		97
Chlorobenzene		
1,2-Dichloroethane		105
1,1,1-Trichloroethane		108
1,1-Dichloroethane		113
1,1,2-Trichloroethane		105
1,1,2,2-Tetrachloroethane		91
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		109
1,2-trans-Dichloroethylene		98
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		101
Trichloroethylene		104
Vinyl Chloride		109

____Other Compounds____

Benzene 151

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 6 Type: Grd H20 Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-12-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 7 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene	<	1
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COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 7 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-12-91
Sample No.: 6210 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC12-40

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		3.4j
Vinyl Chloride		0.51j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-13-91
Sample No.: 6211 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC13-19.5

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.76j
Trichloroethylene		0.19j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-13-91
Sample No.: 6212 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC13-32

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.4j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-13-91
Sample No.: 6213 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC14-20

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.22j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-13-91
Sample No.: 6214 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC14-40

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No compounds identified.

Collection Date: 12-13-91
Sample No.: 6215 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC15-24

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No compounds identified.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 8 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		96
Chlorobenzene		
1,2-Dichloroethane		94
1,1,1-Trichloroethane		94
1,1-Dichloroethane		91
1,1,2-Trichloroethane		89
1,1,2,2-Tetrachloroethane		93
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		93
1,2-trans-Dichloroethylene		96
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		99
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		98
Trichloroethylene		94
Vinyl Chloride		95

____Other Compounds____

Benzene 146

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. ② Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 9 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____Other Compounds____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 9 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 10 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		101
Chlorobenzene		
1,2-Dichloroethane		103
1,1,1-Trichloroethane		100
1,1-Dichloroethane		104
1,1,2-Trichloroethane		102
1,1,2,2-Tetrachloroethane		106
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		108
1,2-trans-Dichloroethylene		102
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		103
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		106
Trichloroethylene		103
Vinyl Chloride		107
<u>Other Compounds</u>		
Benzene		143

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-13-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 19 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 11 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____Other Compounds____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 10 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-13-91
Sample No.: 6216 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC15-36.5

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
1,1,1-Trichloroethane		13.3
Trichloroethylene		2.8j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-13-91
Sample No.: 6217 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC16-30

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.23j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-14-91
Sample No.: 6218 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC6-30

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		5.0
	_____	_____
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-14-91
Sample No.: 6219 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC6-41

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		9.43
Vinyl Chloride		0.5j
1,1-Dichloroethane		24.2

Comments: j =estimated value.

Collection Date: 12-15-91
Sample No.: 6220 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC8-28

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		5.0
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-15-91
Sample No.: 6221 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC11-24

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		12.2
	_____	_____
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 12 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		99
Chlorobenzene		
1,2-Dichloroethane		105
1,1,1-Trichloroethane		104
1,1-Dichloroethane		107
1,1,2-Trichloroethane		105
1,1,2,2-Tetrachloroethane		108
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		110
1,2-trans-Dichloroethylene		107
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		103
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		104
Trichloroethylene		101
Vinyl Chloride		102

____ Other Compounds ____

Benzene 148

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 12 Type: Grd H20 Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-14-91
Sample No.: 6222 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC17-24

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No detectable compounds.

Collection Date: 12-14-91
Sample No.: 6223 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC17-44

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No detectable compounds.

Collection Date: 12-14-91
Sample No.: 6224 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC18-24

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.0j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-14-1991
Sample No.: 6225 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC18-36

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____

Comments: No identifiable compounds.

Collection Date: 12-14-91
Sample No.: 6226 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC19-25

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		53.3
Carbon Tetrachloride		38
1,1 Dichloroethane		1.3j

Comments: j estimated value.

Collection Date: 12-14-91
Sample No.: 6227 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC19-35.5

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		157.0
Vinyl Chloride		2.7j
1,1-Dichloroethane		7.1

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 13 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____Other Compounds____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-14-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 13 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

<u>EPA 601 Compounds</u>	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene	<	1
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COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-14-91
Sample No.: 6228 Type: Grd H2O Inj. Vol.: Varied Gain: 20
Sample Description: HC20-34

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
1,1 Dichloroethane		29.0
Carbon Tetrachloride		172.0
Perchloroethylene	25*10*2	500.0
Vinyl Chloride		44.0

Comments: PCE was determined by re-injecting at lesser volume.

Collection Date: 12-14-91
Sample No.: 6229 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC20-41

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
1,1 Dichloroethane		59
Carbon Tetrachloride		1.5j
Perchloroethylene		196

Comments: j = estimated value.

Collection Date: 12-15-91
Sample No.: 6230 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC21-22

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		96
1,2-Dichloroethane		303
1,1-Dichloroethane		1.23J
Vinyl Chloride		0.23J

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-15-91
Sample No.: 6231 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC21-31.5

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		13.5
1,1-Dichloroethane		10.1
Vinyl Chloride		5.3

Comments: j = estimated value.

Collection Date: 12-15-91
Sample No.: 6232 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC22-30

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: SEE HC22A-30 FOR INFORMATION ON EACH COMPOUND.

Collection Date: 12-17-91
Sample No.: 6233 Type: Grd H2O Inj. Vol.: Varied Gain: 20
Sample Description: HC22A-30

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene	148*5	740
Vinyl Chloride		2.3j
1,1-Dichloroethane		15.0

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-15-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 14 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____Other Compounds____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-15-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 14 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

<u>EPA 601 Compounds</u>	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-15-91
 EMC P/N : 91-1209-14C

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No 15 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		99
Chlorobenzene		
1,2-Dichloroethane		95
1,1,1-Trichloroethane		96
1,1-Dichloroethane		94
1,1,2-Trichloroethane		96
1,1,2,2-Tetrachloroethane		98
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		92
1,2-trans-Dichloroethylene		94
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		96
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		94
Trichloroethylene		97
Vinyl Chloride		99

Other Compounds

Benzene 141

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-11-91
 Collect Date: 12-26-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 15 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1
COMMENTS: _____		

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-14-91
Sample No.: 6237 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC24-28

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		14.0
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-14-91
Sample No.: 6238 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC24-38

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		13.0
1,1-Dichloroethane		21.0
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-15-91
Sample No.: 6239 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC25-18

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		8.2
	_____	_____
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-16-91
Sample No.: 6240 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC25-27

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		6.0
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-15-91
Sample No.: 6241 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC26-42

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		5.0
1,1-Dichloroethane		6.5
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-16-91
Sample No.: 6242 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC27-27

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		4.0
	_____	_____
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-16-91
Sample No.: 6243 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC27-37.5

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		3.2
Trichloroethylene		0.34j
1,1-Dichloroethane		7.1
	_____	_____

Comments: j = estimated value.

Collection Date: 12-15-91
Sample No.: 6244 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC28-28

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.7j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-15-91
Sample No.: 6245 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC28-41

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.2j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-16-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handlev, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT Jacksonville, NC

Sample No. 17 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-16-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 17 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601-Compounds</u>		
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-16-91
Sample No.: 6246 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC29-23

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.4j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-16-91
Sample No.: 6247 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC29-26.5

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		5.0
Vinyl Chloride		0.2j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-15-91
Sample No.: 6248 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC30-40

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-16-91
Sample No.: 6247A Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC30-24

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.9j
Trichloroethylene		0.2j
Benzene		2.2

Comments: j = estimated value.



GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-16-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 18 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride		103
Chlorobenzene		
1,2-Dichloroethane		110
1,1,1-Trichloroethane		104
1,1-Dichloroethane		108
1,1,2-Trichloroethane		109
1,1,2,2-Tetrachloroethane		105
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		110
1,2-trans-Dichloroethylene		112
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		105
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		103
Trichloroethylene		107
Vinyl Chloride		106
<u>Other Compounds</u>		
Benzene		151

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-16-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 18 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene	<	1
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COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-17-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 19 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____Other Compounds____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-17-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 19 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene	<	1
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COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-17-91
Sample No.: 6252 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC32-38

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.1j
Vinyl Chloride		0.5j

Comments: j =estimated value.

Collection Date: 12-17-91
Sample No.: 6253 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC33-28

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
Carbon Tetrachloride		20.4
Vinyl Chloride		2.2j

Comments: j = estimated value.

Collection Date: 12-17-91
Sample No.: 6254 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC33-36

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.5j
Vinyl Chloride		0.3j

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-17-91
Sample No.: 6255 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC34-21.5

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
Trichloroethylene		0.3j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-17-91
Sample No.: 6256 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC34-34

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
	_____	_____
	_____	_____
	_____	_____

Comments: J = estimated value.

Collection Date: 12-17-91
Sample No.: 6257 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC35-30

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		133.0
1,1-Dichloroethane		187.0
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-17-91
Sample No.: 6255 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC34-21.5

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
Trichloroethylene		0.3j
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-17-91
Sample No.: 6256 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC34-34

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
	_____	_____
	_____	_____
	_____	_____

Comments: J = estimated value.

Collection Date: 12-17-91
Sample No.: 6257 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC35-30

<u> EPA 601 Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		133.0
1,1-Dichloroethane		187.0
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-17-91
Sample No.: 6258 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC35-42

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		7.5
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-17-91
Sample No.: 6259 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC37-48

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.4j
Vinyl Chloride		0.4j
	_____	_____
	_____	_____

Comments: J = estimated value..

Collection Date: 12-18-91
Sample No.: 62260 Type: Grd H2O Inj. Vol.: 1000 Gain: 200
Sample Description: HC36-30

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No identifiable compounds.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 21 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

____Other Compounds____

Benzene	<	1
---------	---	---

COMMENTS: _____

GAS CHROMATOGRAPHY FIELD DATA RECORD Cont'd

Collection Date: 12-18-91
Sample No.: 6261 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC38-24

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.5j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-18-91
Sample No.: 6262 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC39-23

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.9j
	_____	_____
	_____	_____
	_____	_____

Comments: J = estimated value.

Collection Date: 12-18-91
Sample No.: 6263 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC41-27

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		82.0
1,1-Dichloroethane		48.0
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 22 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		101
Chlorobenzene		
1,2-Dichloroethane		104
1,1,1-Trichloroethane		101
1,1-Dichloroethane		102
1,1,2-Trichloroethane		106
1,1,2,2-Tetrachloroethane		101
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		102
1,2-trans-Dichloroethylene		101
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		99
Vinyl Chloride		103

____Other Compounds____

Benzene 146

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 22 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-18-91
Sample No.: 6264 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC36-41

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.0j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-18-91
Sample No.: 6265 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC38-40

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		1.2j
1,1-Dichloroethane		7.4
	_____	_____
	_____	_____

Comments: J = estimated value.

Collection Date: 12-18-91
Sample No.: 6266 Type: Grd H2O Inj. Vol.: Varied Gain: 20
Sample Description: HC39-35

<u>EPA_601_Compounds</u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.4j
1,1-Dichloroethane	245*10	2450.0
1,1,1-Trichloroethane	86*10	860
Carbon Tetrachloride	522*10	5220
Vinyl Chloride	14*2	28

Comments: Similar print to JP5. Odor of fuel. (j) = estimate

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 23 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 23 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5
<u>Other Compounds</u>		
Benzene	<	1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 24 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride		98
Chlorobenzene		
1,2-Dichloroethane		101
1,1,1-Trichloroethane		103
1,1-Dichloroethane		102
1,1,2-Trichloroethane		97
1,1,2,2-Tetrachloroethane		102
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		98
1,2-trans-Dichloroethylene		96
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		101
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		103
Trichloroethylene		101
Vinyl Chloride		99
<u>Other Compounds</u>		
Benzene		144

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 24 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

____Other Compounds____

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-18-1991
 Sample No.: 6267 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: HC41-45

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

Collection Date: 12-18-91
 Sample No.: 6268 Type: Grd H2O Inj. Vol.: Varied Gain: 20
 Sample Description: HC43-34

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene	106*10	1060
Vinyl Chloride	0.41*10	4.1
1,1 Dichloroethane		1700

Comments: _____

Collection Date: 12-18-91
 Sample No.: 6269 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: HC40-40

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No identified compounds.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 25 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		102
Chlorobenzene		
1,2-Dichloroethane		101
1,1,1-Trichloroethane		102
1,1-Dichloroethane		103
1,1,2-Trichloroethane		102
1,1,2,2-Tetrachloroethane		106
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		110
1,2-trans-Dichloroethylene		104
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		104
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		101
Trichloroethylene		104
Vinyl Chloride		102

Other Compounds

Benzene 146

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 25 Type: Grd H20 Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 26 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

	Concentration in ug/L:	
	Initial	Final
<u>EPA 601 Compounds</u>		
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100
<u>Other Compounds</u>		
Benzene		145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 27 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		99
Chlorobenzene		
1,2-Dichloroethane		94
1,1,1-Trichloroethane		93
1,1-Dichloroethane		92
1,1,2-Trichloroethane		95
1,1,2,2-Tetrachloroethane		98
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		97
1,2-trans-Dichloroethylene		96
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		97
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		93
Trichloroethylene		95
Vinyl Chloride		97

Other Compounds

Benzene 139

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-18-91
Sample No.: 6270 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC37-27

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		0.3j

Comments: j = estimated value.

Collection Date: 12-18-91
Sample No.: 6271 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC40-26

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		84

Comments: _____

Collection Date: 12-19-91
Sample No.: 6272 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC42-24

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No identified compounds.

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-19-91
Sample No.: 6273 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC42-40

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No identified compounds.

Collection Date: 12-18-91
Sample No.: 6274 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC43-24

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		33
	_____	_____
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-19-91
Sample No.: 6275 Type: Grd H20 Inj. Vol.: 100 Gain: 20
Sample Description: HC44-28

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		6
1,1-Dichloroethane		15.0
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 29 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		105
Chlorobenzene		
1,2-Dichloroethane		103
1,1,1-Trichloroethane		106
1,1-Dichloroethane		104
1,1,2-Trichloroethane		108
1,1,2,2-Tetrachloroethane		102
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		109
1,2-trans-Dichloroethylene		108
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		105
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		104
Trichloroethylene		103
Vinyl Chloride		107

____Other Compounds____

Benzene 151

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 28 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-19-91
Sample No.: 6276 Type: Grd H2O Inj. Vol.: Varied Gain: 20
Sample Description: HC44-39

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene	643*20	12,860
Vinyl Chloride	3*10	30
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-19-91
Sample No.: 6277 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC45-28

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Comments: No identified compounds.

Collection Date: 12-19-91
Sample No.: 6278 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC45-38

<u> EPA_601_Compounds </u>	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		2.0j
	_____	_____
	_____	_____
	_____	_____

Comments: j = estimated value.

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 27 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No. 28 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

____ Other Compounds ____

Benzene 145

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD Cont'd

Collection Date: 12-19-91
Sample No.: 6279 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC47-26

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		18.0
	_____	_____
	_____	_____

Comments: _____

Collection Date: 12-19-91
Sample No.: 6280 Type: Grd H2O Inj. Vol.: 100 Gain: 20
Sample Description: HC47-38

____EPA_601_Compounds____	Concentration in ug/L:	
	Initial	Final
Perchloroethylene		30.0
	_____	_____
	_____	_____
	_____	_____

Comments: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-19-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC
 Sample No. 29 Type: Grd H2O Inj. Vol.: 100 Gain: 20
 Sample Description: Blank

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride	<	5
Chlorobenzene	<	
1,2-Dichloroethane	<	5
1,1,1-Trichloroethane	<	5
1,1-Dichloroethane	<	5
1,1,2-Trichloroethane	<	5
1,1,2,2-Tetrachloroethane	<	5
Chloroethane	<	5
2-Chloroethyl vinyl ether	<	
Chloroform	<	
1,2-Dichlorobenzene	<	
1,3-Dichlorobenzene	<	
1,4-Dichlorobenzene	<	
1,1-Dichloroethylene	<	
1,2-trans-Dichloroethylene	<	5
1,2-Dichloropropane	<	
cis-1,3-Dichloropropene	<	
trans-1,3-Dichloropropene	<	
Methylene Chloride	<	5
Bromoform	<	
Bromodichloromethane	<	
Trichlorofluoromethane	<	
Chlorodibromomethane	<	
Tetrachloroethylene	<	5
Trichloroethylene	<	5
Vinyl Chloride	<	5

Other Compounds

Benzene < 1

COMMENTS: _____

GAS CHROMATOGRAPH FIELD DATA RECORD

Client: In-Situ Technology
 3018 Hildago Drive
 Orlando Fl 32812

Report Date : 12-26-91
 Collect Date: 12-18-91
 EMC P/N : 91-1209-1AC

Contact: Mr James Handley, In-Situ - Mr. Bill Morris, Weston
 Site Description: WESTON PROJECT, Jacksonville, NC

Sample No 24 Type: Grd H2O Inj. Vol : 100 Gain: 20
 Sample Description: Standard

EPA 601 Compounds	Concentration in ug/L:	
	Initial	Final
Carbon Tetrachloride		100
Chlorobenzene		
1,2-Dichloroethane		100
1,1,1-Trichloroethane		100
1,1-Dichloroethane		100
1,1,2-Trichloroethane		100
1,1,2,2-Tetrachloroethane		100
Chloroethane		
2-Chloroethyl vinyl ether		
Chloroform		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
1,1-Dichloroethylene		100
1,2-trans-Dichloroethylene		100
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
trans-1,3-Dichloropropene		
Methylene Chloride		100
Bromoform		
Bromodichloromethane		
Trichlorofluoromethane		
Chlorodibromomethane		
Perchloroethylene		100
Trichloroethylene		100
Vinyl Chloride		100

Other Compounds

Benzene 145

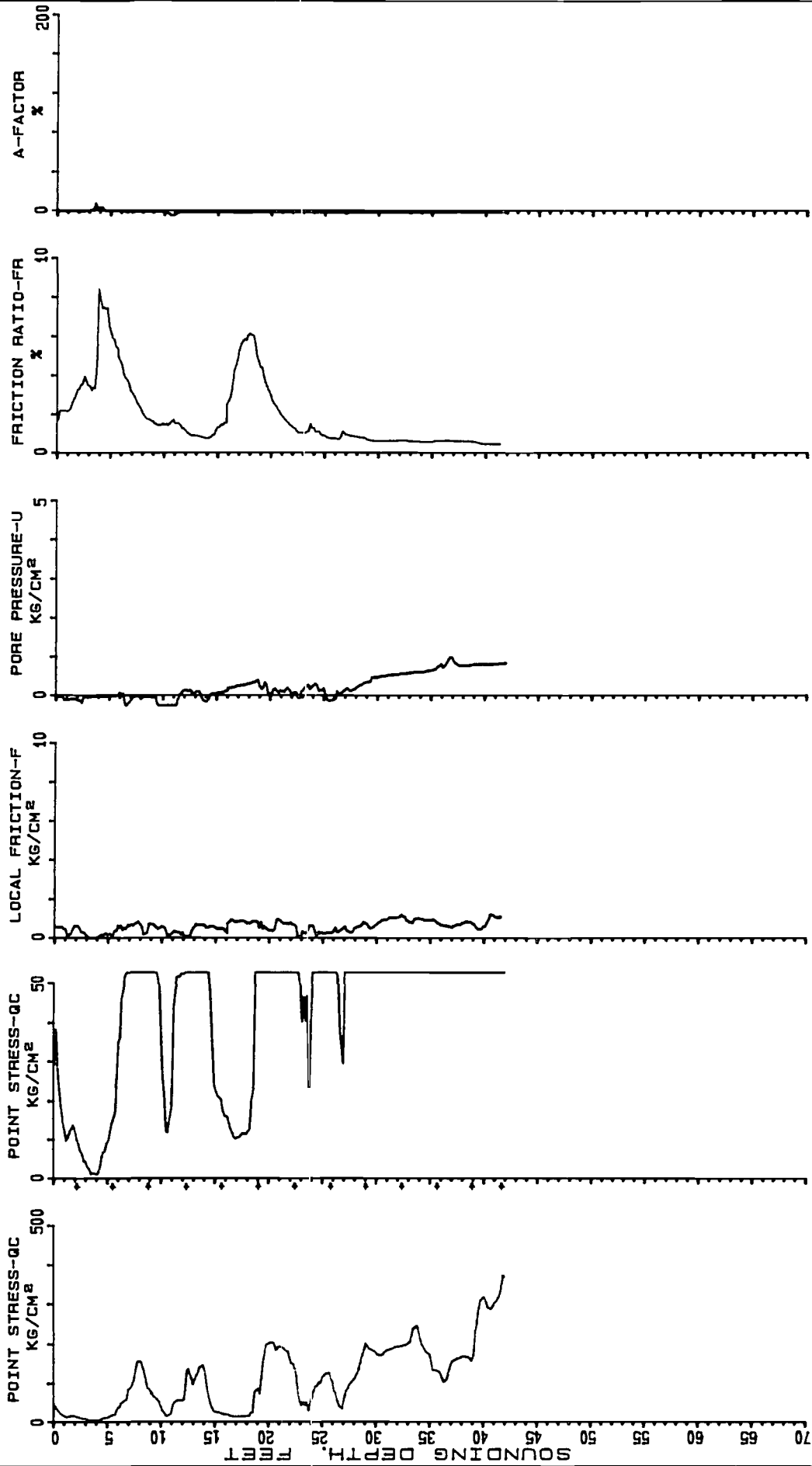
COMMENTS: _____

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Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix B
Revision: 1
Date: November 1992

PIEZOCONE SOUNDING TEST DATA

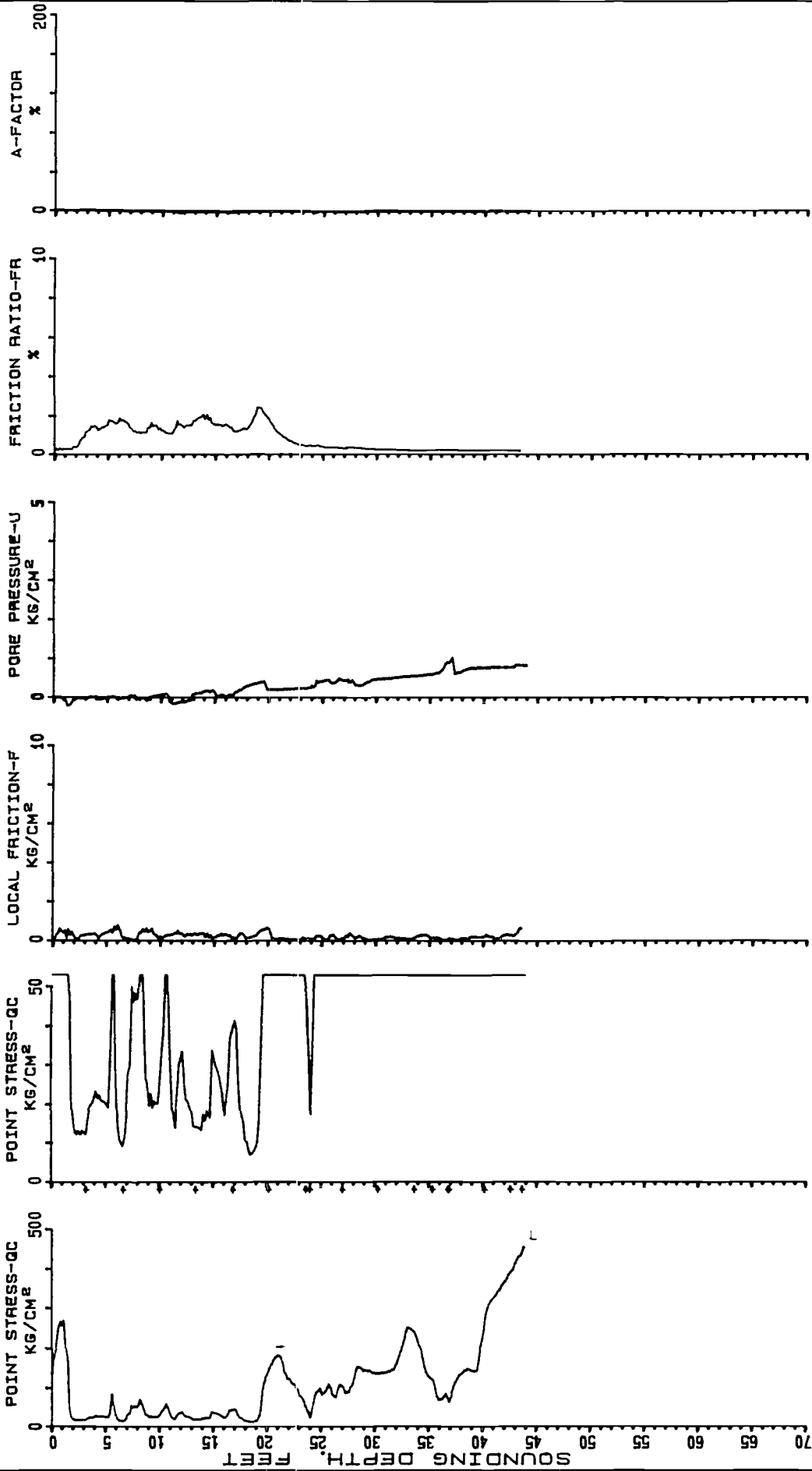
PIEZOONE SOUNDING TEST



FILE #
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S1
 SOUNDING DATE 01/01/83 00:06:14

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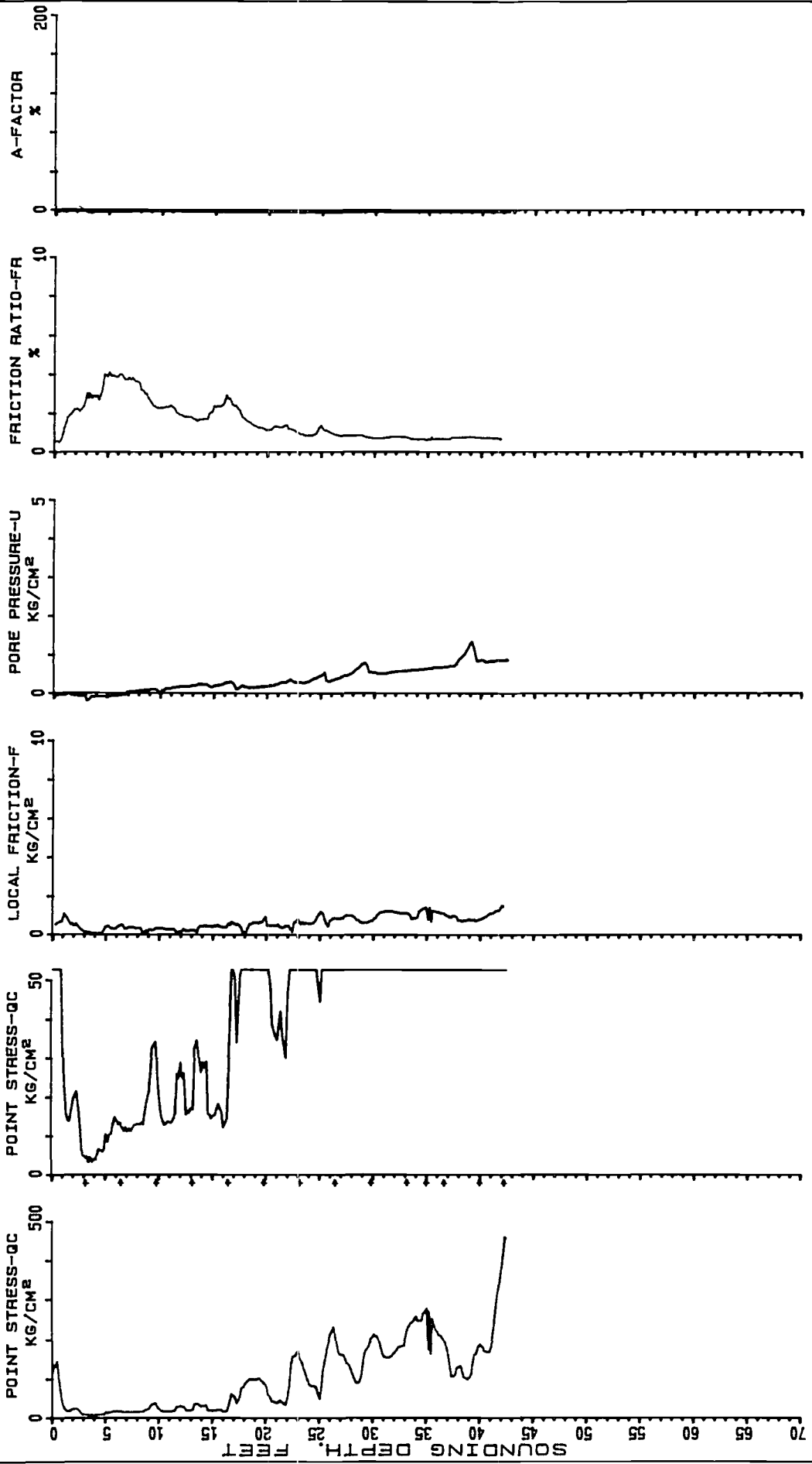
PIEZOONE SOUNDING TEST



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 JACKSONVILLE N.C.
 SOUNDING # S2
 SOUNDING DATE 12/10/91 16: 22: 44

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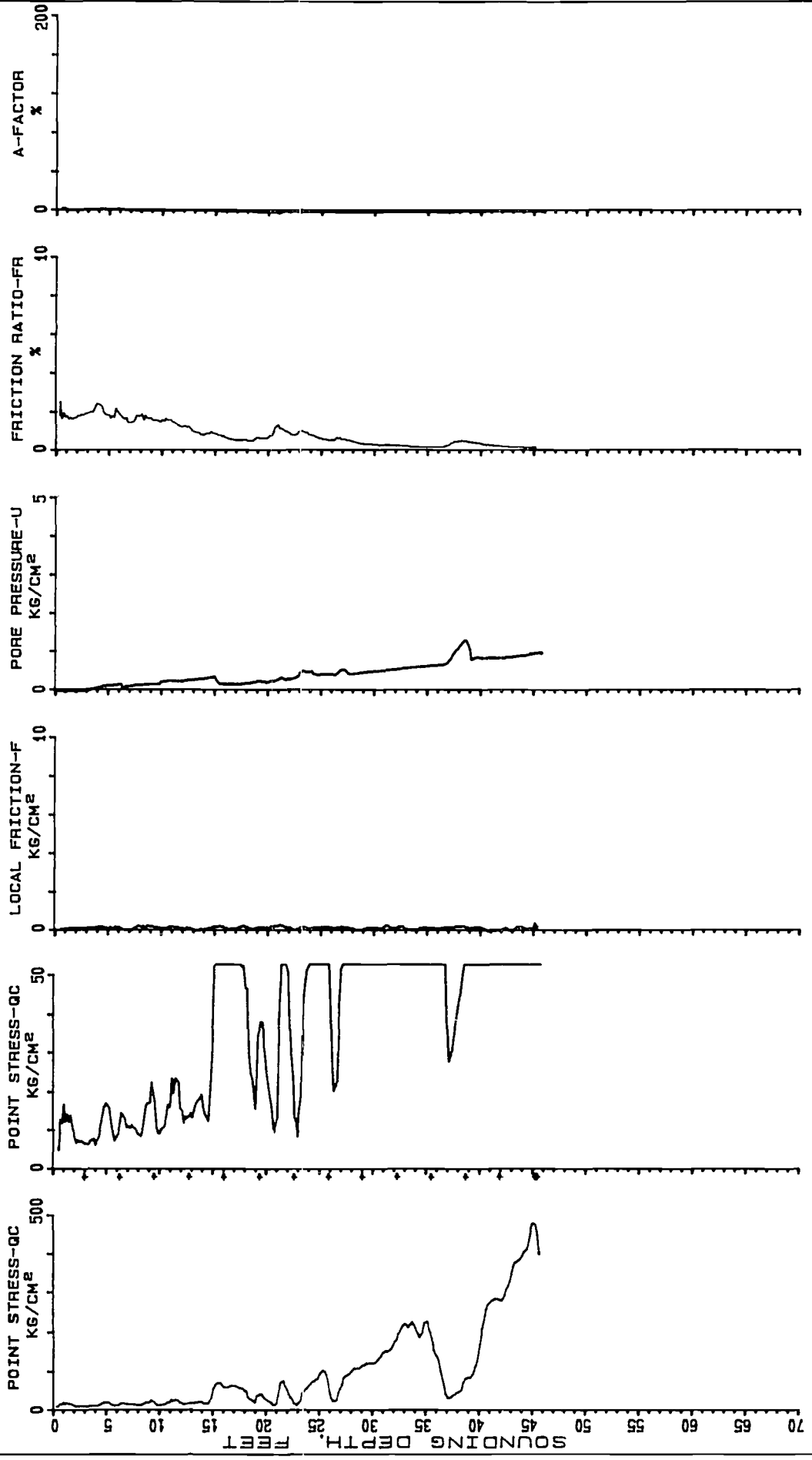
PIEZOcone SOUNDING TEST



FILE #
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 JACKSONVILLE N.C.
 SOUNDING # S3
 SOUNDING DATE 12/11/91 10:49:47

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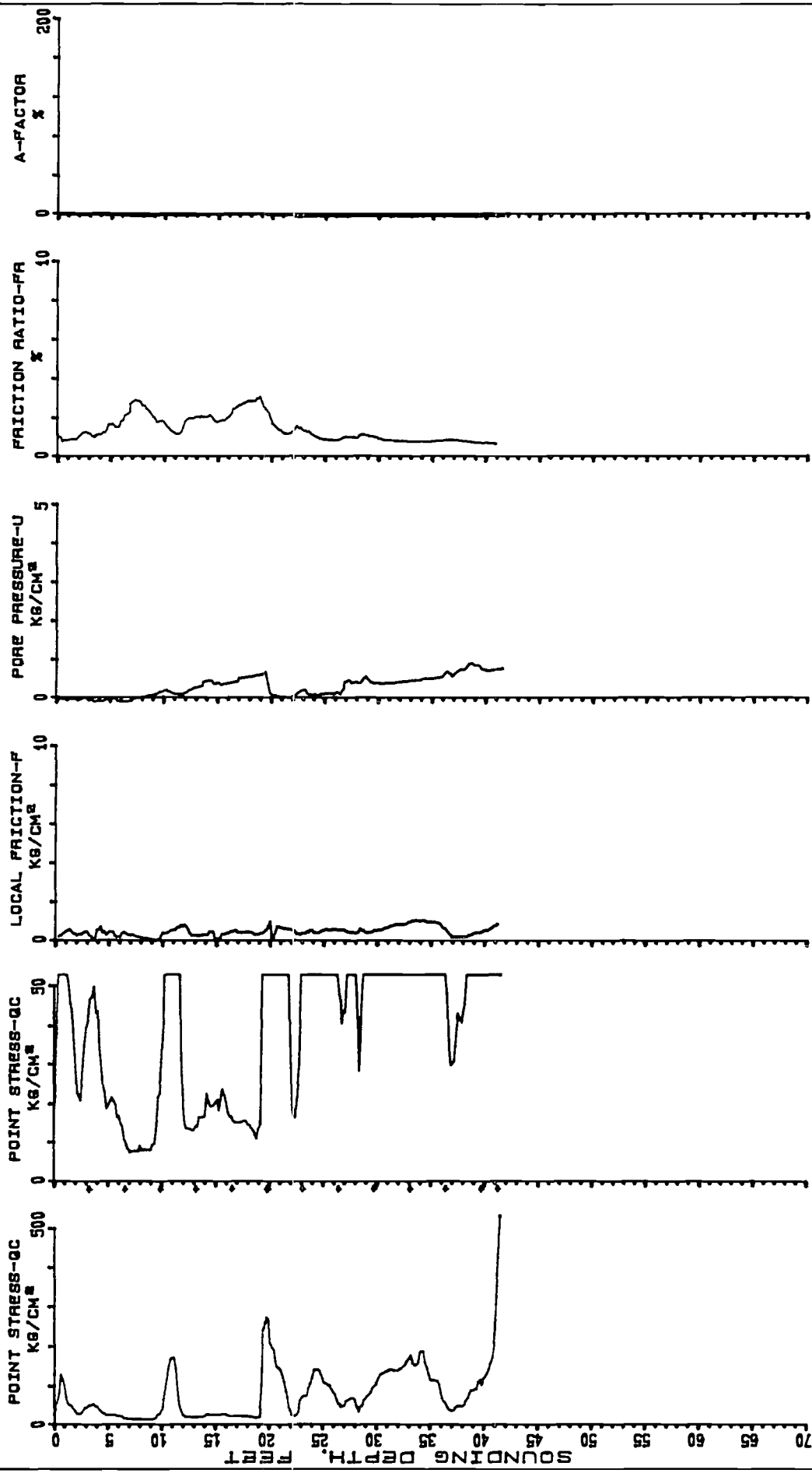
PIEZOcone SOUNDING TEST



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 JACKSONVILLE N.C.
 SOUNDING # S4
 SOUNDING DATE 12/11/91 13:07:03

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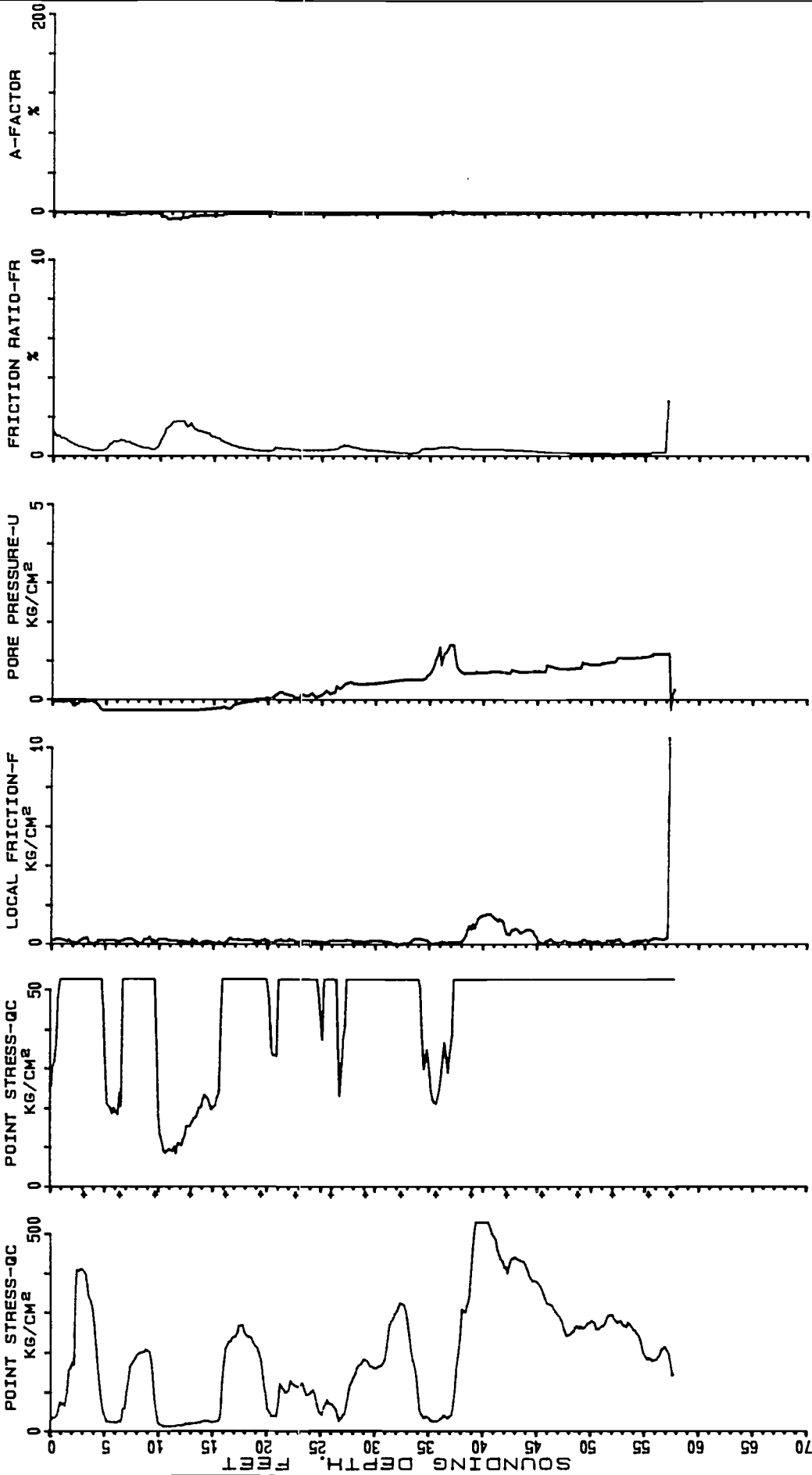
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S5
 SOUNDING DATE 12/11/91 16:04:21

* PUSH INTERRUPTED TO ADD ROD
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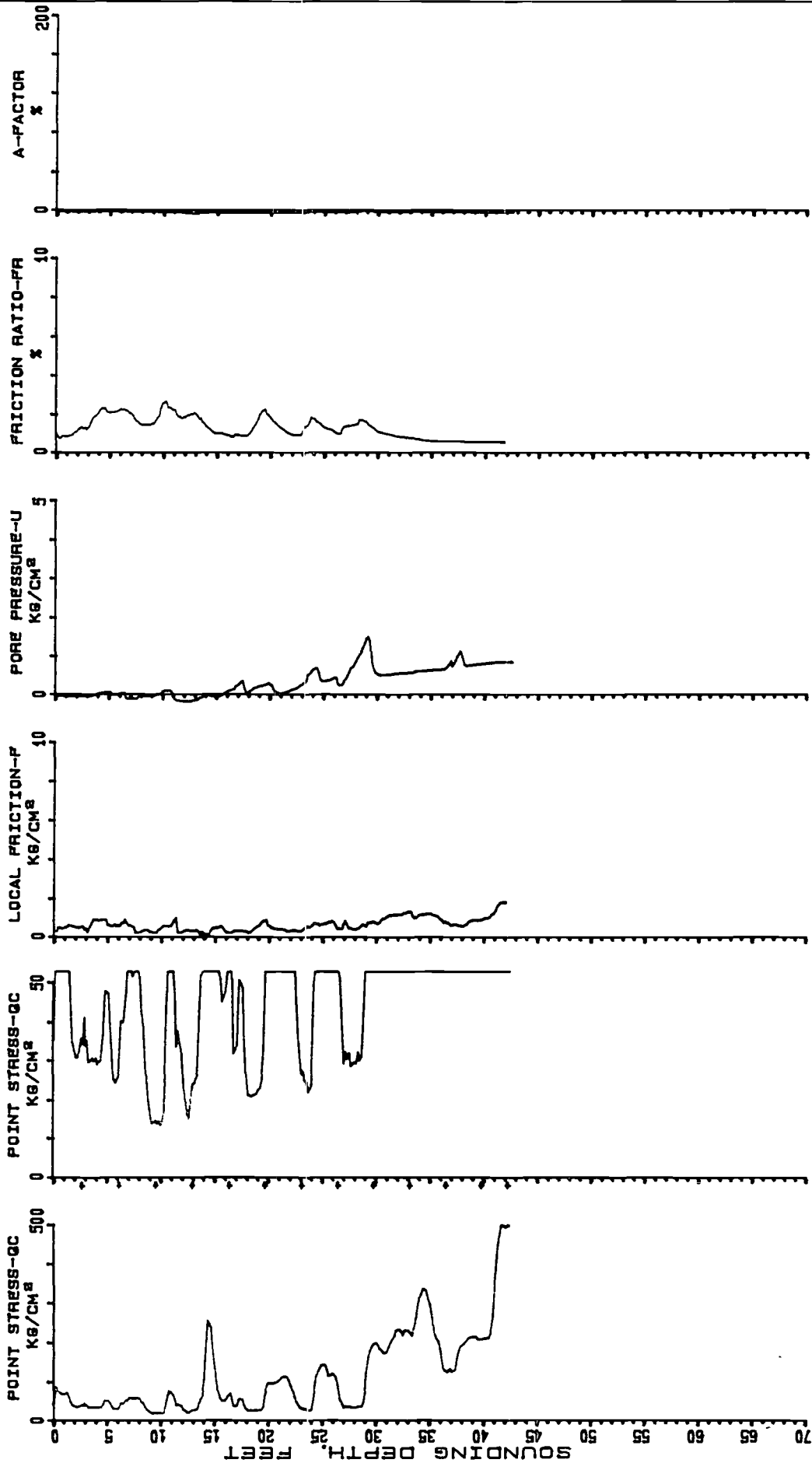
PIEZOONE SOUNDING TEST



FILE #
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # 56
 SOUNDING DATE 12/11/91 15:59:00

♦ PUSH INTERRUPTED TO ADD ROD
 ♦ PORE PRESSURE DECAY DATA MAY BE AVAILABLE

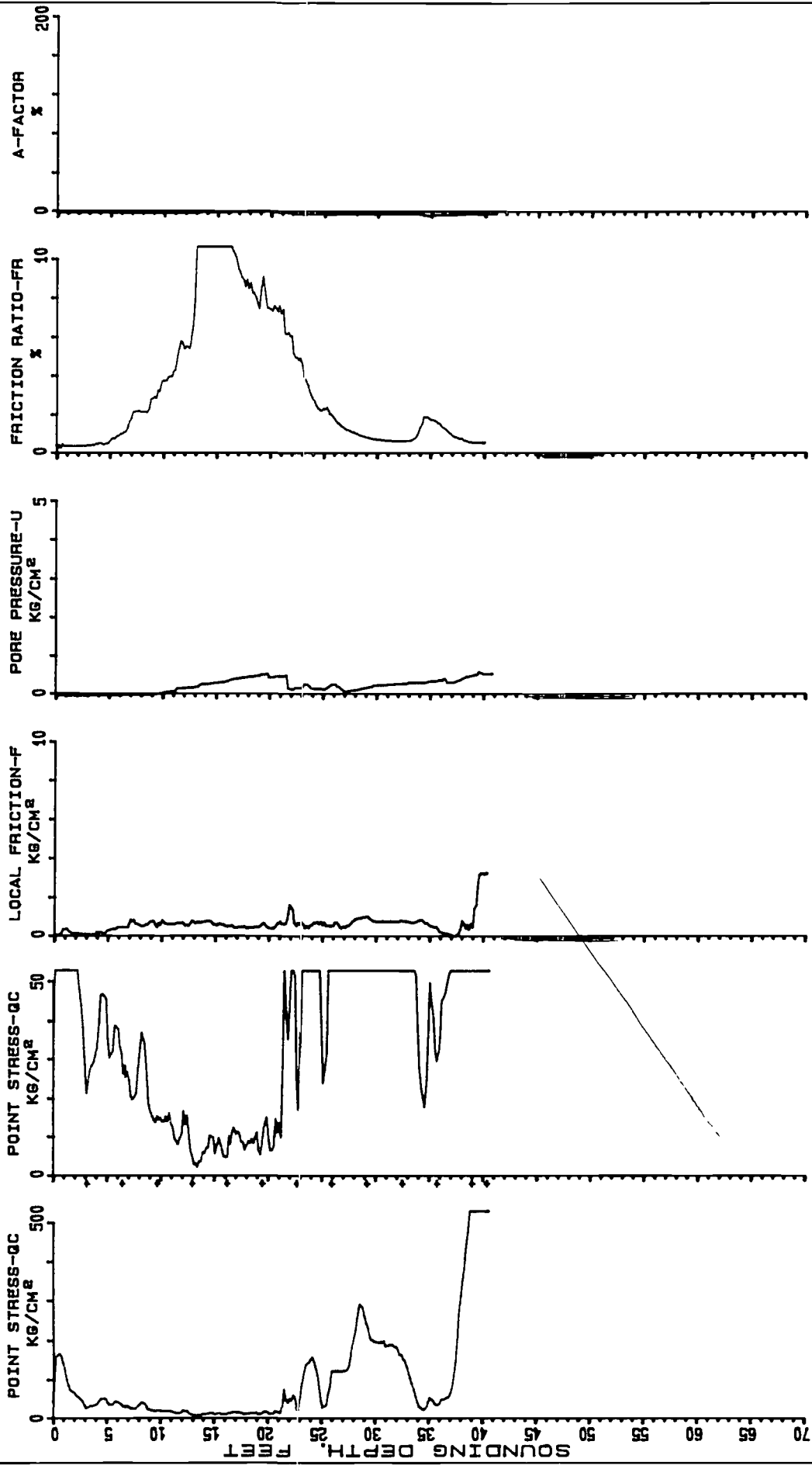
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S7
 SOUNDING DATE 12/12/91 08:36:26

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

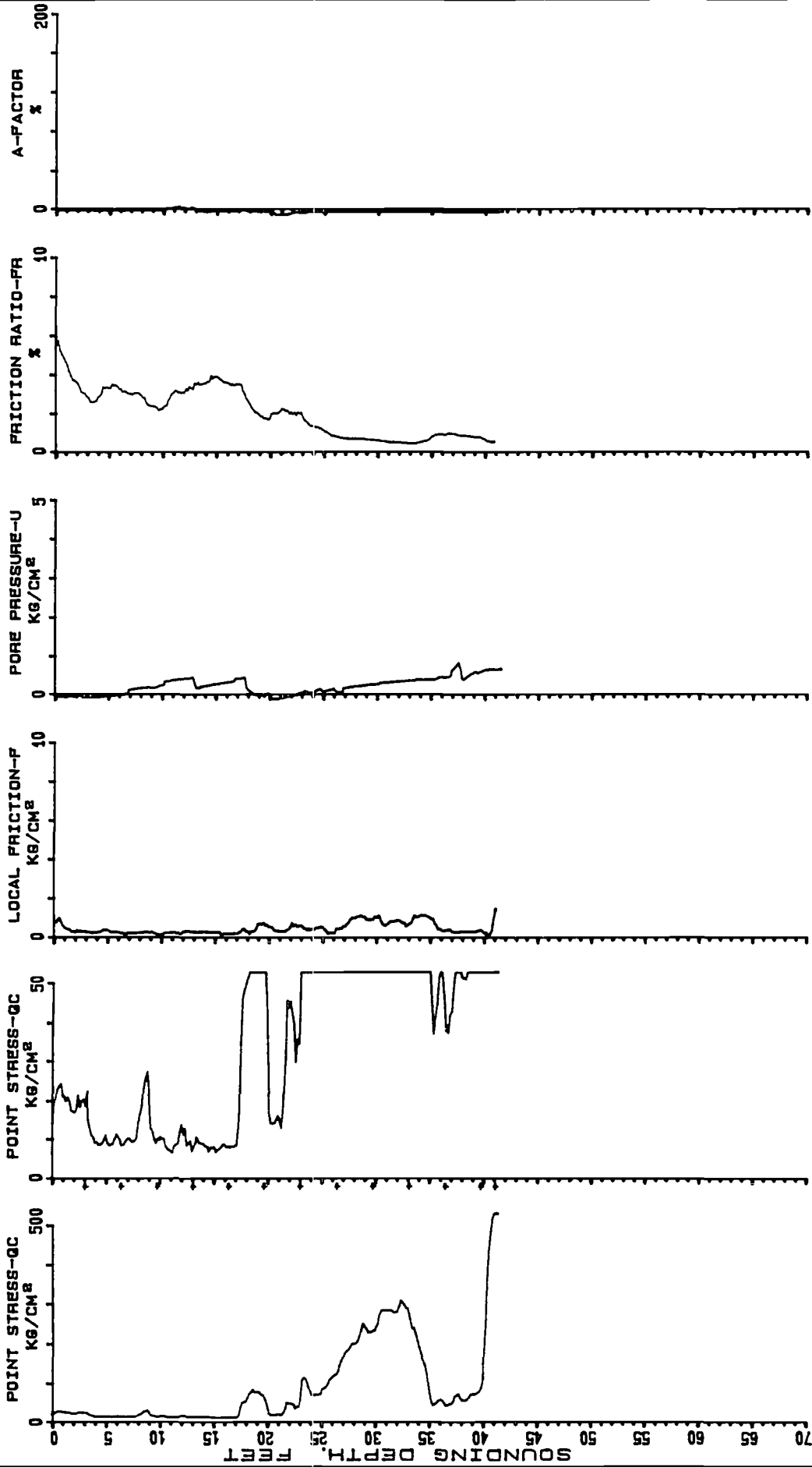
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S8
 SOUNDING DATE 12/12/91 09:03:11

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

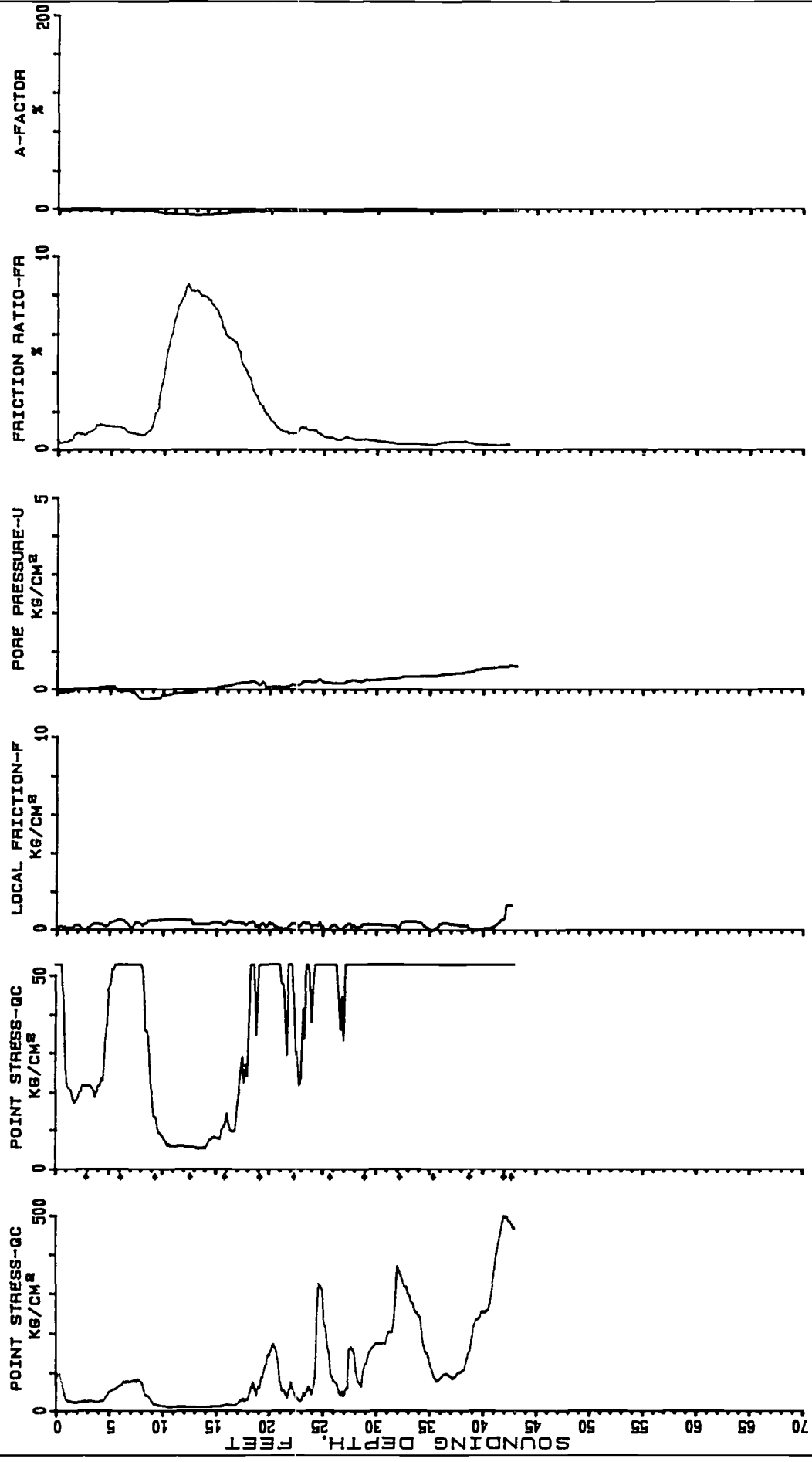
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S9
 SOUNDING DATE 12/12/91 12:05:47

* PUSH INTERRUPTED TO ADD RFD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

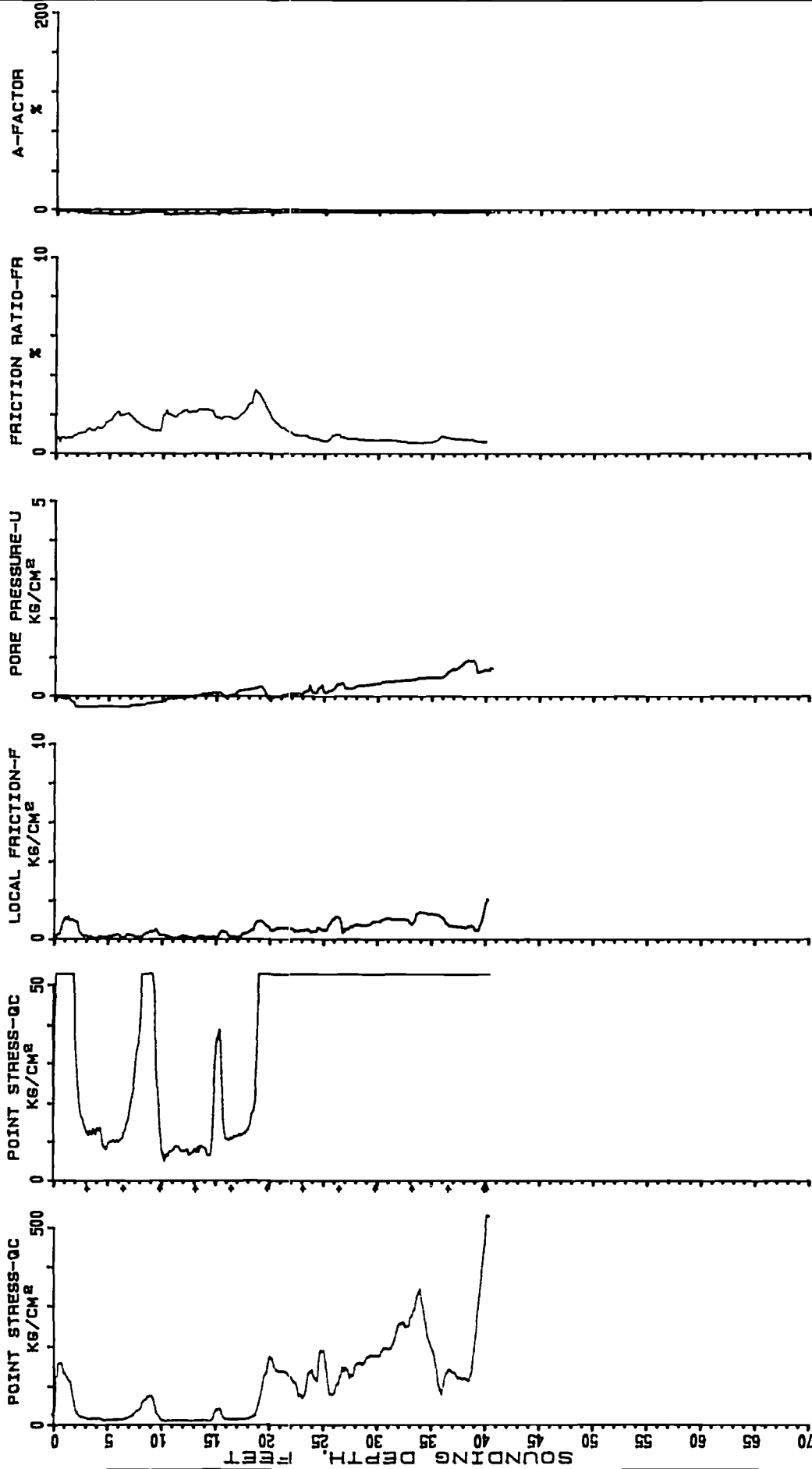
PIEZOCONE SOUNDING TEST



FILE #..... 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S10
 SOUNDING DATE 12/12/91 13:35:19

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

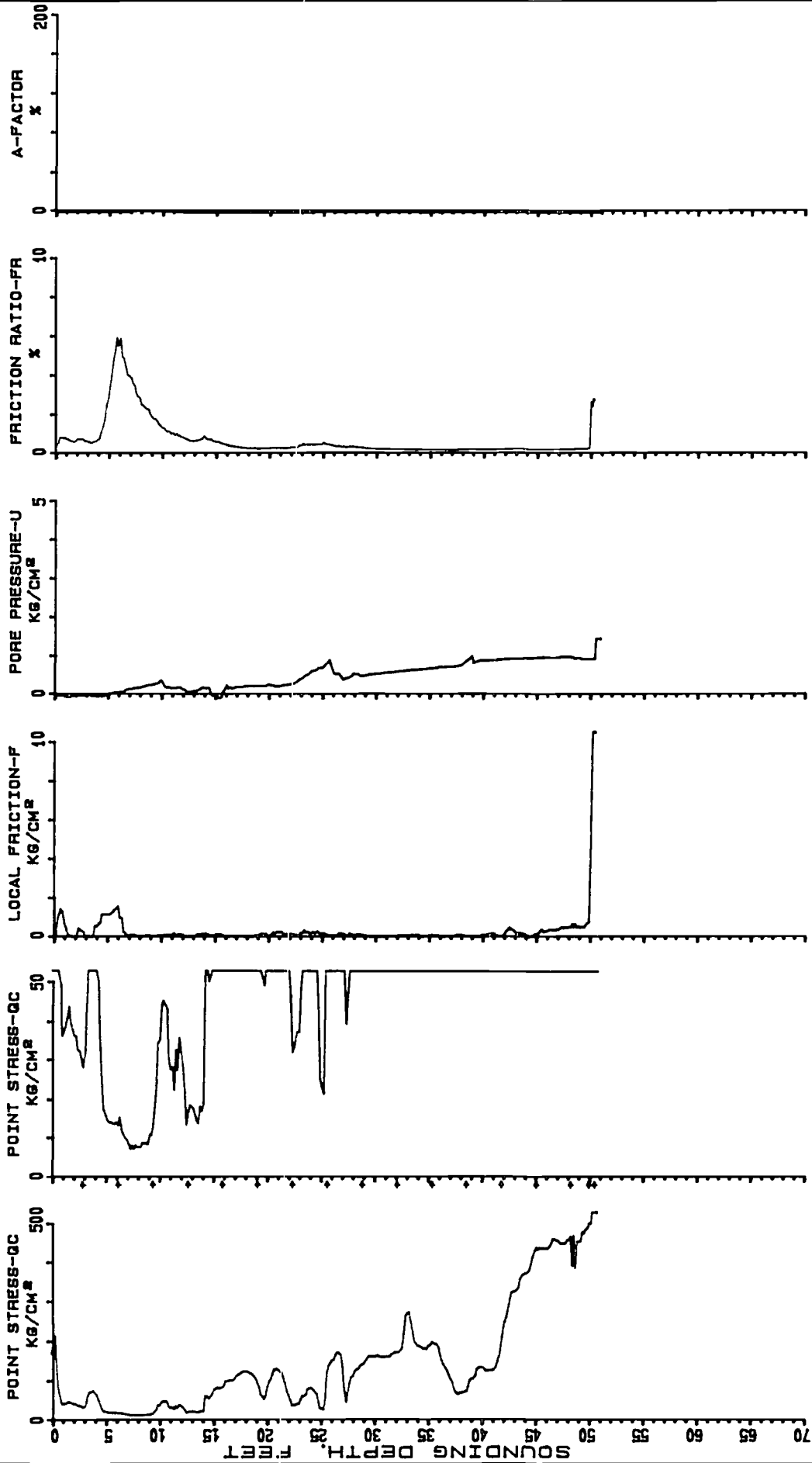
PIEZOcone SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S11
 SOUNDING DATE 12/12/91 16:17:03

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

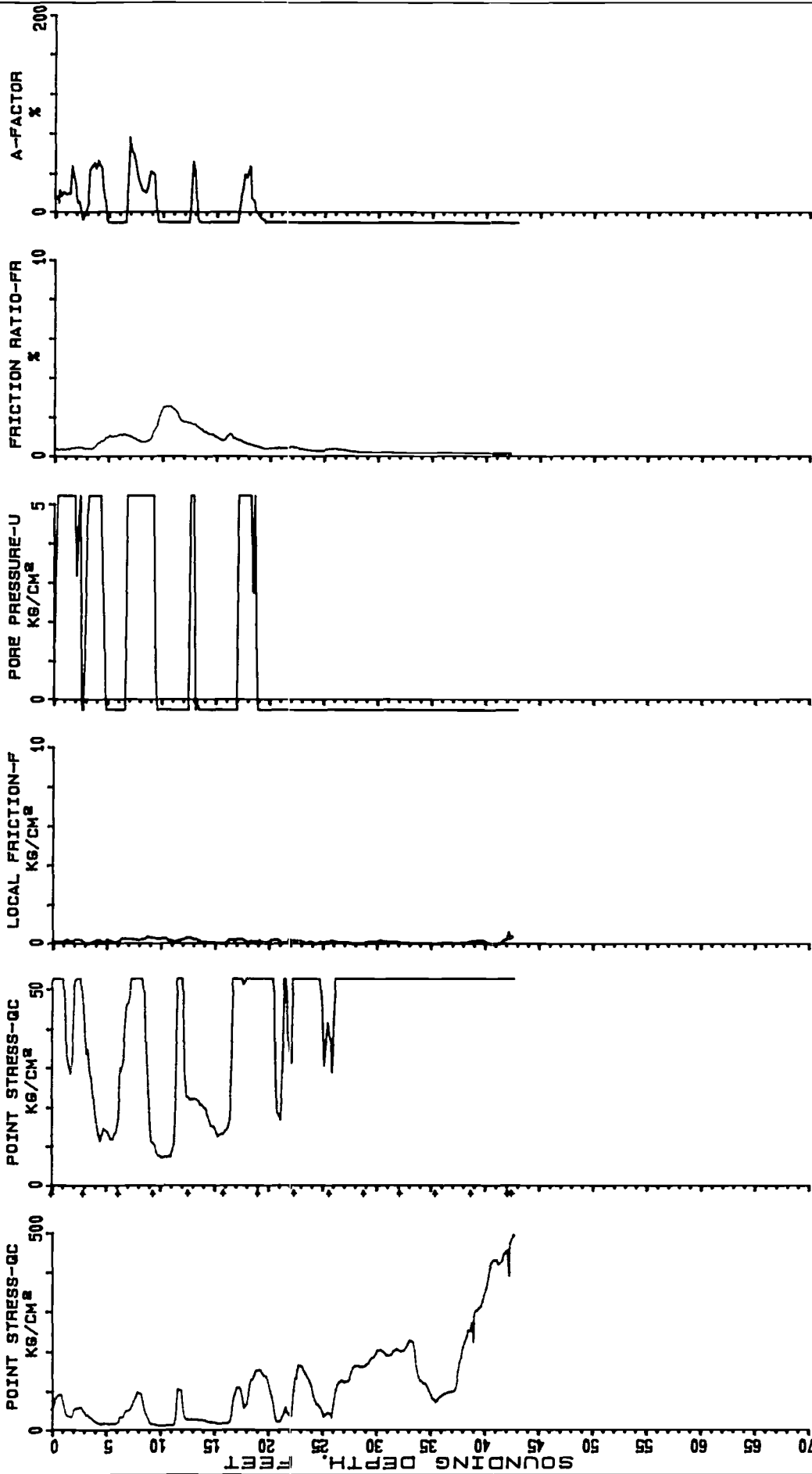
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S14
 SOUNDING DATE 12/13/91 08: 10: 38

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

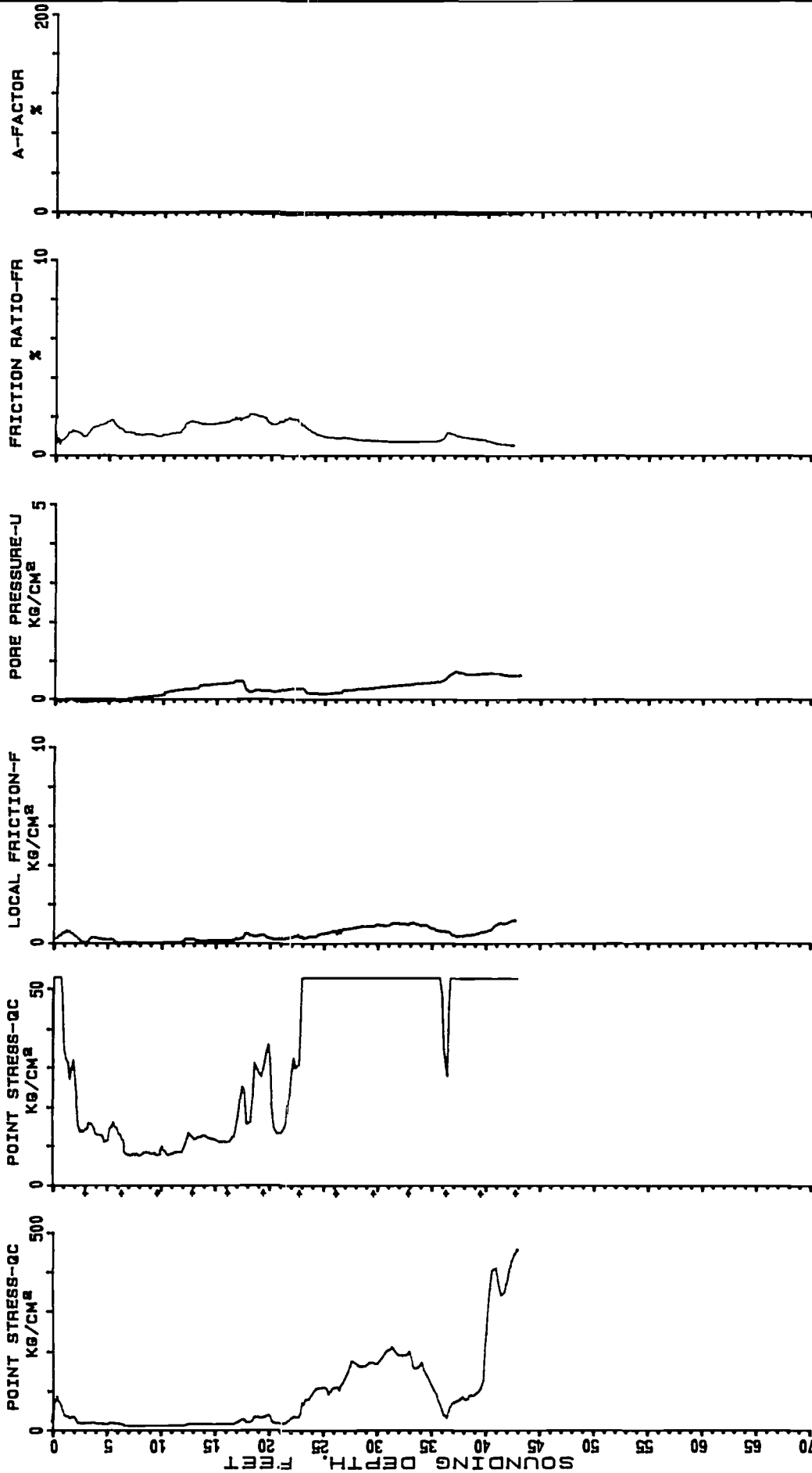
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S12
 SOUNDING DATE 12/12/91 15:56:24

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

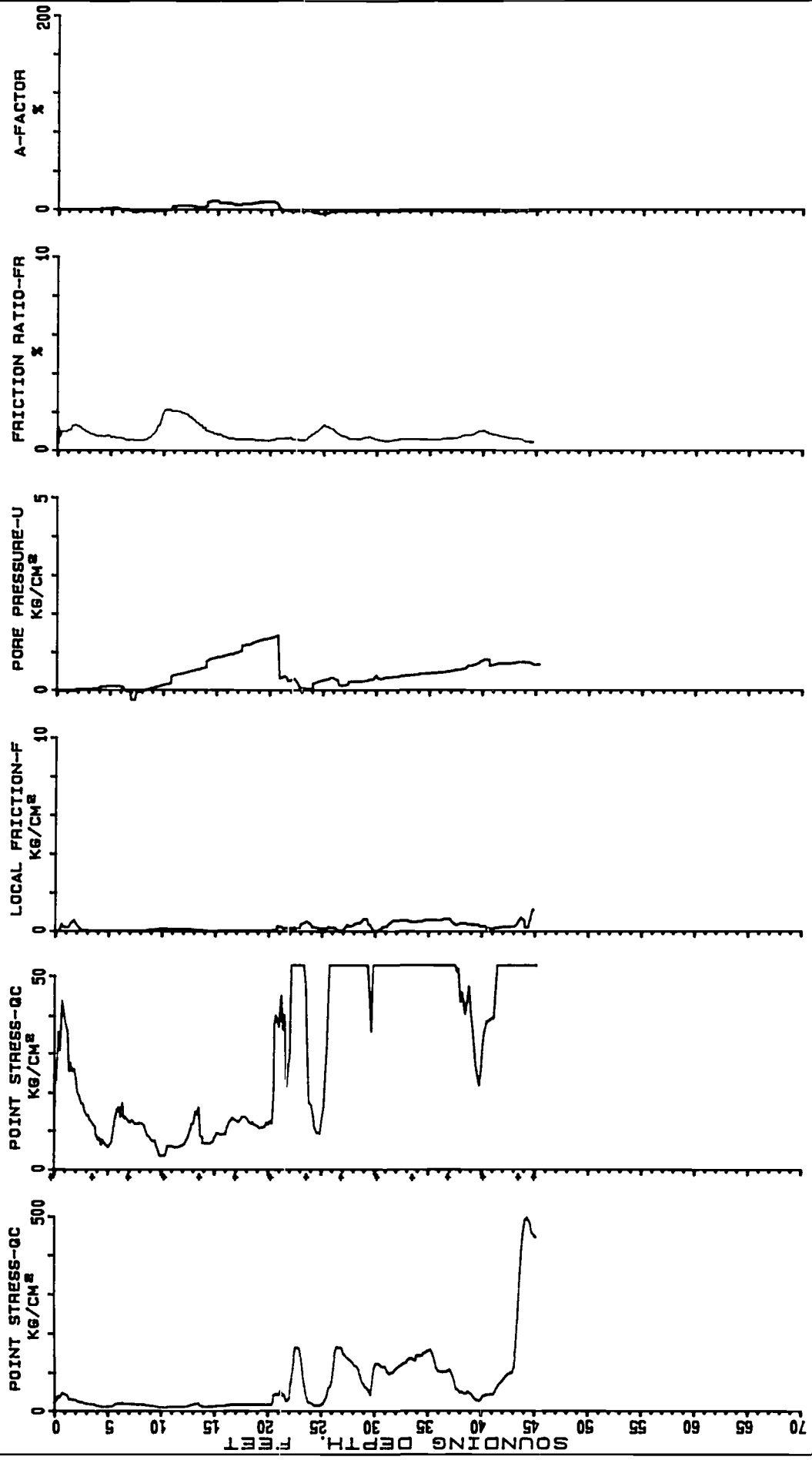
PIEZOcone SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S15
 SOUNDING DATE 12/13/91 13:07:12

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

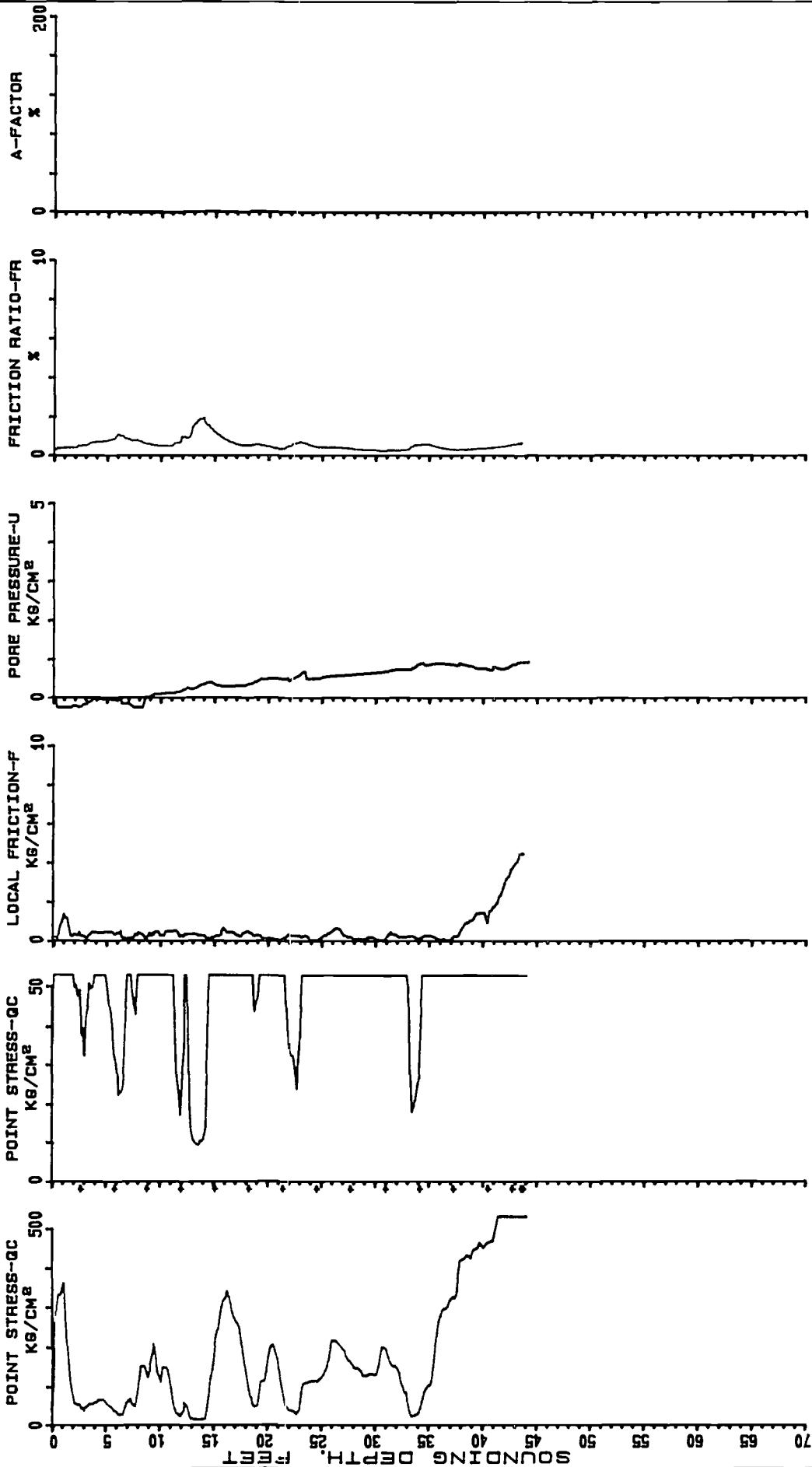
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S17
 SOUNDING DATE 12/14/91 08:34:09

* PUSH INTERRUPTED TO ADD RID
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

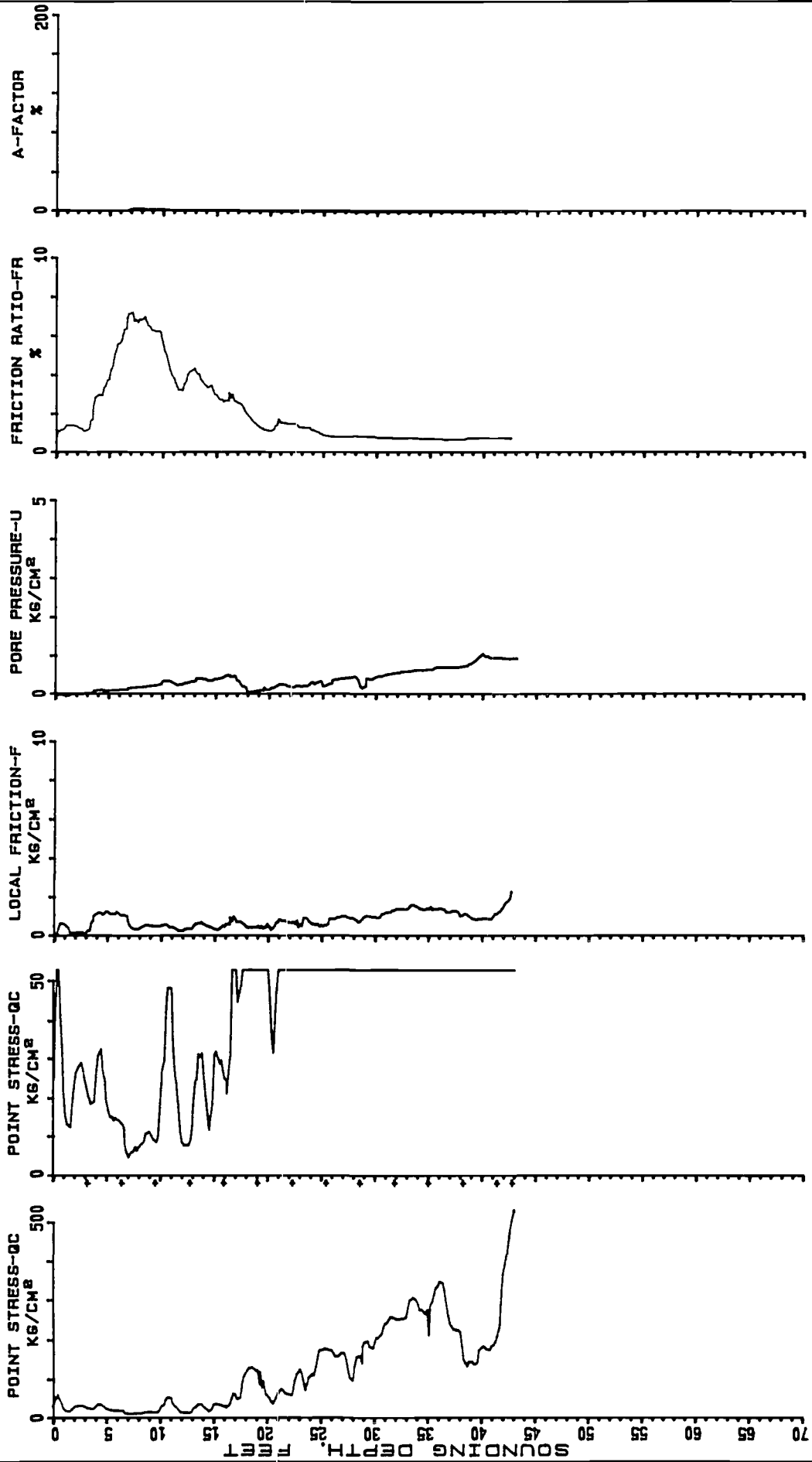
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # 518
 SOUNDING DATE 12/13/91 16: 08: 43

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

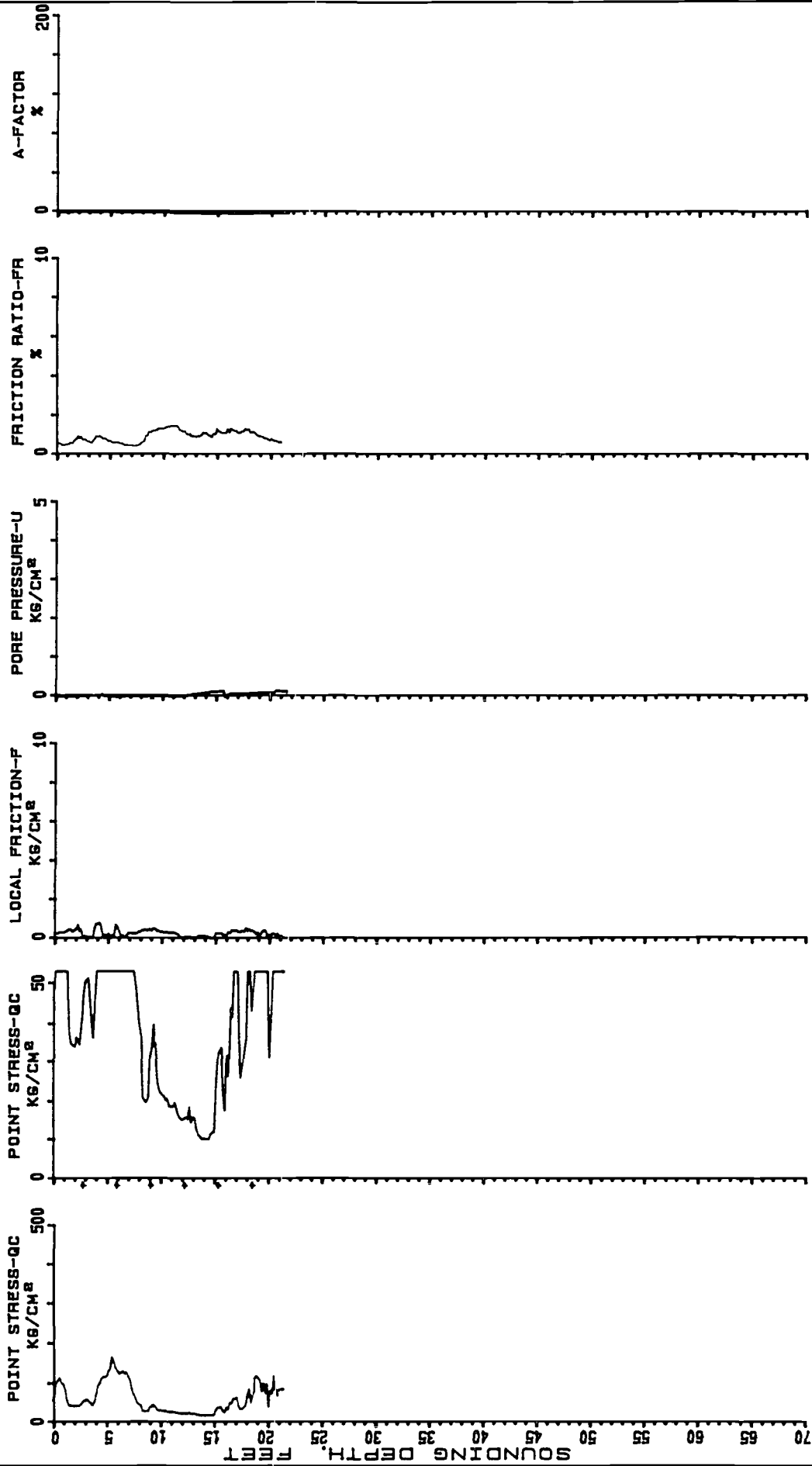
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S23
 SOUNDING DATE 12/15/91 11:42:55

* PUSH INTERRUPTED TO ADD P00
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

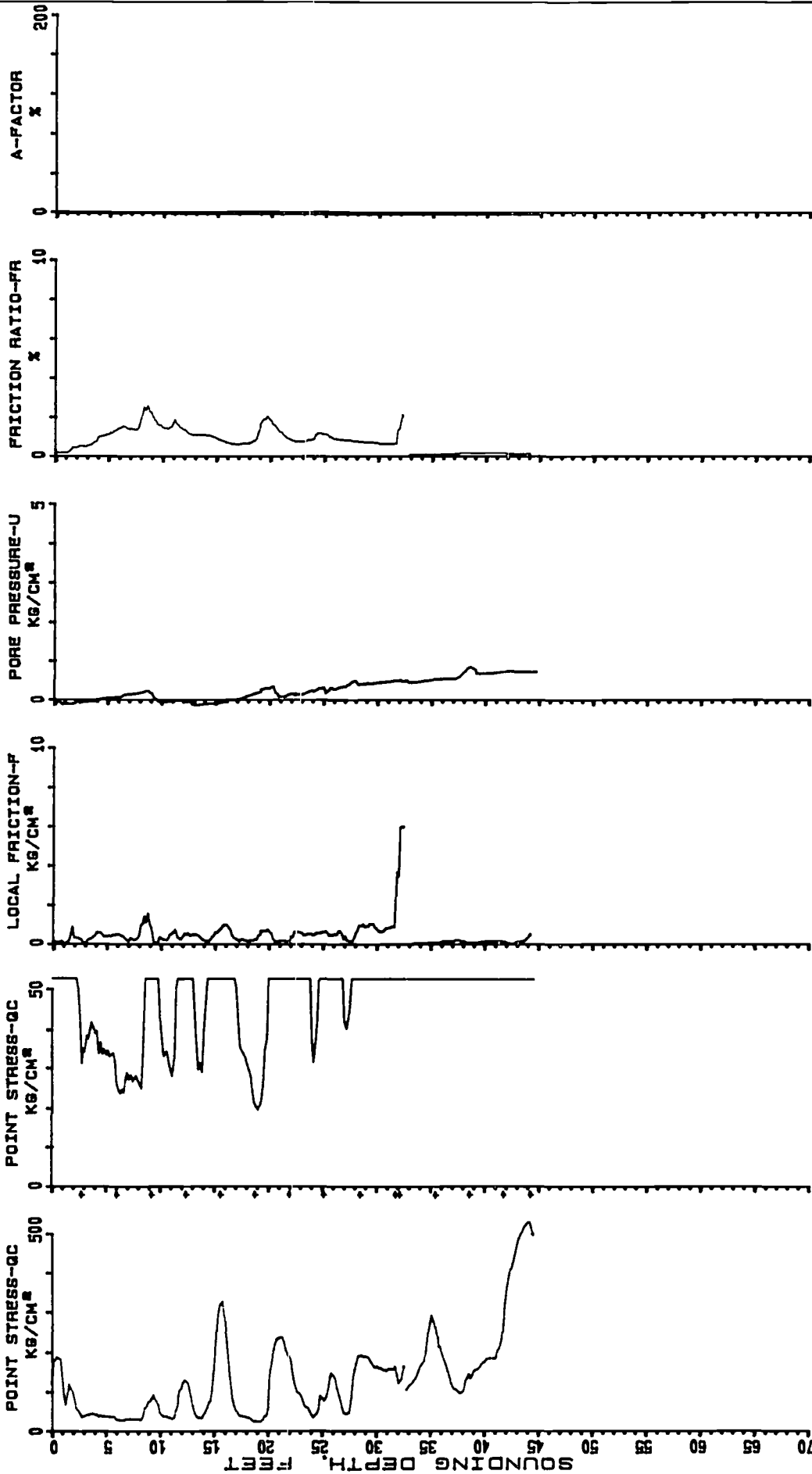
PIEZOONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S24
 SOUNDING DATE 12/14/91 14:53:31

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

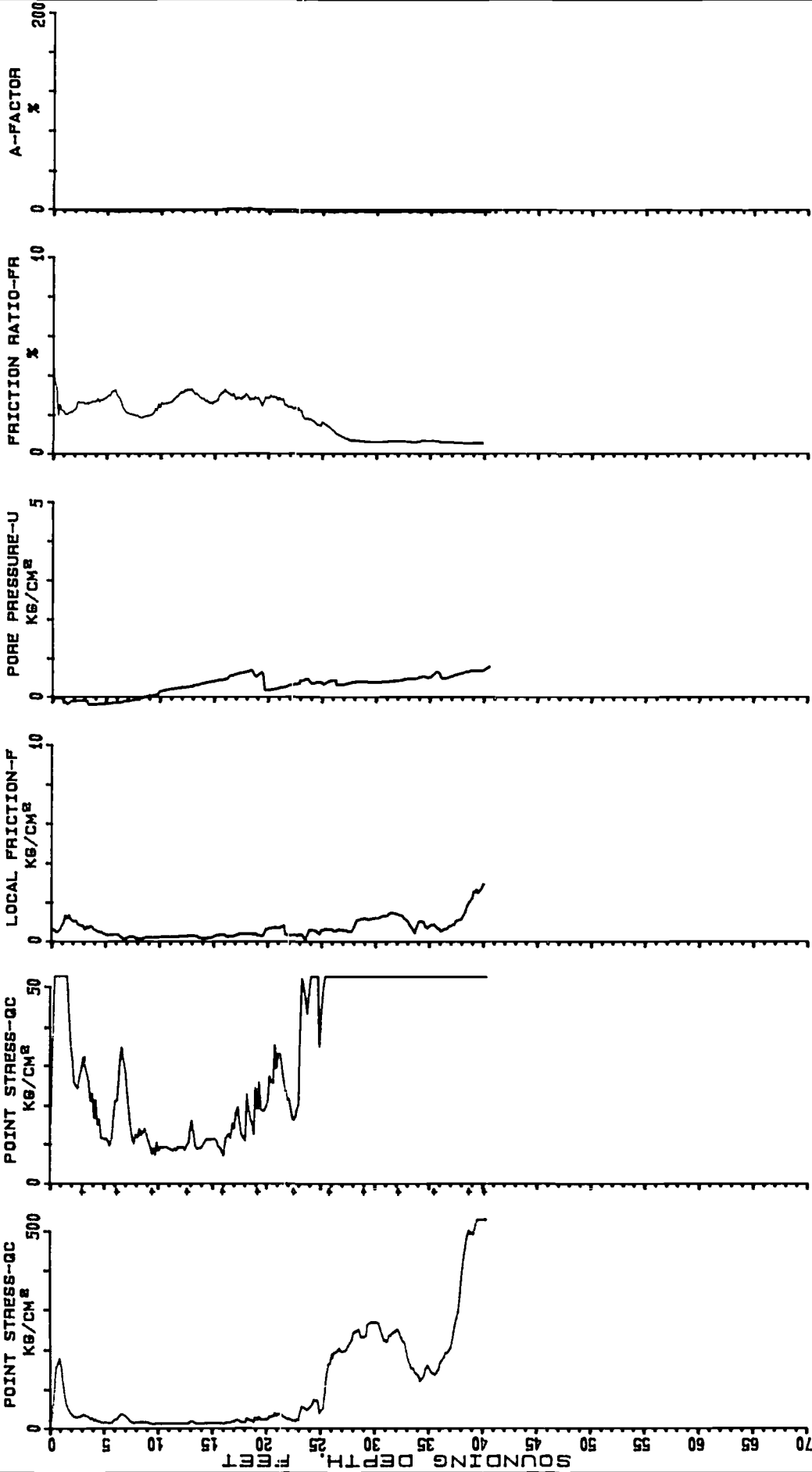
PIEZOcone SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S26
 SOUNDING DATE 12/15/91 08:27:33

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

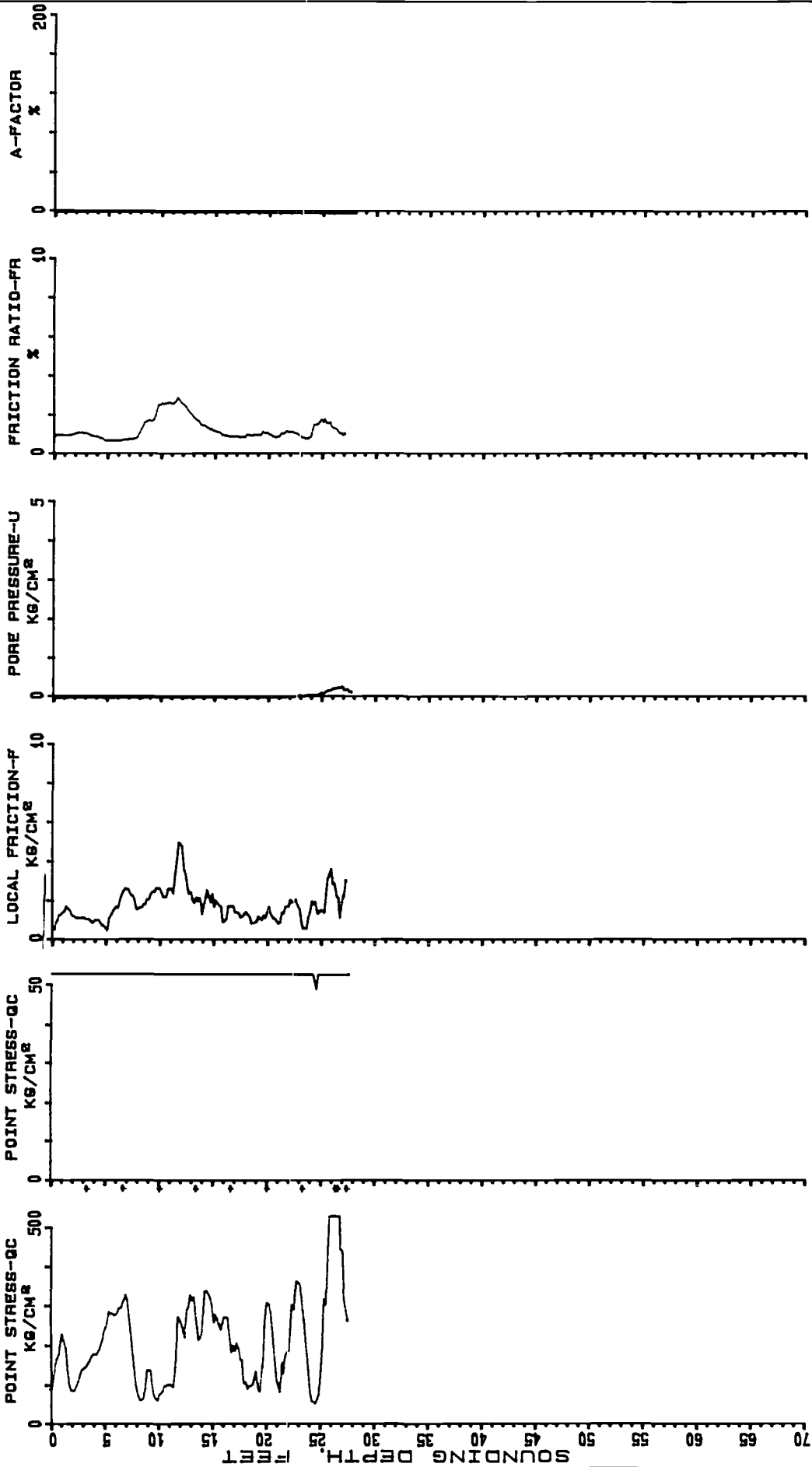
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S27
 SOUNDING DATE 12/16/91 09:21:19

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

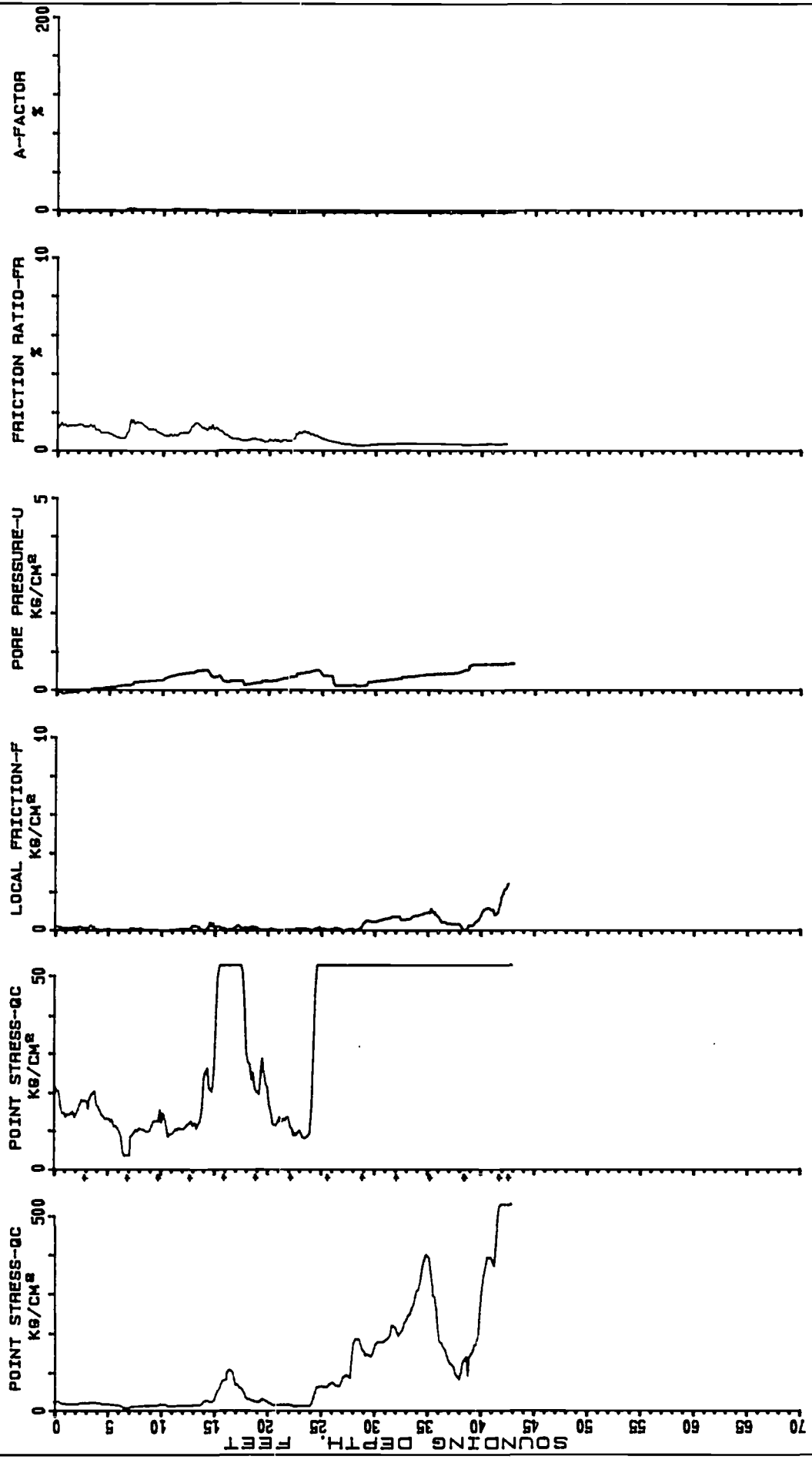
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S29
 SOUNDING DATE 12/16/91 11: 47: 28

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

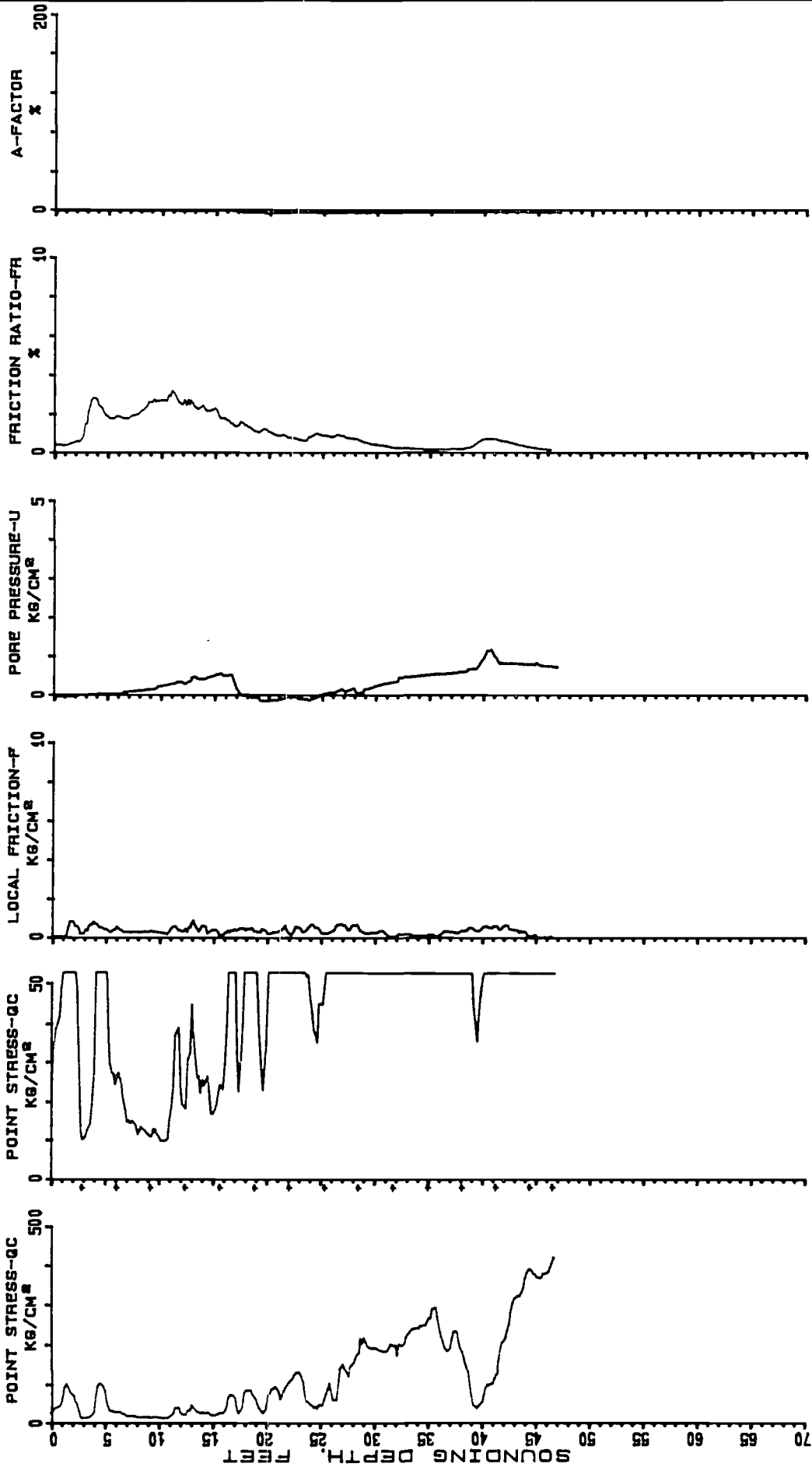
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S30
 SOUNDING DATE 12/15/91 16:18:06

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

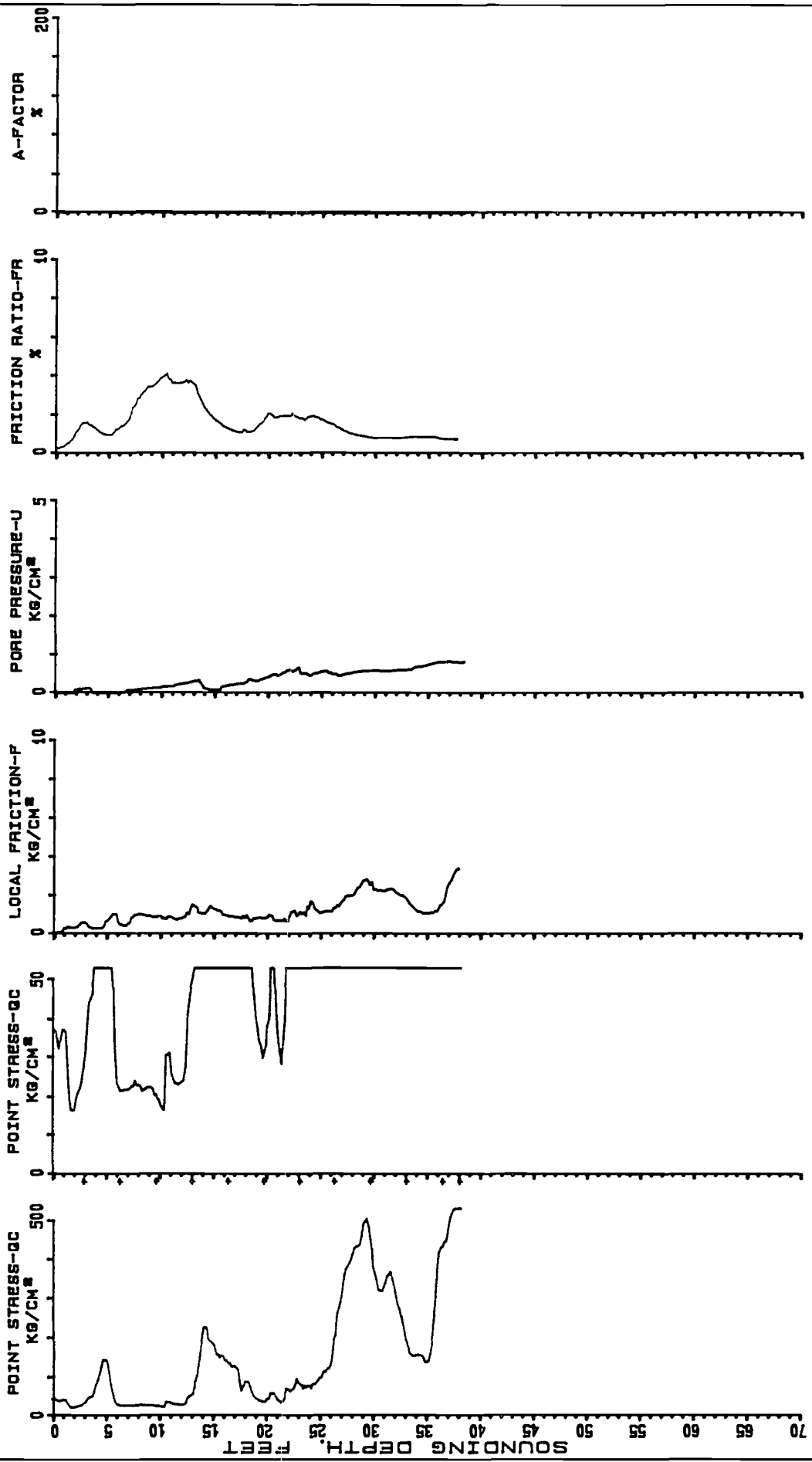
PIEZOONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S32
 SOUNDING DATE 12/17/91 10:53:59

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

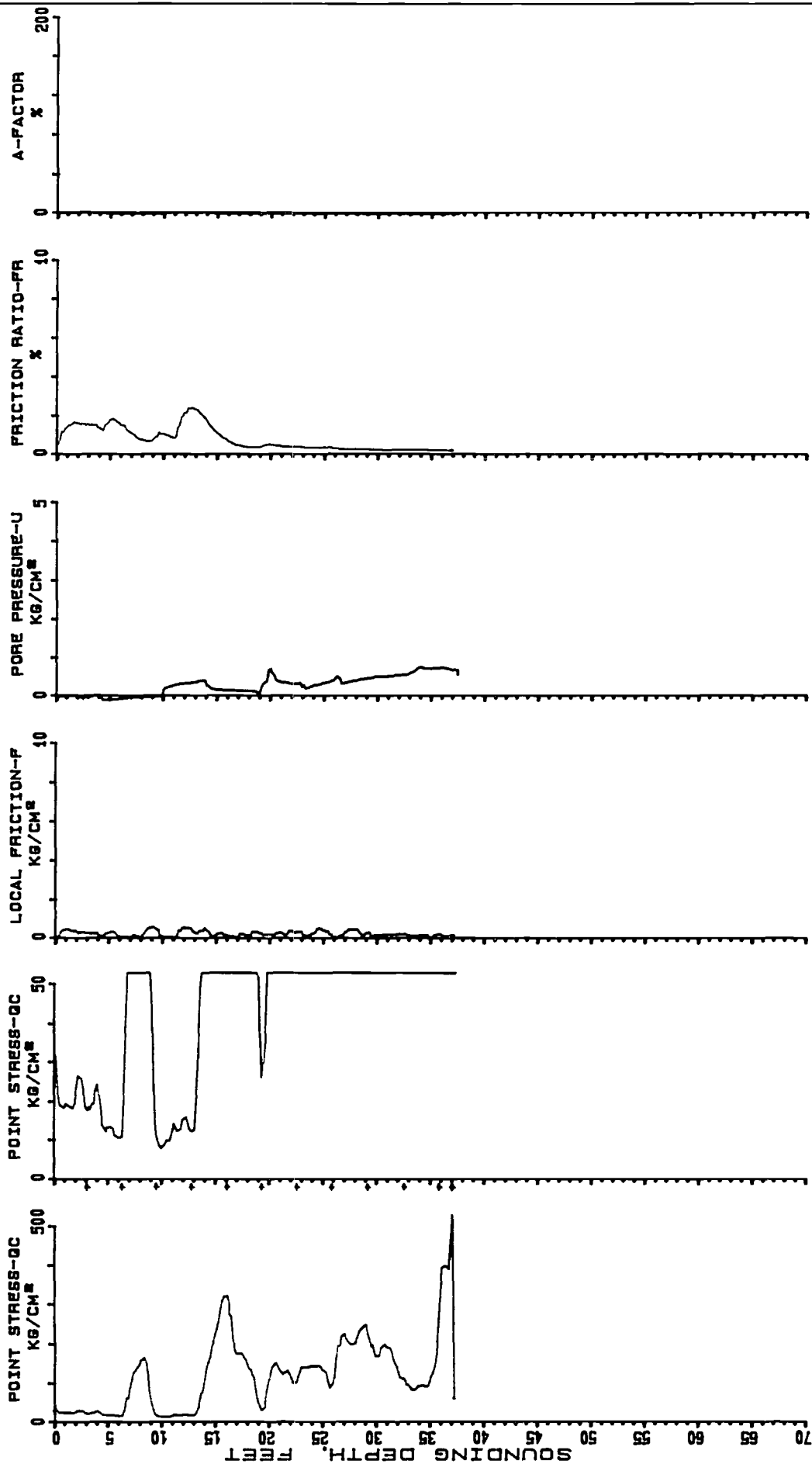
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S33
 SOUNDING DATE 12/16/91 16:42:40

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

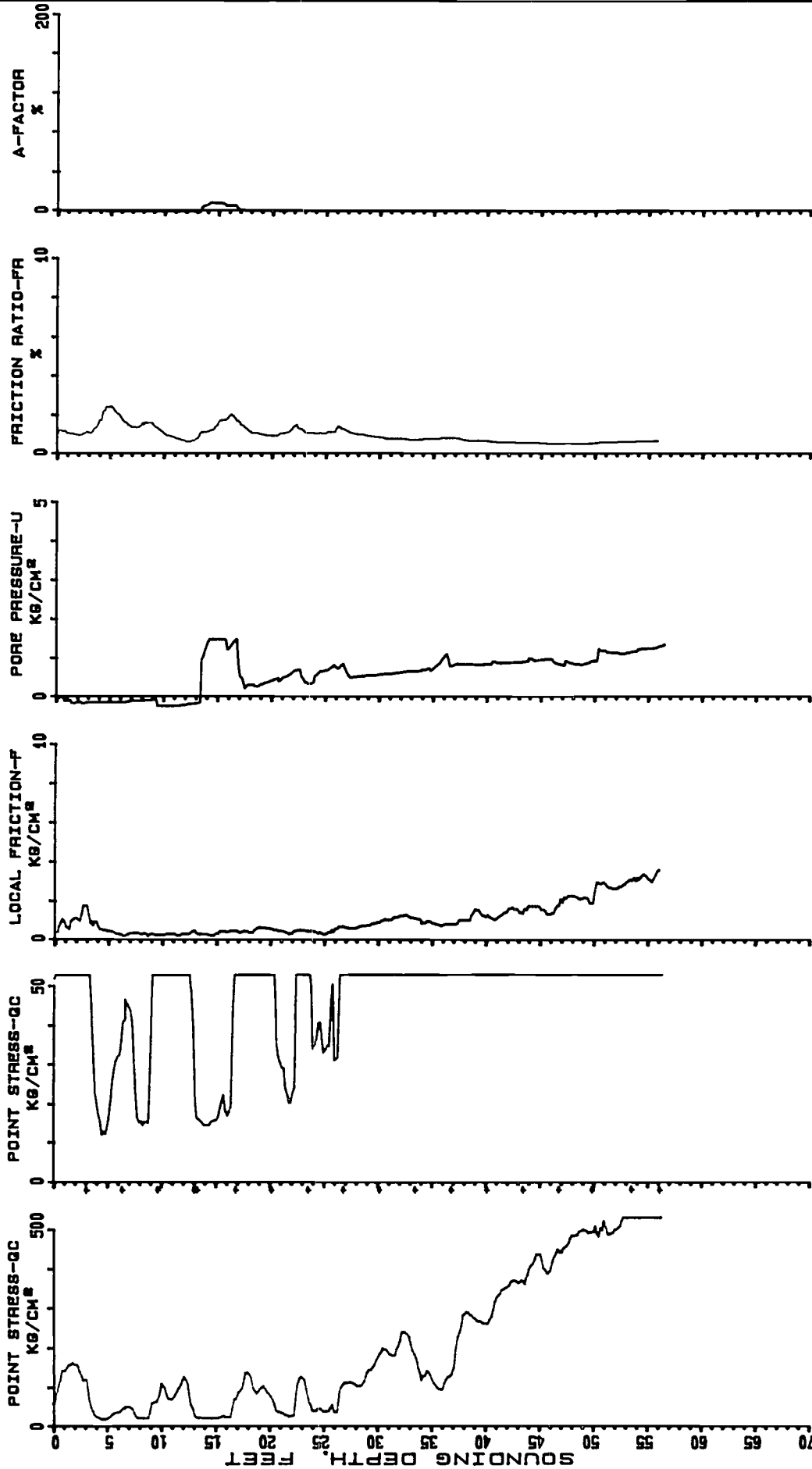
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S34
 SOUNDING DATE 01/01/83 00: 07: 14

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

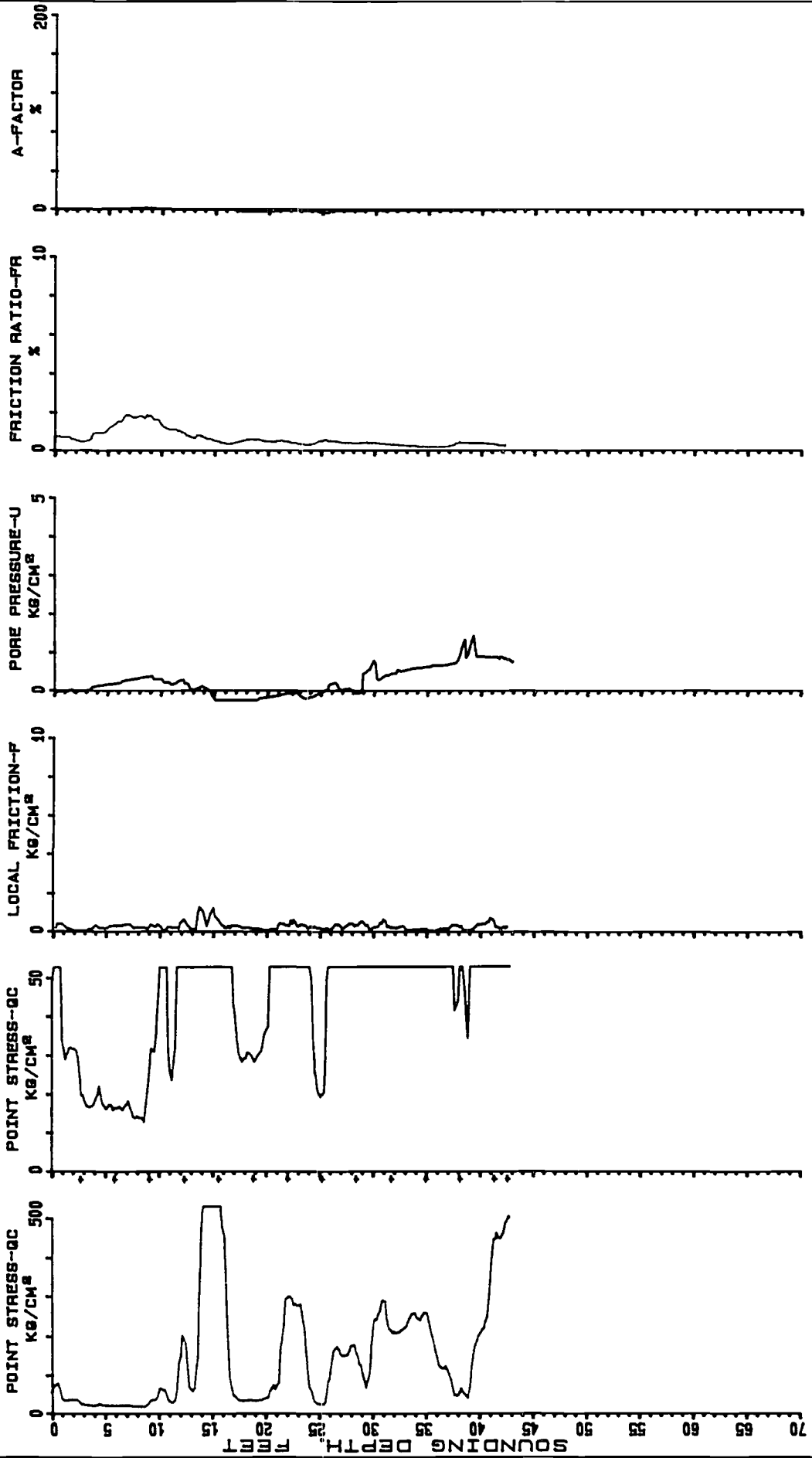
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # ... S37
 SOUNDING DATE 12/17/91 16: 21: 49

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

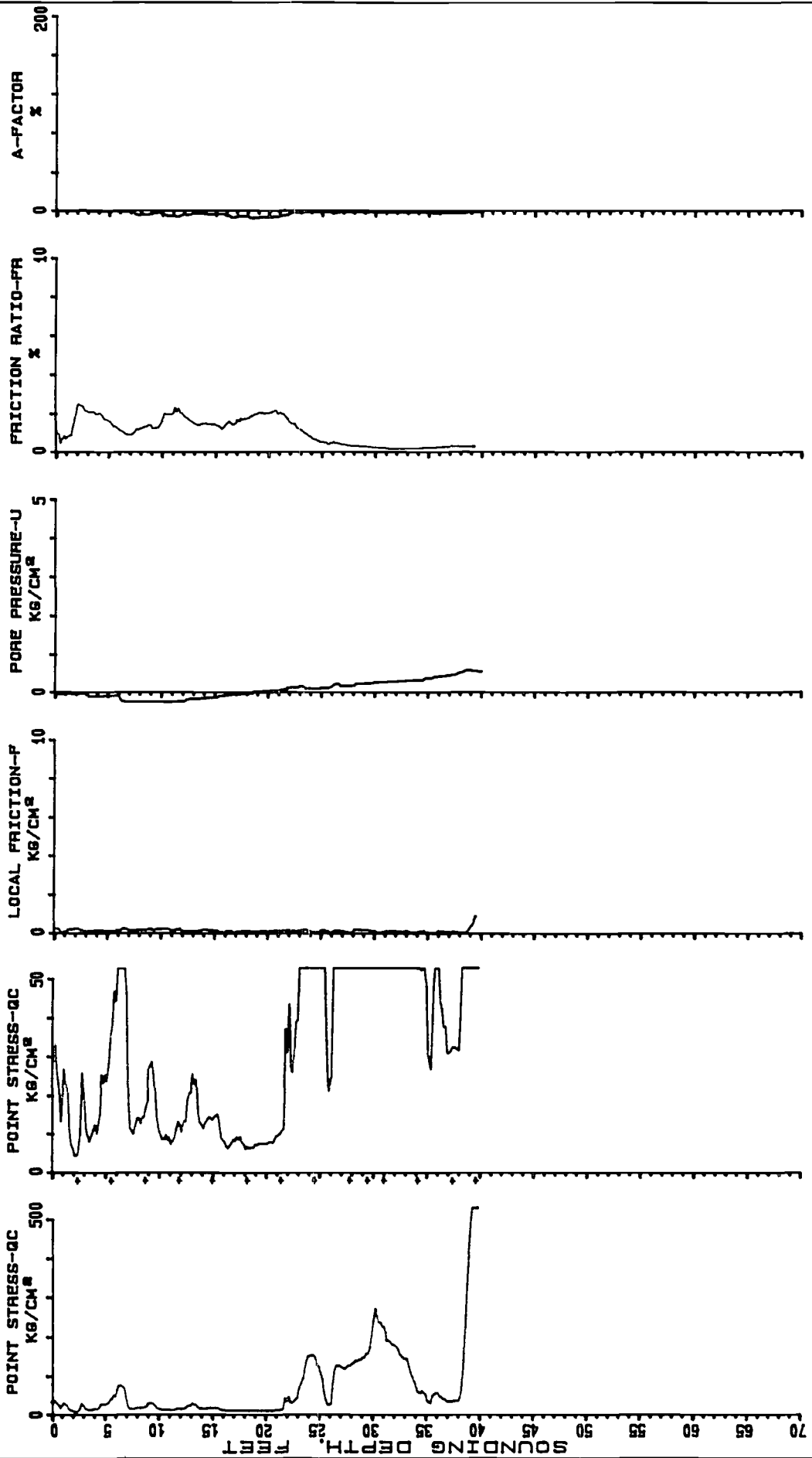
PIEZOcone SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # 538
 SOUNDING DATE 12/18/91 12: 16: 23

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

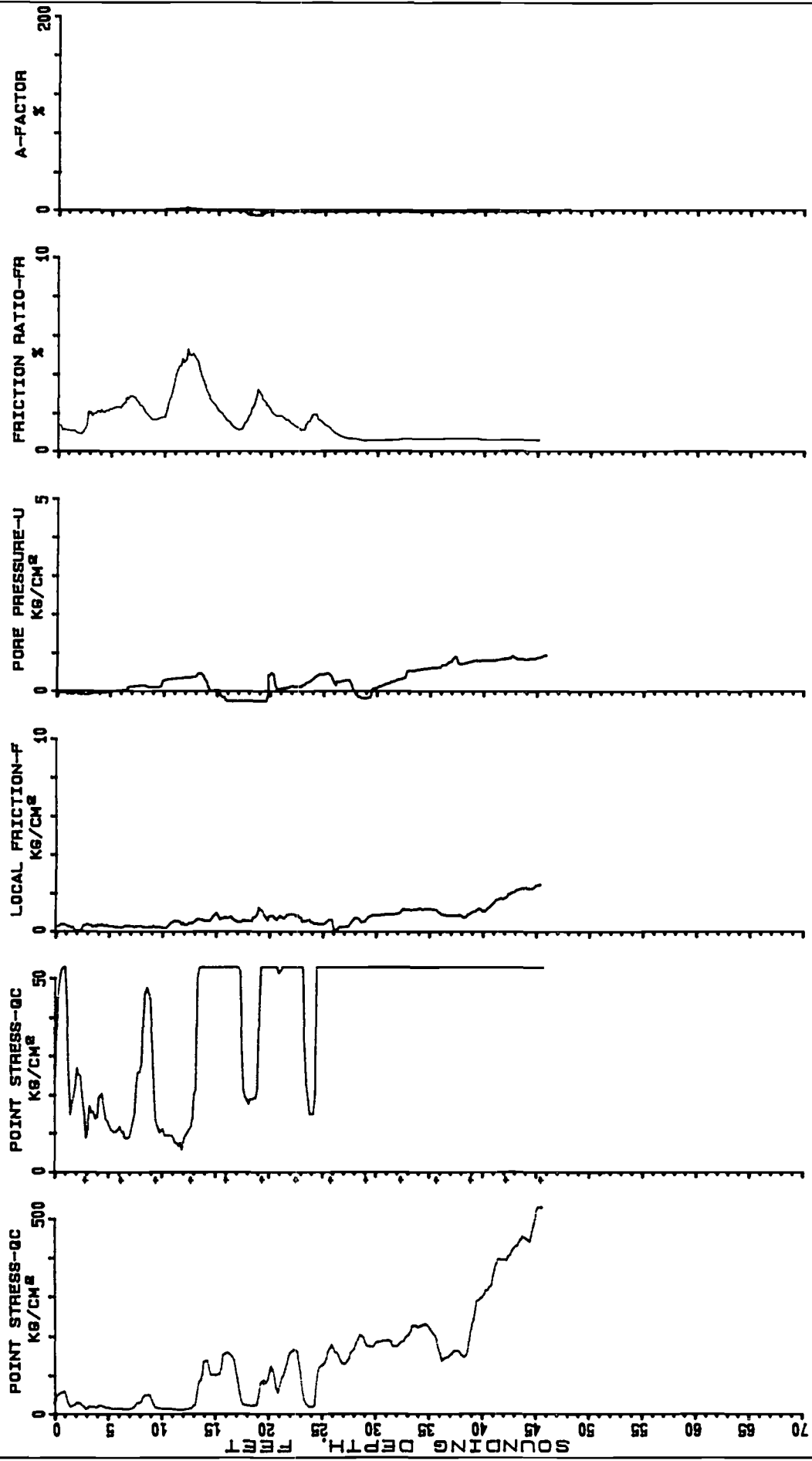
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S40
 SOUNDING DATE 12/18/91 14:43:11

* PUSHER INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

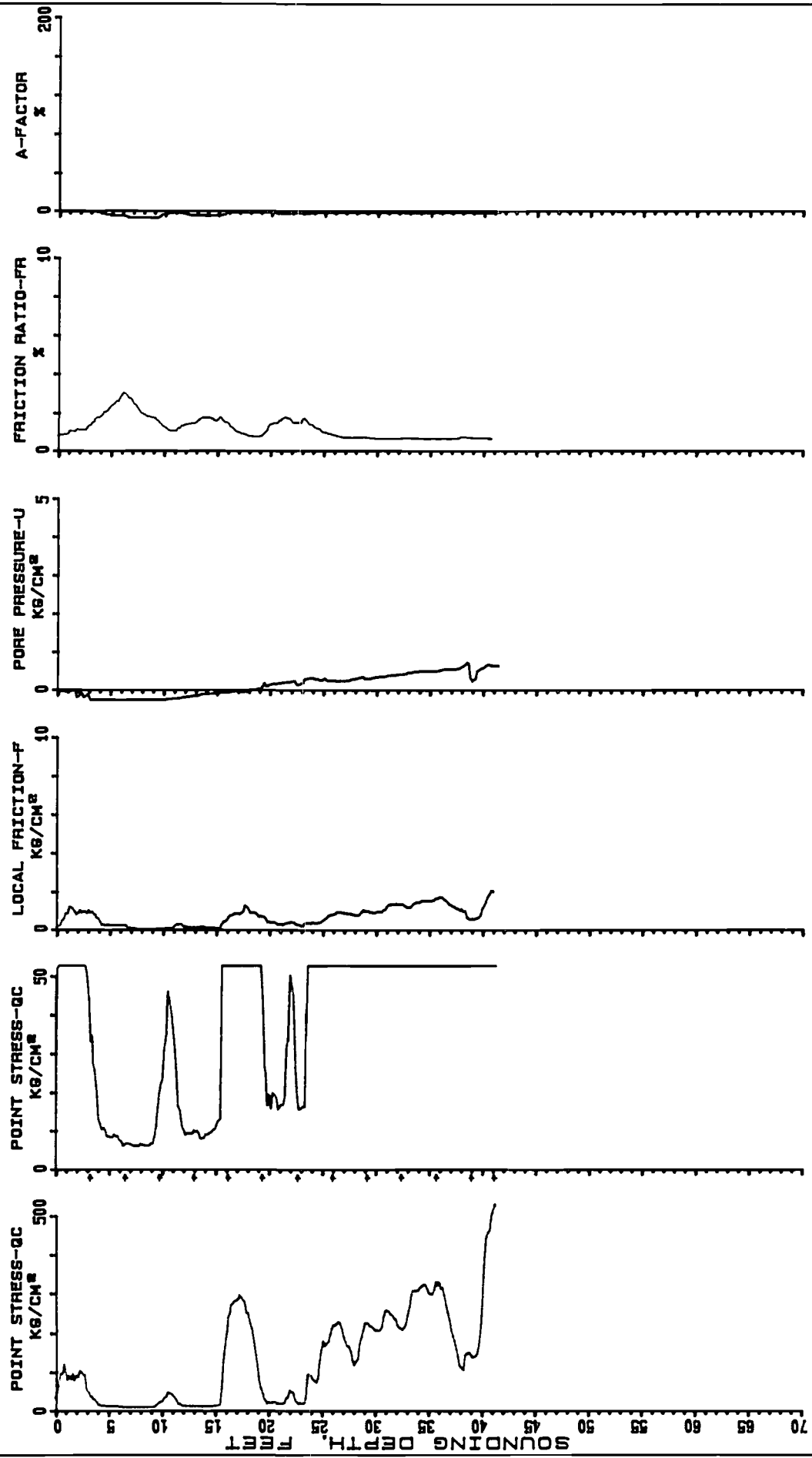
PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S41
 SOUNDING DATE 12/18/91 12: 24: 56

* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

PIEZOCONE SOUNDING TEST



FILE # 68-W9-0057
 ABC CLEANERS
 JACKSONVILLE N.C.
 SOUNDING # S43
 SOUNDING DATE 12/18/91 15:02:04

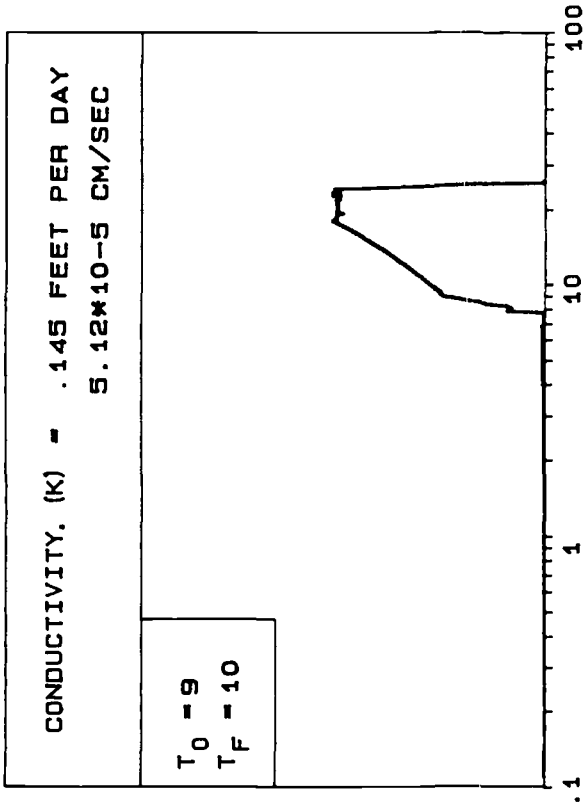
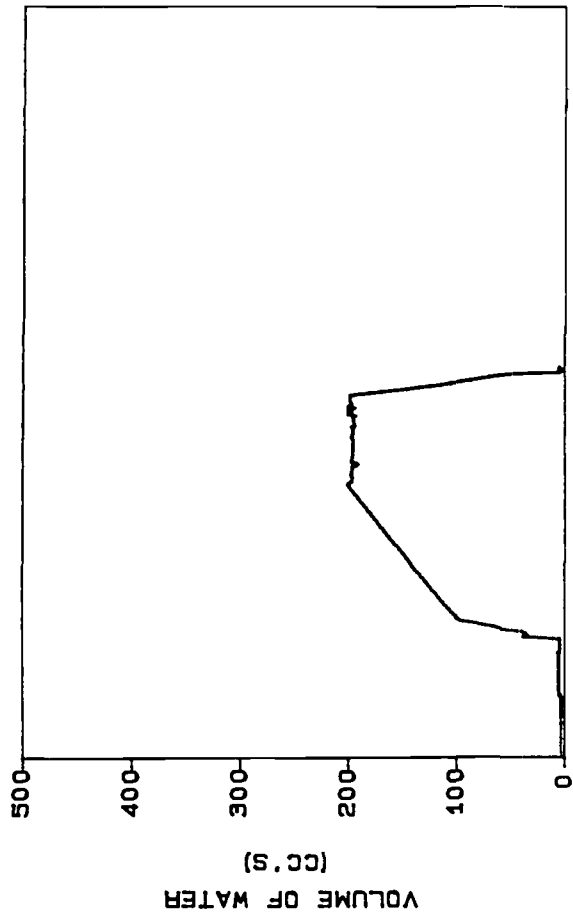
* PUSH INTERRUPTED TO ADD ROD
 * PORE PRESSURE DECAY DATA MAY BE AVAILABLE

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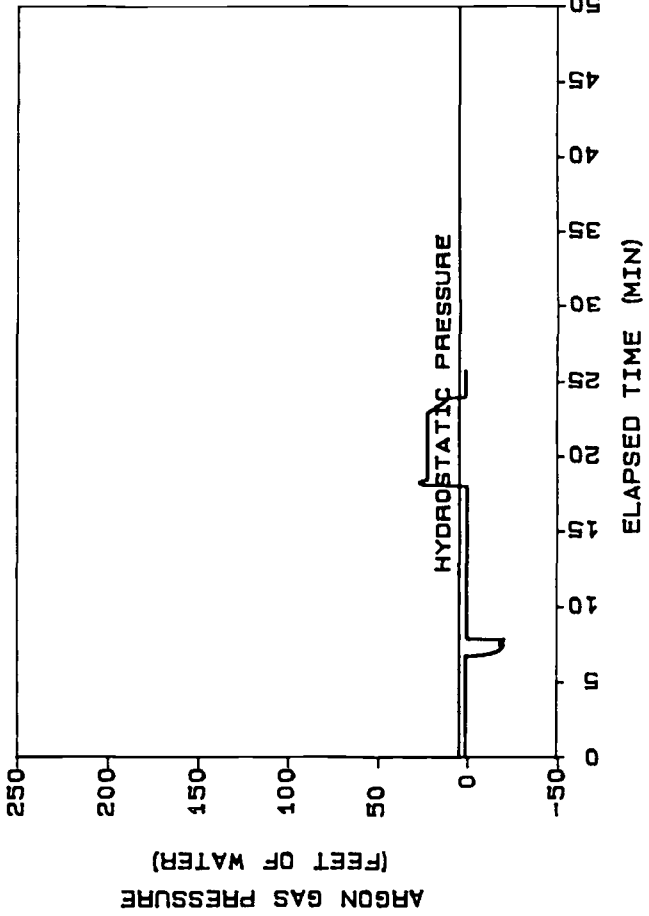
Remedial Investigation Report
ABC One-Hour Cleaners, Inc.
Jacksonville, Onslow County, North Carolina
Section: Appendix B
Revision: 1
Date: November 1992

HYDROPHONE DATA

HYDROCONE TEST



VOLUME OF WATER
(CC'S)



ARGON GAS PRESSURE
(FEET OF WATER)

HYDROSTATIC PRESSURE

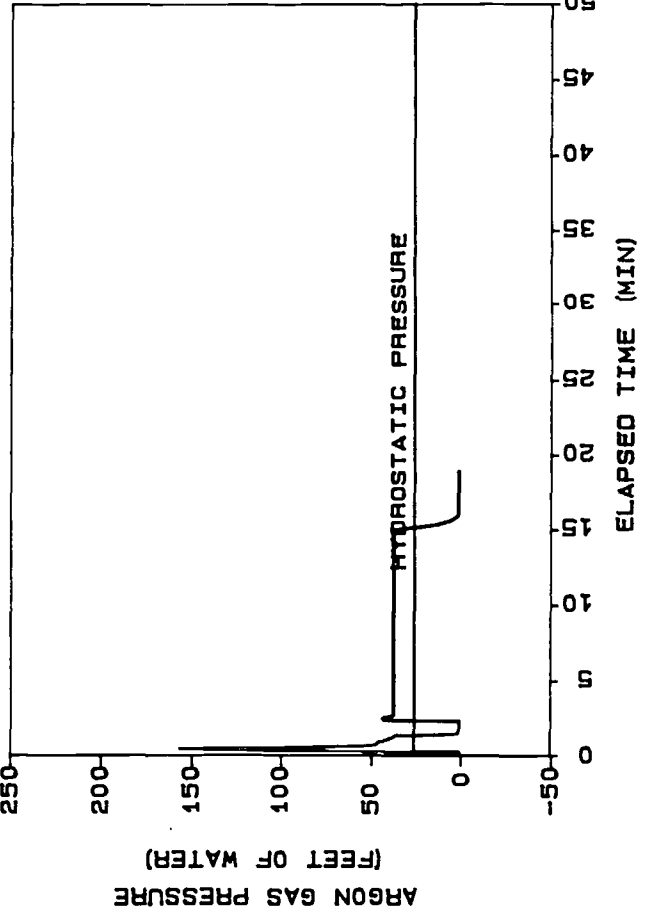
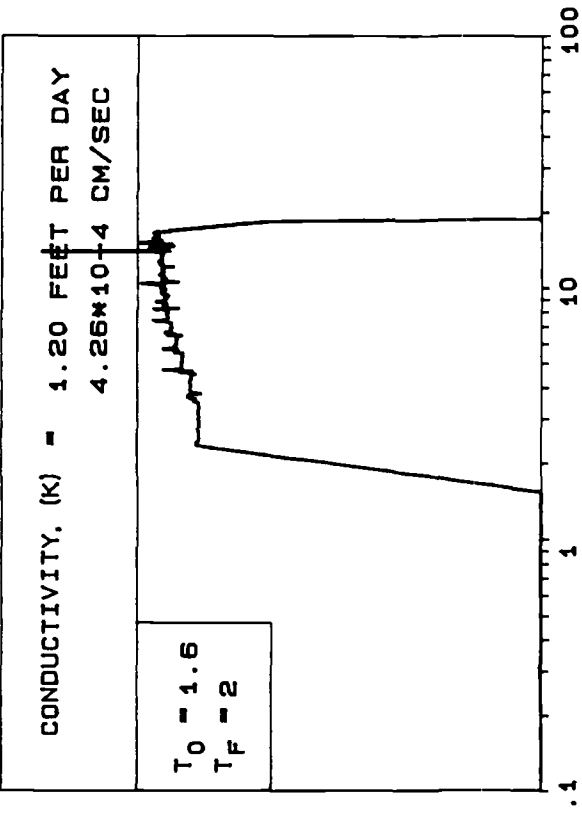
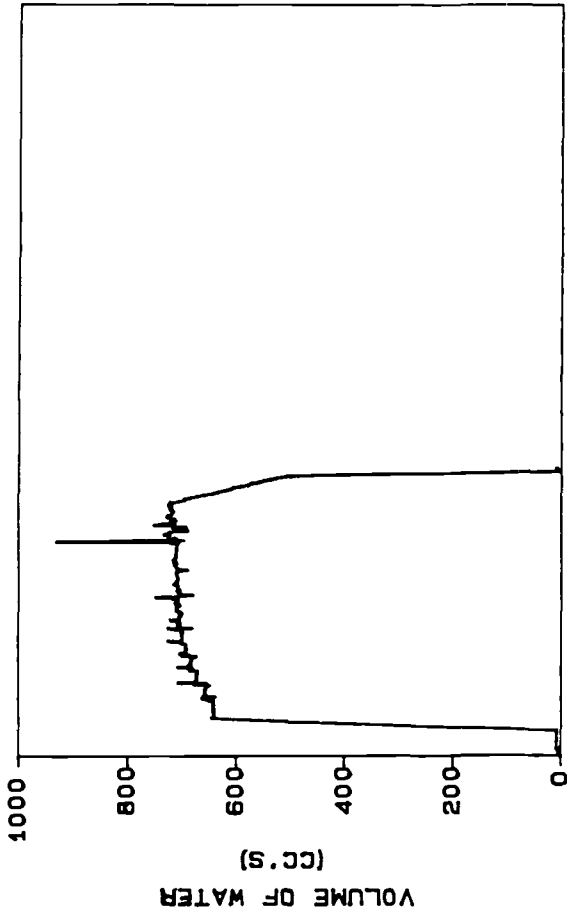
CONDUCTIVITY, (K) = .145 FEET PER DAY
5.12*10⁻⁵ CM/SEC

T₀ = 9
T_F = 10

ELAPSED TIME LOG (MIN)

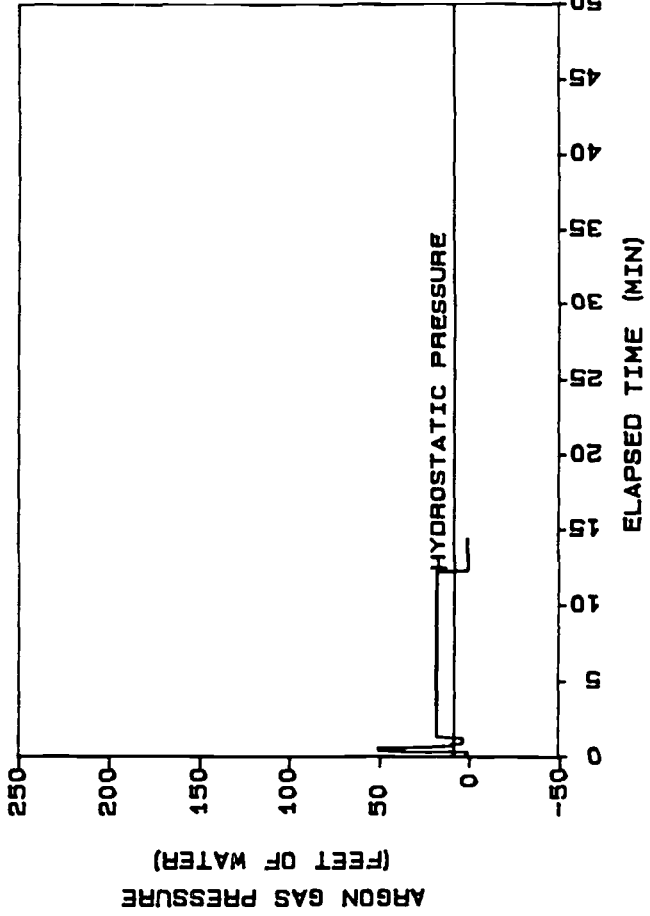
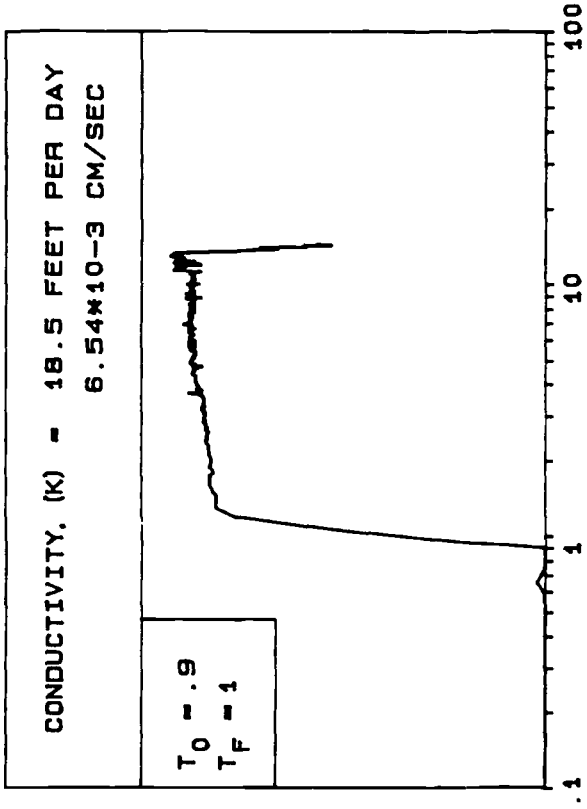
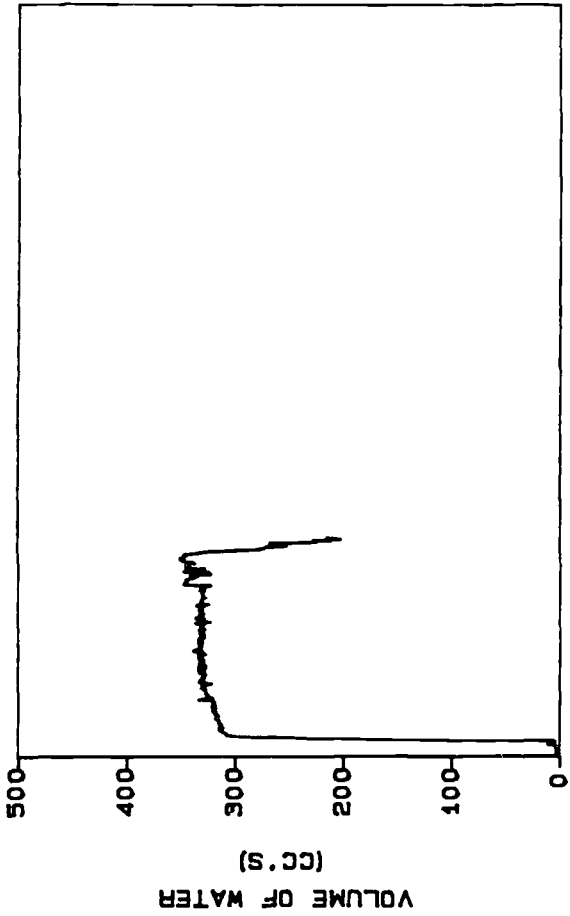
ABC CLEANERS
LOCATION... HC1-17.5
TEST DATE
12/11/91 09:37:38
SAMPLE DEPTH (FT) 17.5
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC1-39
 TEST DATE
 12/11/91 08: 42: 48
 SAMPLE DEPTH (FT) 39
 GROUNDWATER DEPTH (FT) 14

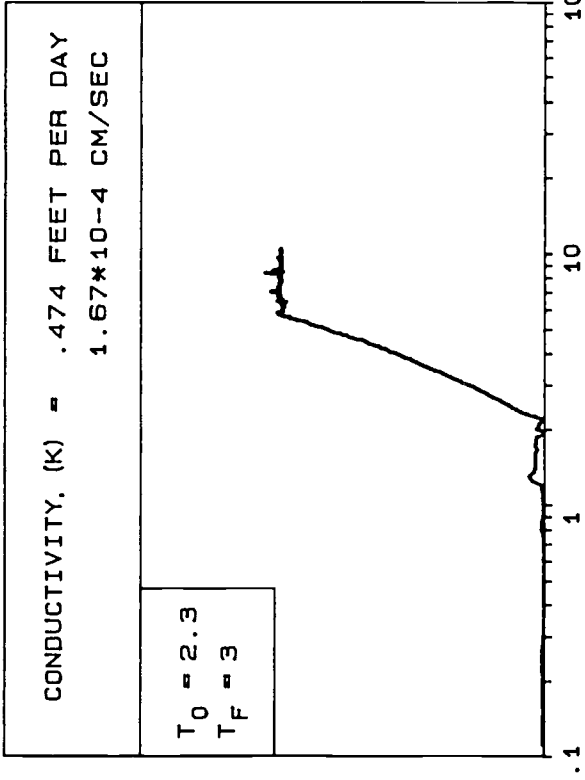
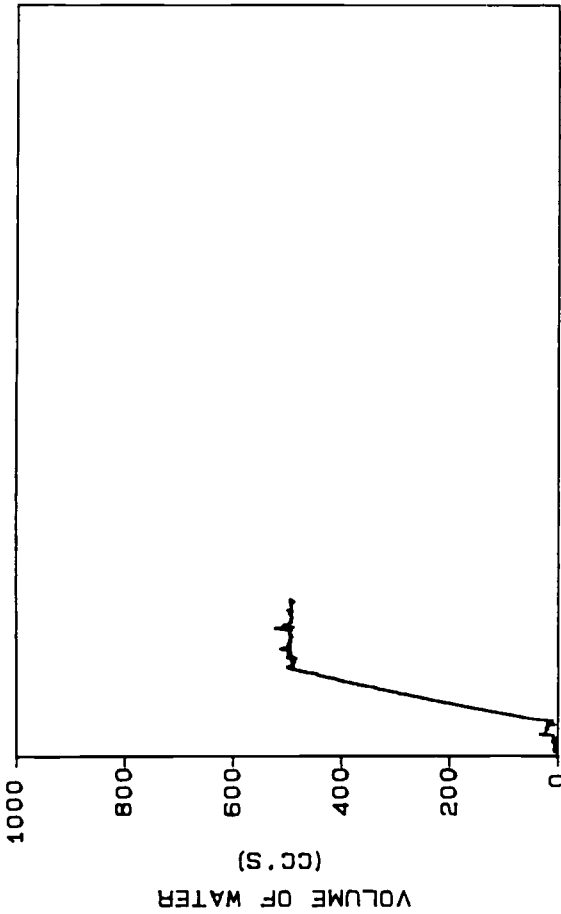
HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC2-21.5
 TEST DATE
 12/11/91 09:30:09

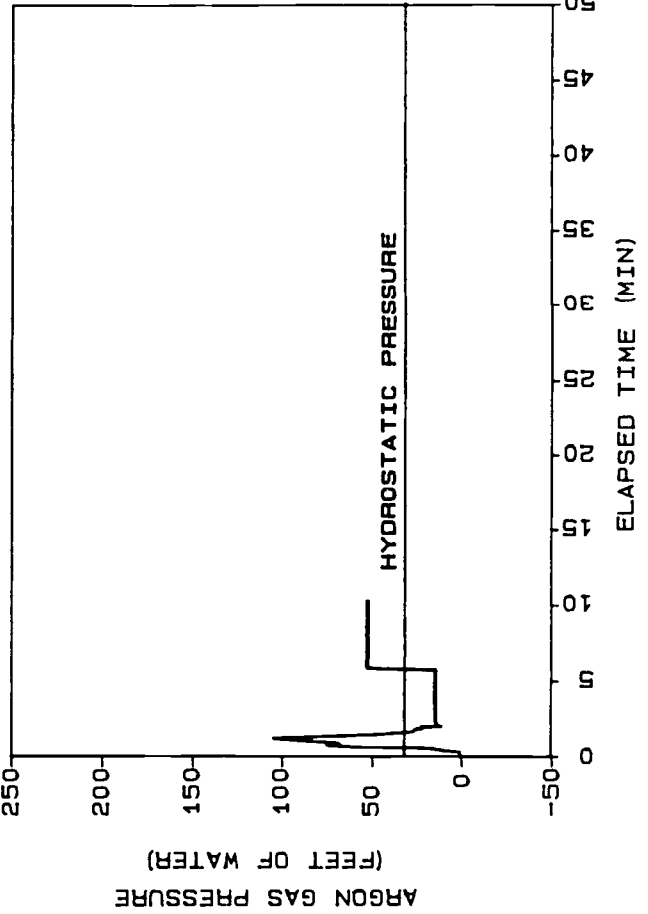
SAMPLE DEPTH (FT) 21.5
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



CONDUCTIVITY, (K) = .474 FEET PER DAY
1.67*10⁻⁴ CM/SEC

T₀ = 2.3
T_F = 3



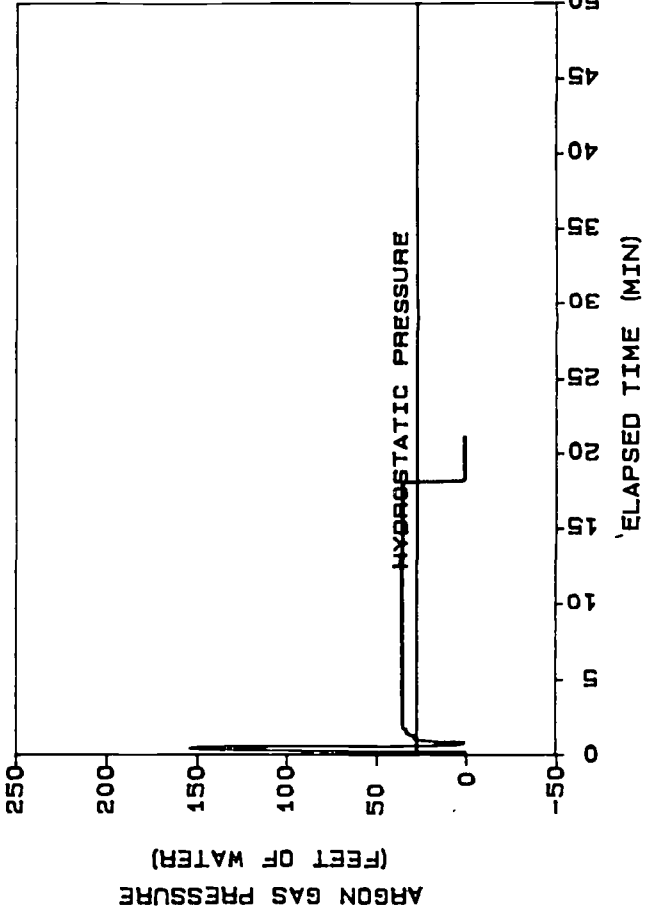
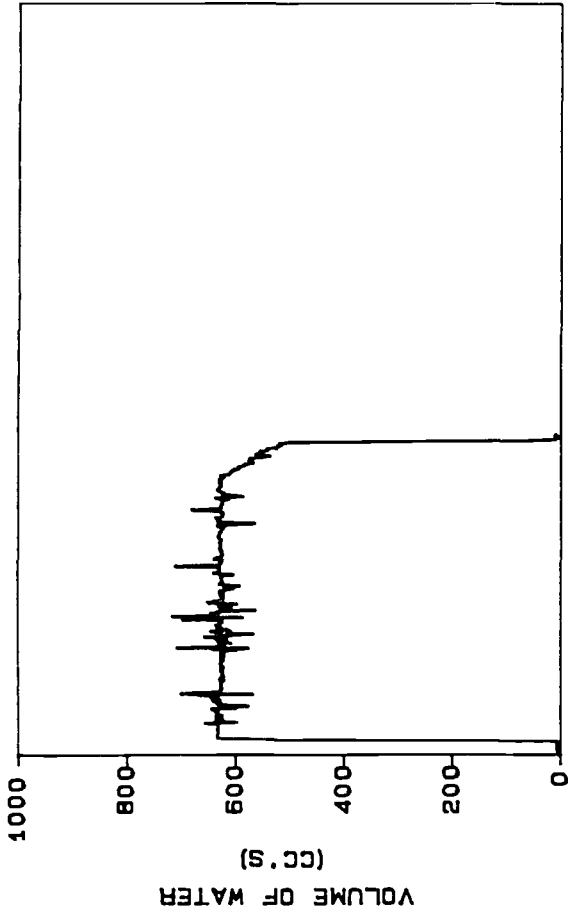
HYDROSTATIC PRESSURE

ABC CLEANERS
LOCATION... HC2-44.5
TEST DATE
12/11/91 08:29:32
SAMPLE DEPTH (FT) 44.5
GROUNDWATER DEPTH (FT) 14

ELAPSED TIME LOG (MIN)

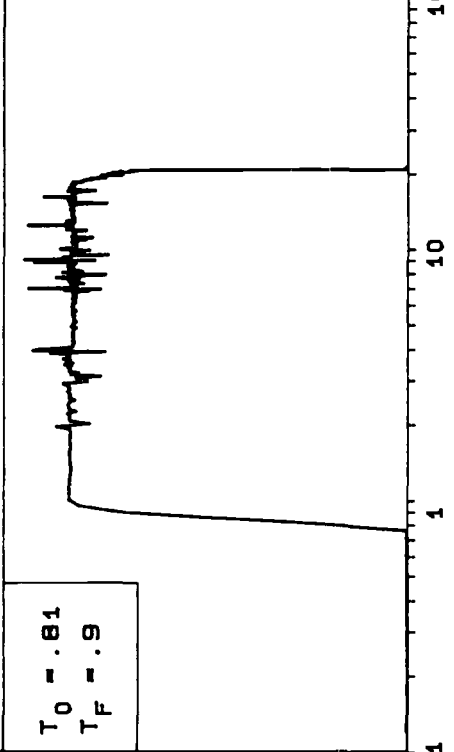
ELAPSED TIME (MIN)

HYDROCONE TEST



CONDUCTIVITY, (K) = 70.2 FEET PER DAY
2.47*10⁻² CM/SEC

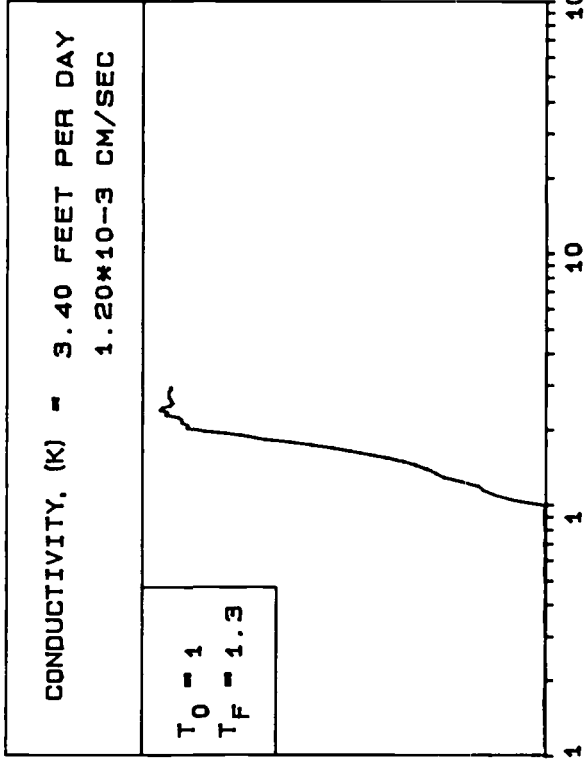
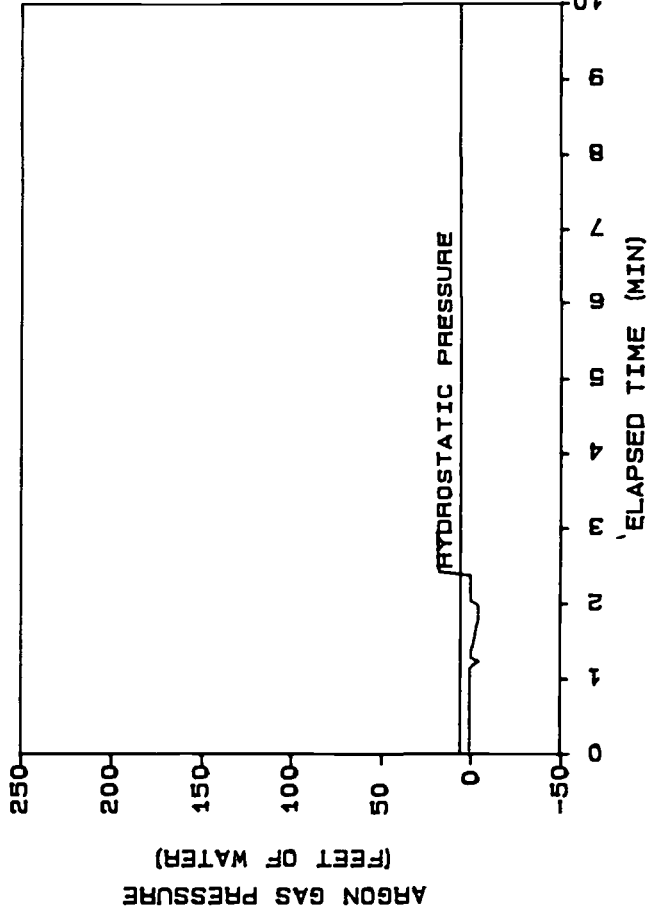
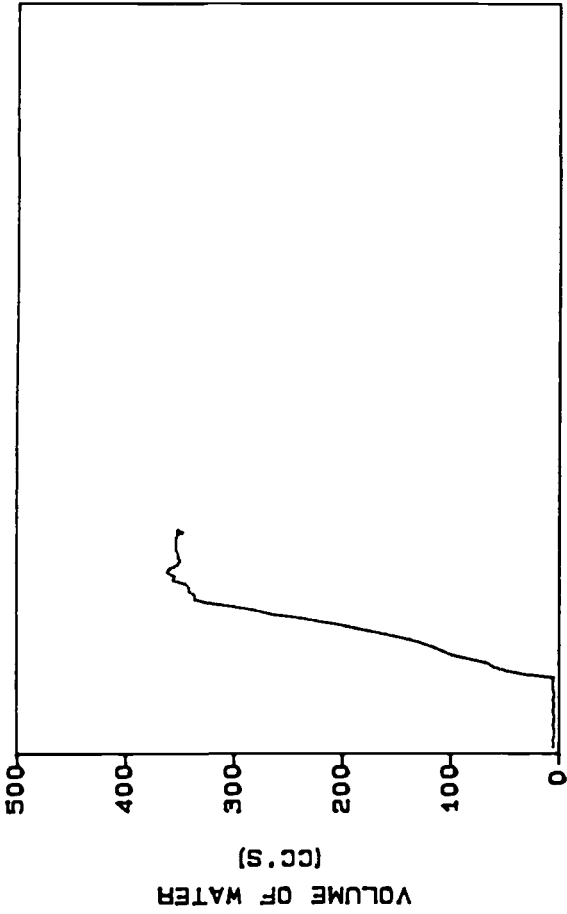
T₀ = .81
T_F = .9



ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC3-40.5
TEST DATE
12/11/91 13:17:52
SAMPLE DEPTH (FT) 40.5
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



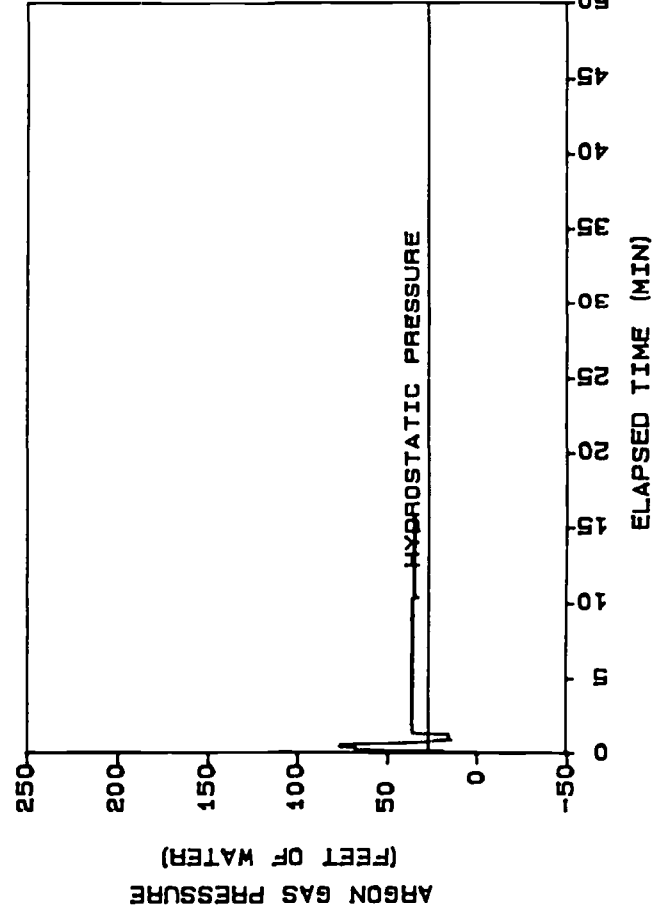
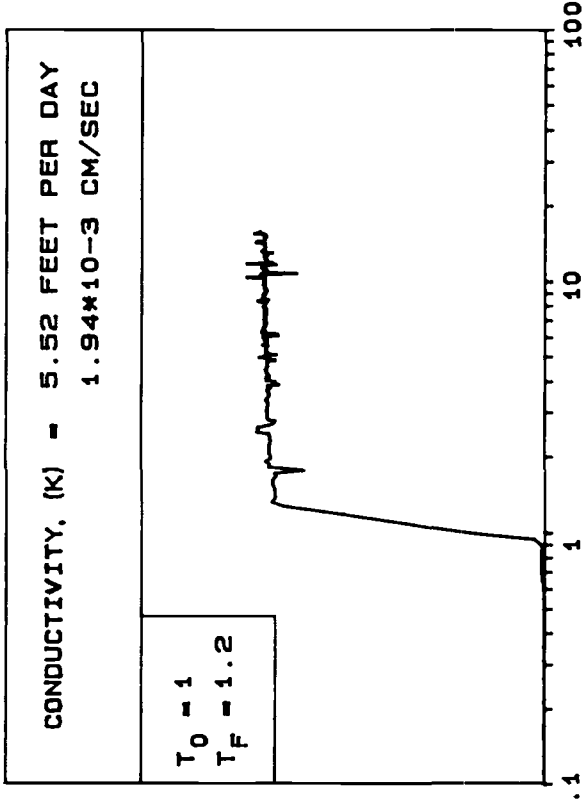
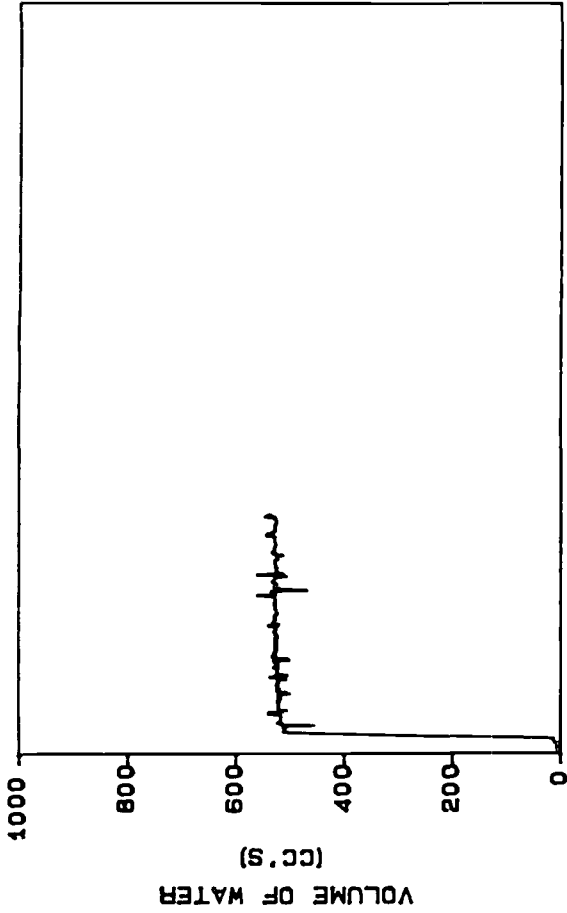
CONDUCTIVITY, (K) = 3.40 FEET PER DAY
1.20*10⁻³ CM/SEC

T₀ = 1
T_F = 1.3

ELAPSED TIME LOG (MIN)

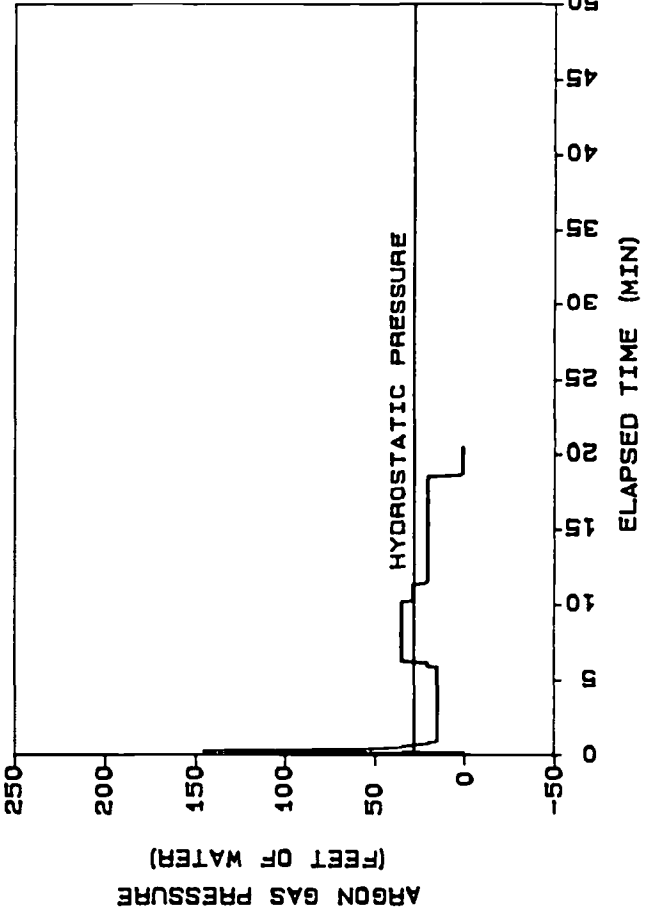
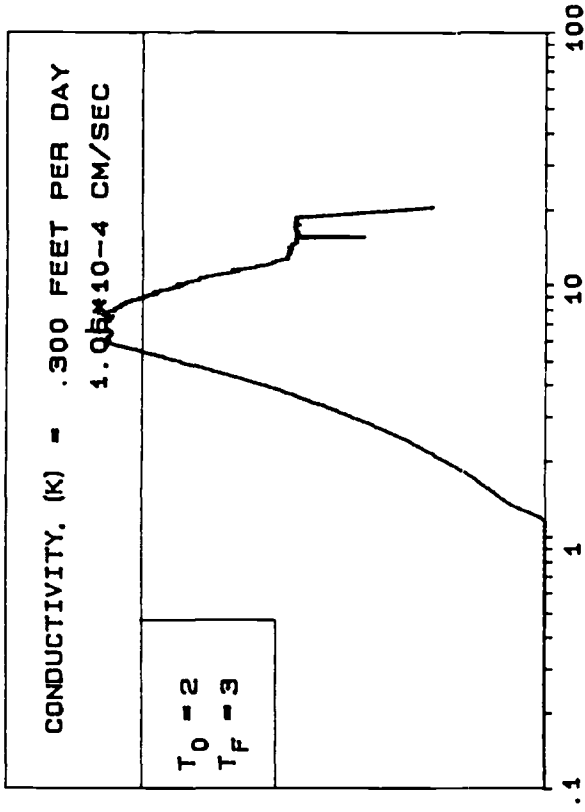
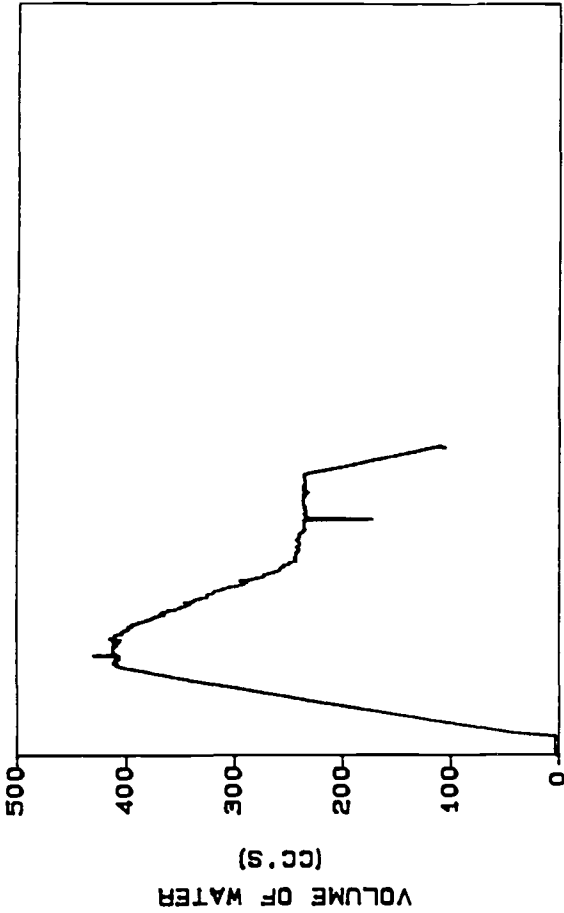
ABC CLEANERS
LOCATION... HC4-19
TEST DATE
12/11/91 15: 11: 45
SAMPLE DEPTH (FT) 19
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



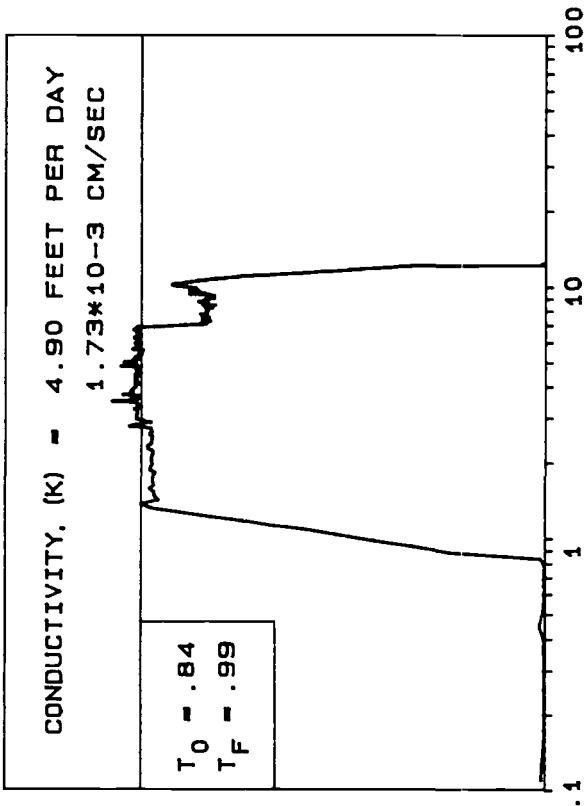
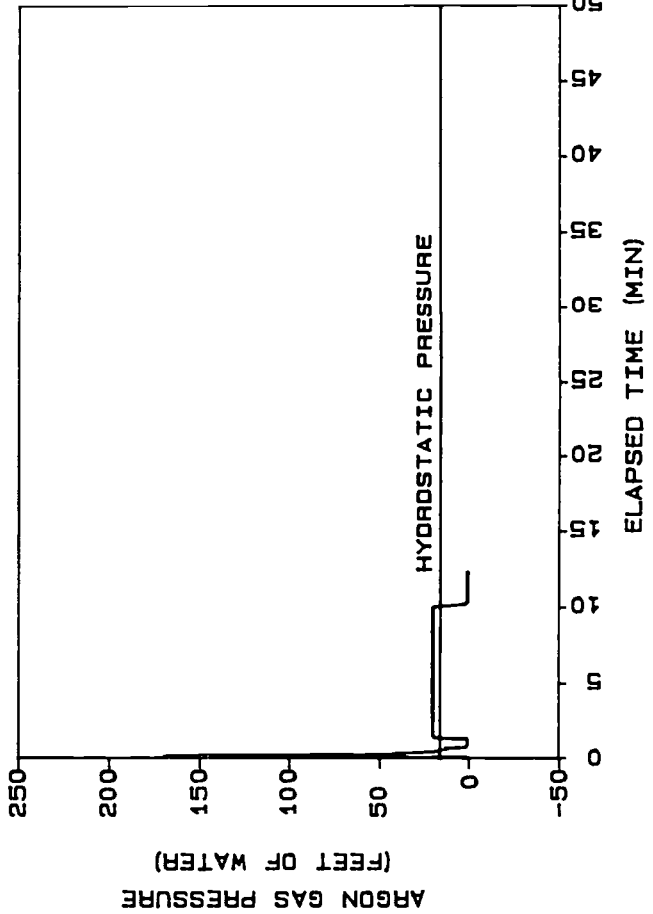
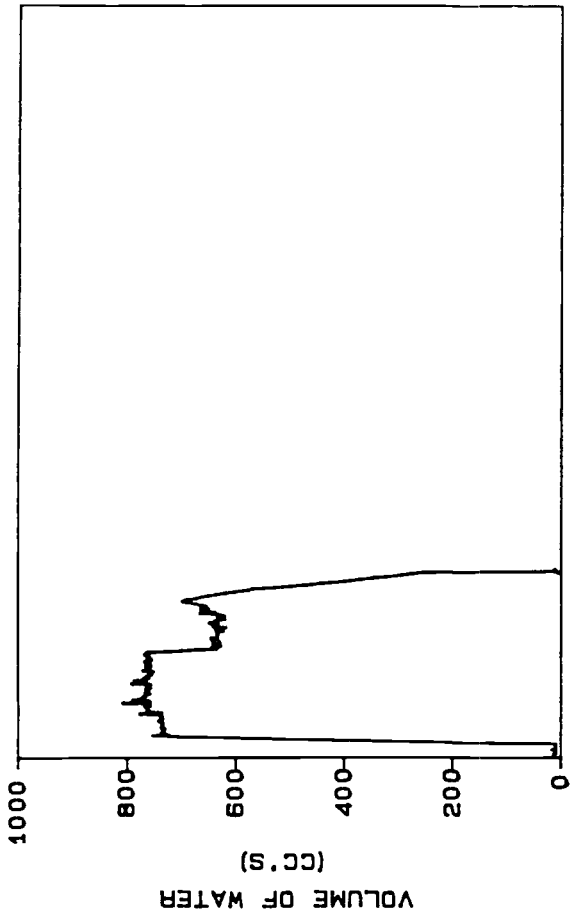
ABC CLEANERS
 LOCATION... HC4-40
 TEST DATE
 12/11/91 14: 14: 38
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



HC5-25
 LOCATION... HC5-42.3
 TEST DATE
 12/11/91 17: 18: 47
 SAMPLE DEPTH (FT) 42.3
 GROUNDWATER DEPTH (FT) 15

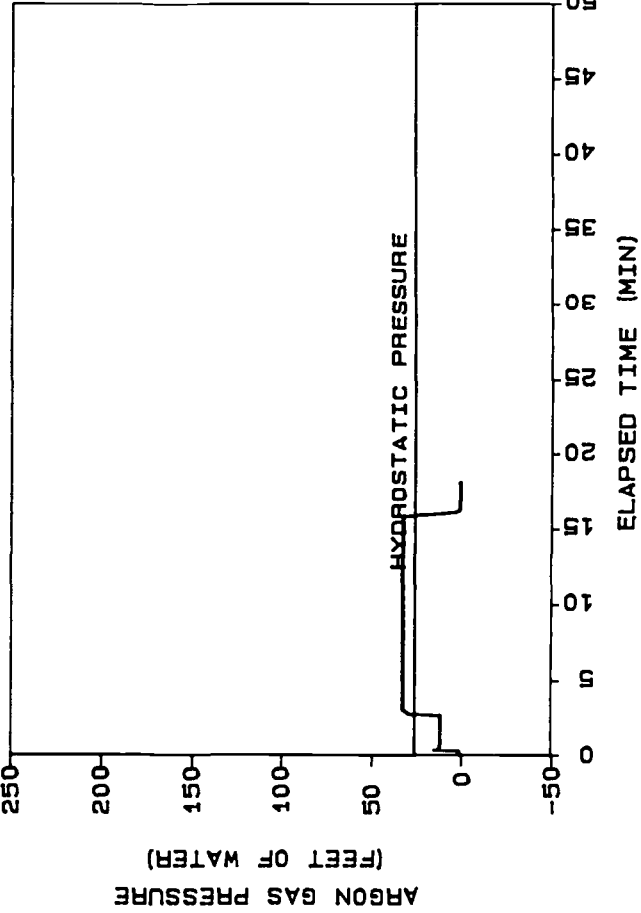
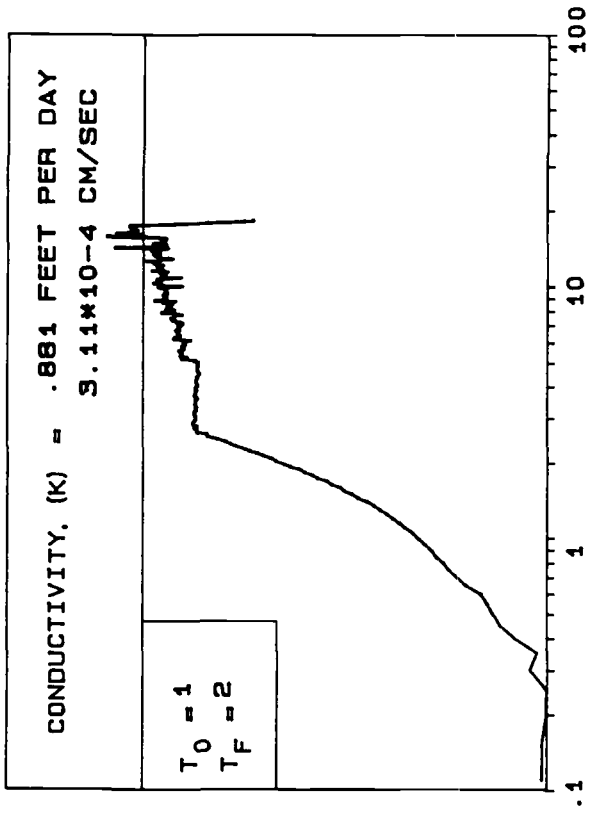
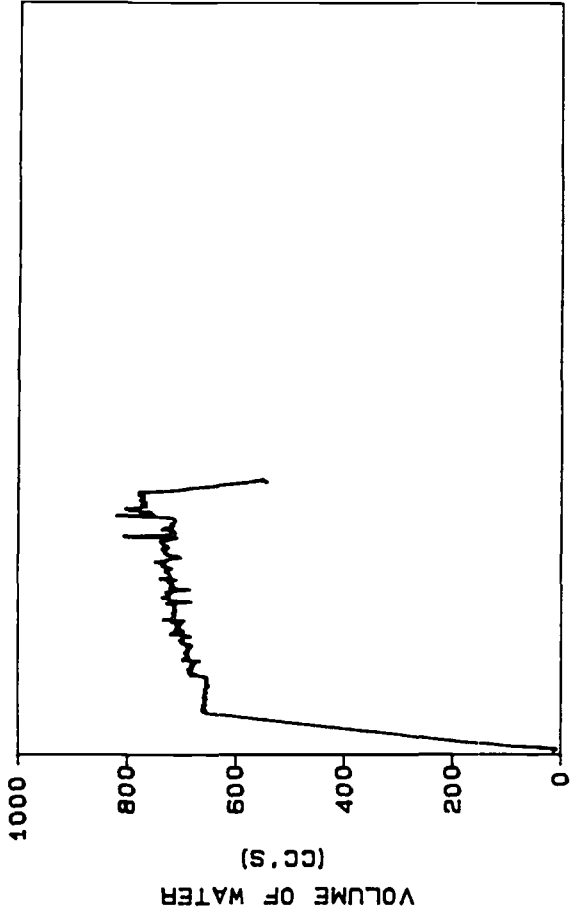
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC6-30
 TEST DATE
 12/14/91 16:05:51
 SAMPLE DEPTH (FT) 30
 GROUNDWATER DEPTH (FT) 15

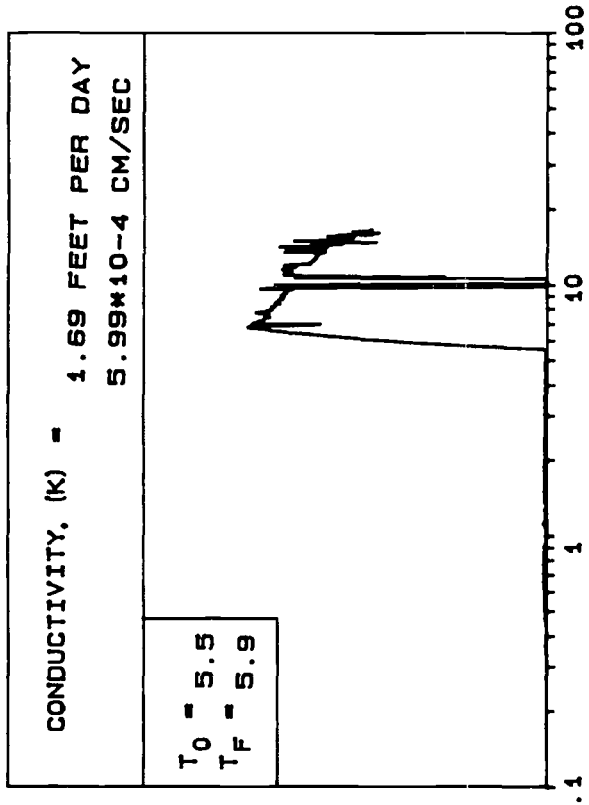
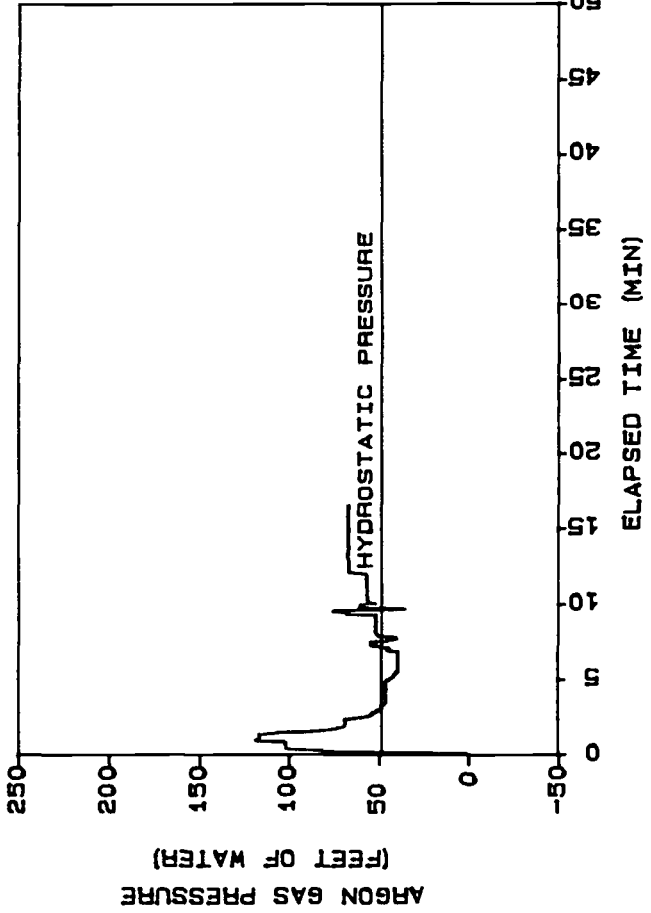
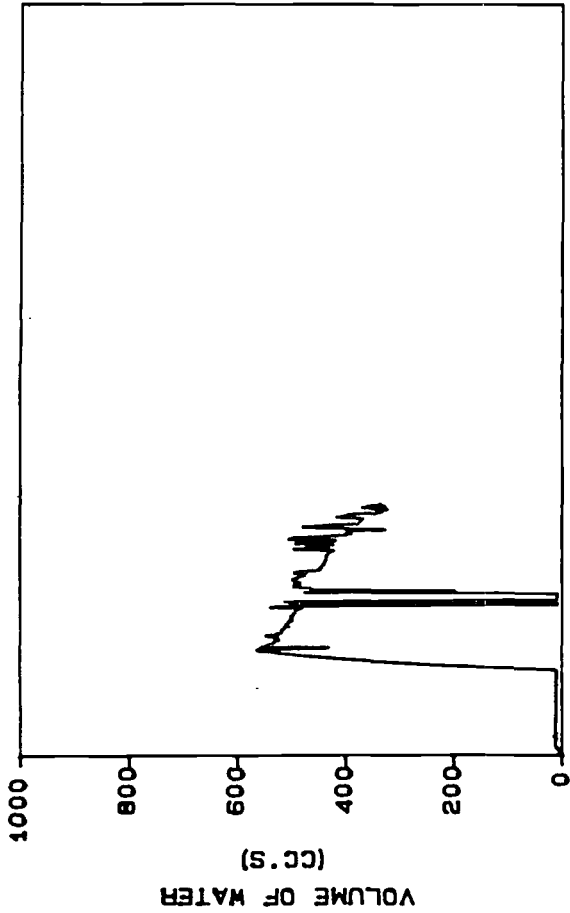
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC6-41
 TEST DATE
 12/14/91 16: 37: 52
 SAMPLE DEPTH (FT) 41
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST

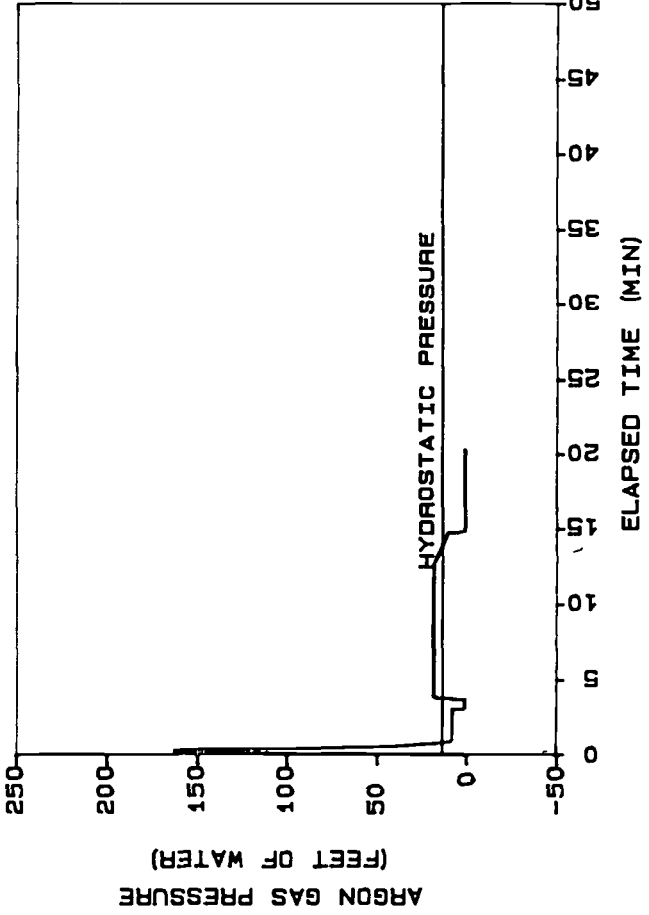
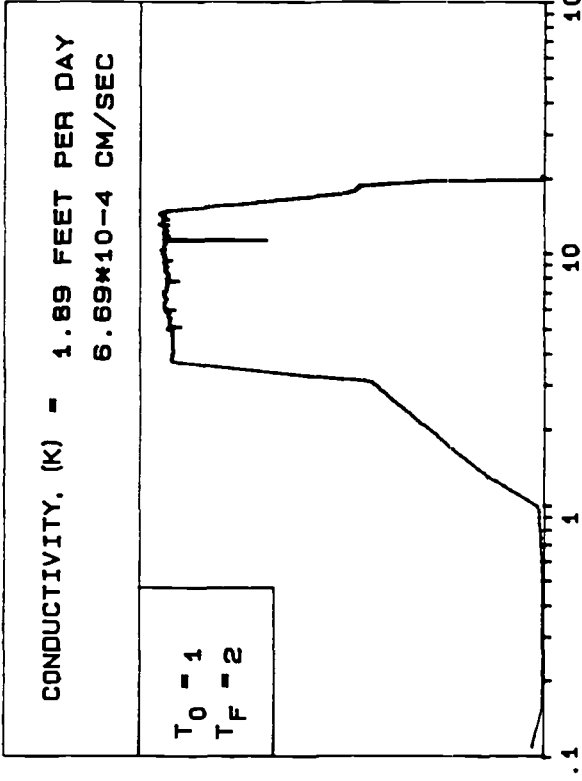
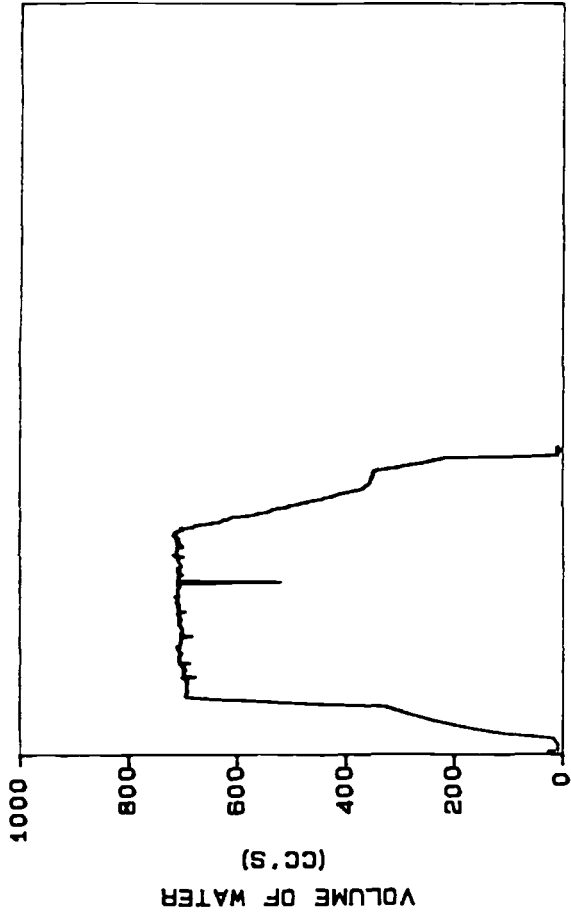


1.69 FEET PER DAY
5.99*10-4 CM/SEC

$T_0 = 5.5$
 $T_F = 5.9$

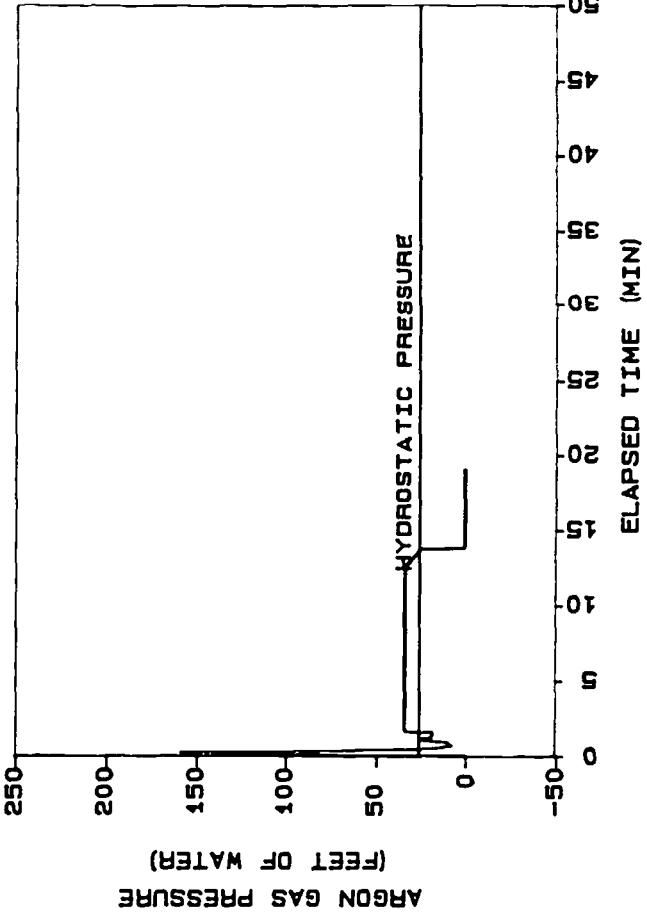
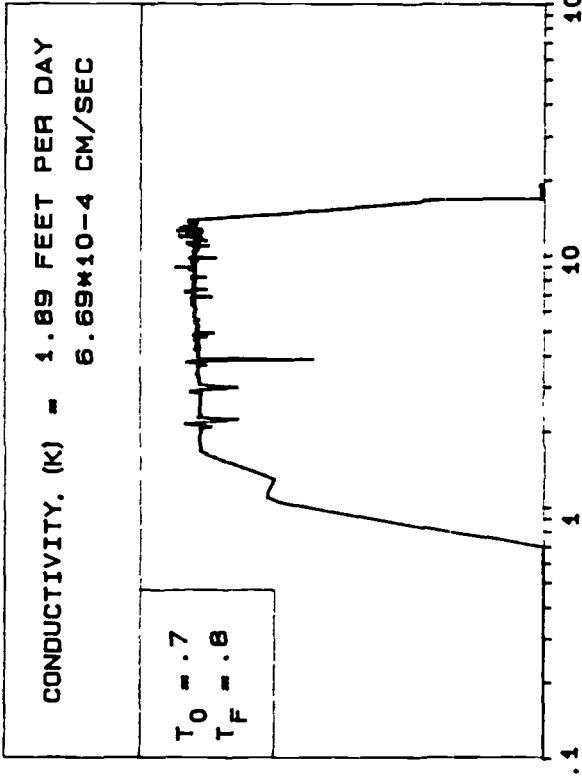
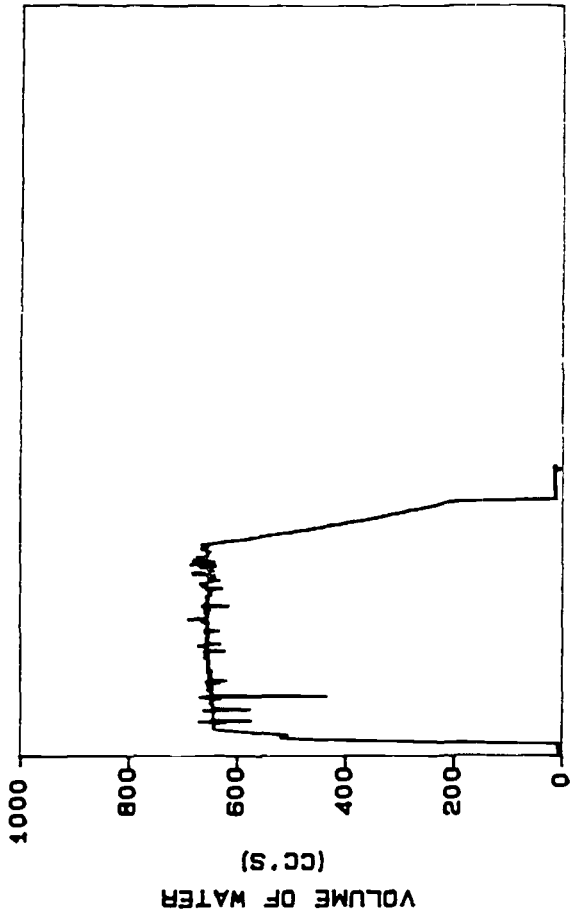
ABC CLEANERS
LOCATION... HC6-64
TEST DATE
12/11/91 18:03:11
SAMPLE DEPTH (FT) 64
GROUNDWATER DEPTH (FT) 16.5

HYDROCONE TEST



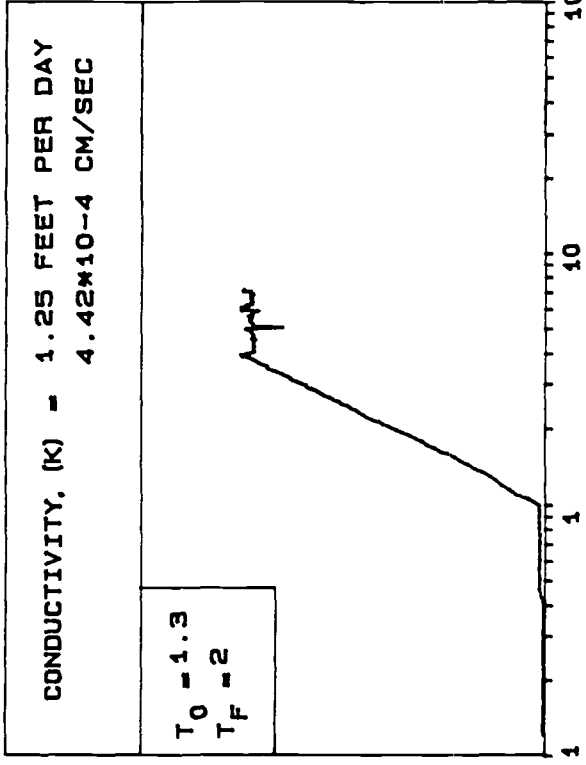
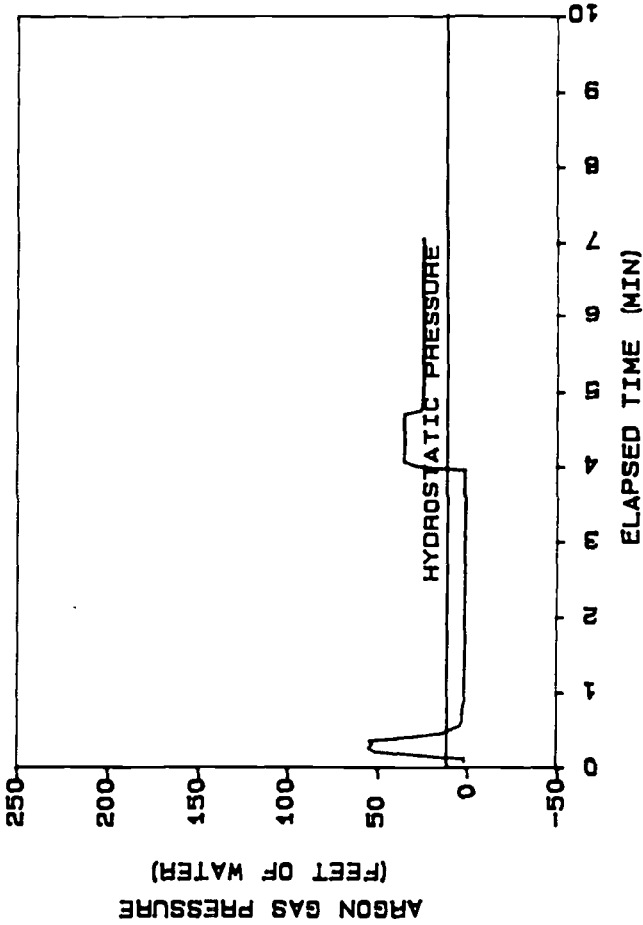
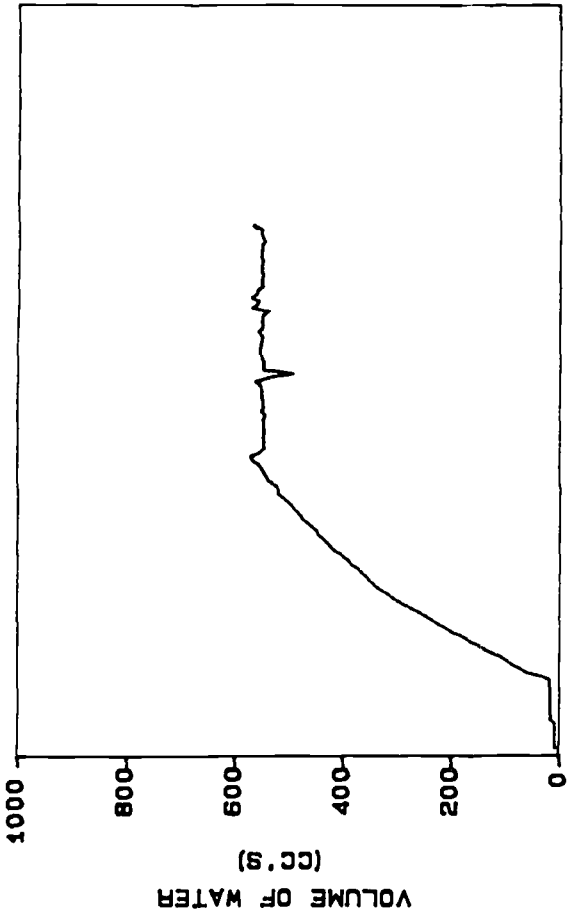
ABC CLEANERS
 LOCATION... HC7-26.5
 TEST DATE
 12/12/91 10:45:18
 SAMPLE DEPTH (FT) 26.5
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC7-39
 TEST DATE
 12/12/91 09:58:09
 SAMPLE DEPTH (FT) 39
 GROUNDWATER DEPTH (FT) 14

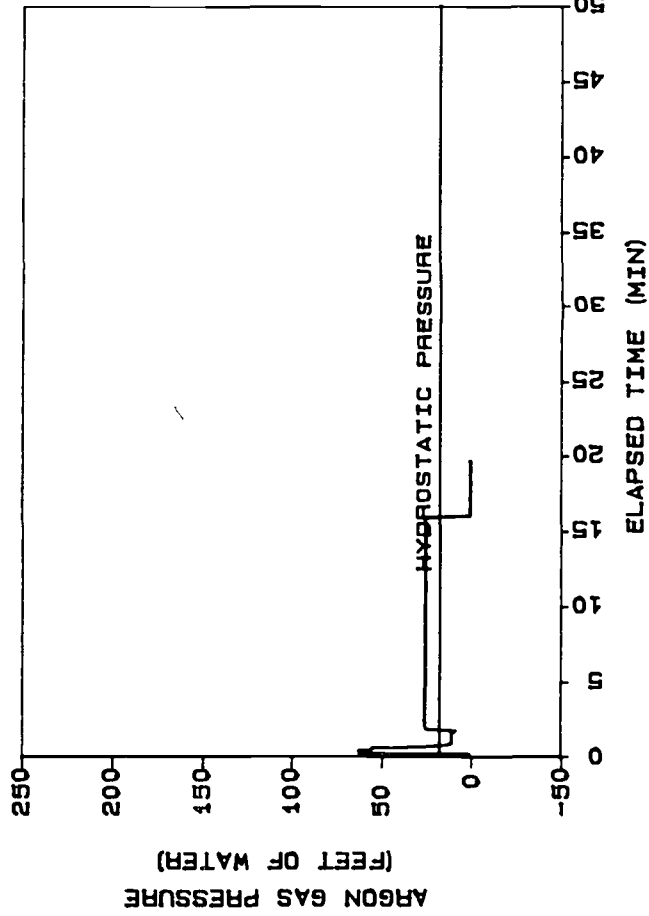
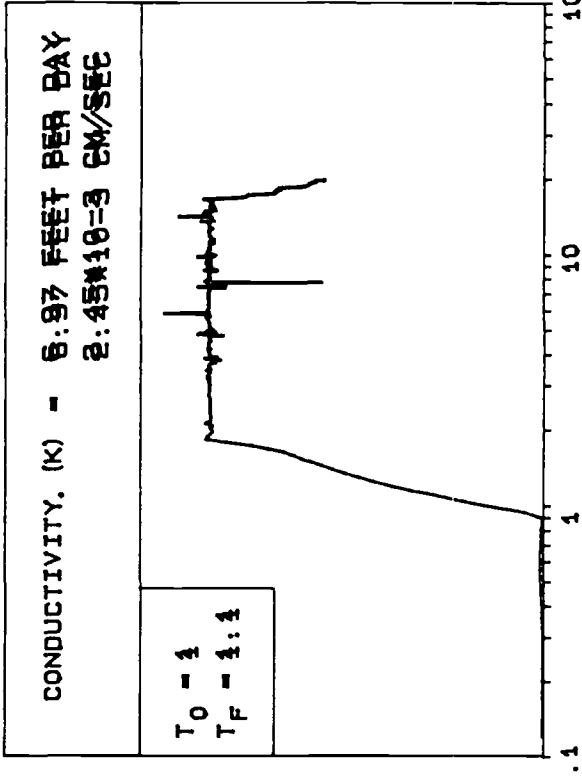
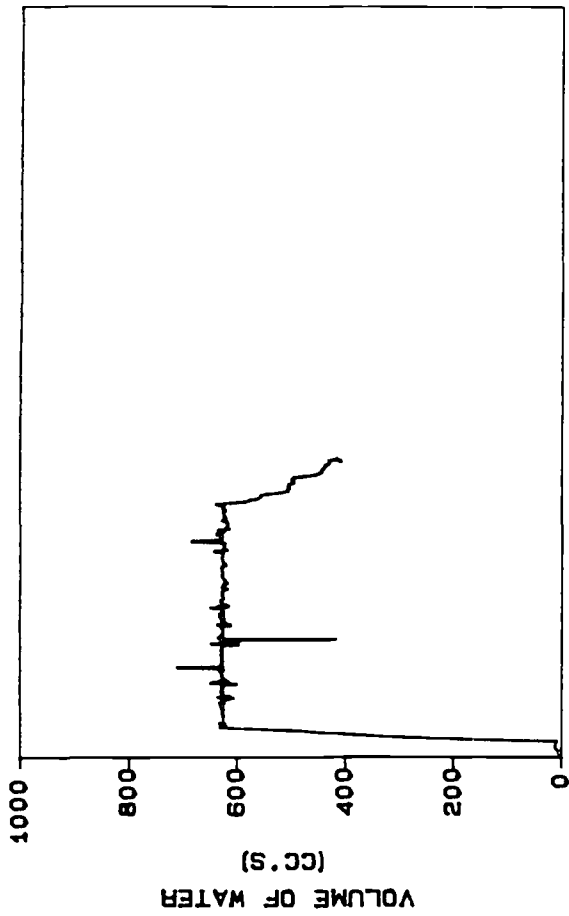
HYDROCONE TEST



$T_0 = 1.3$
 $T_F = 2$

ABC CLEANERS
 LOCATION... HCB-28
 TEST DATE
 12/15/91 12: 09: 53
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 18

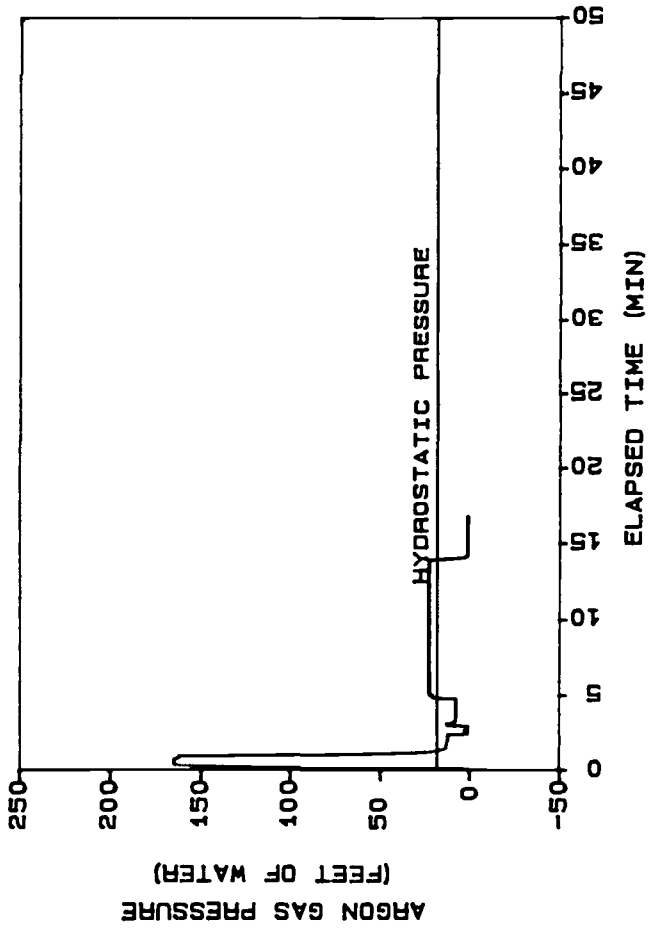
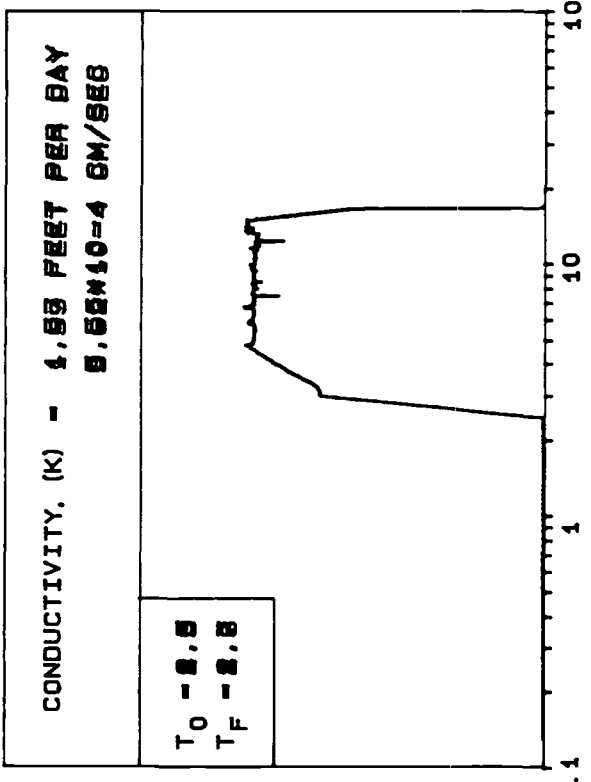
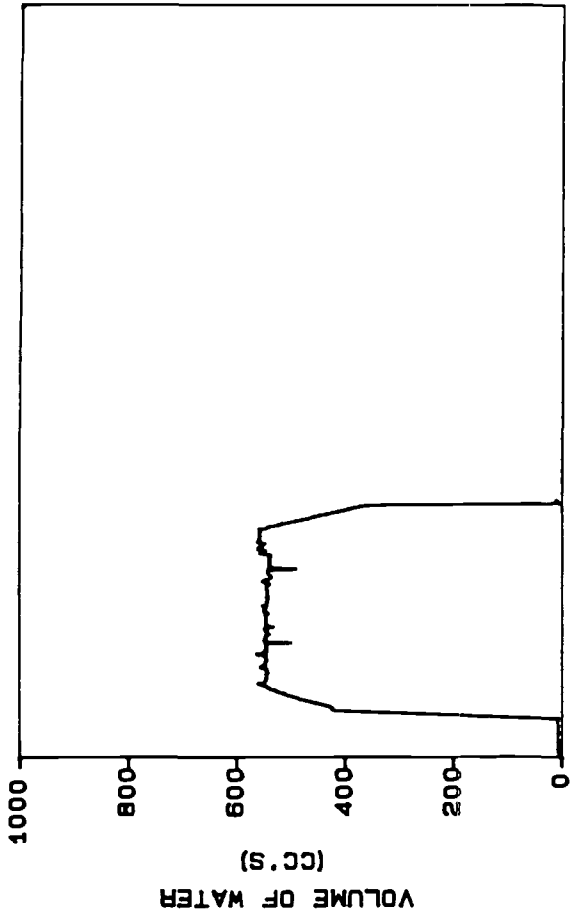
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

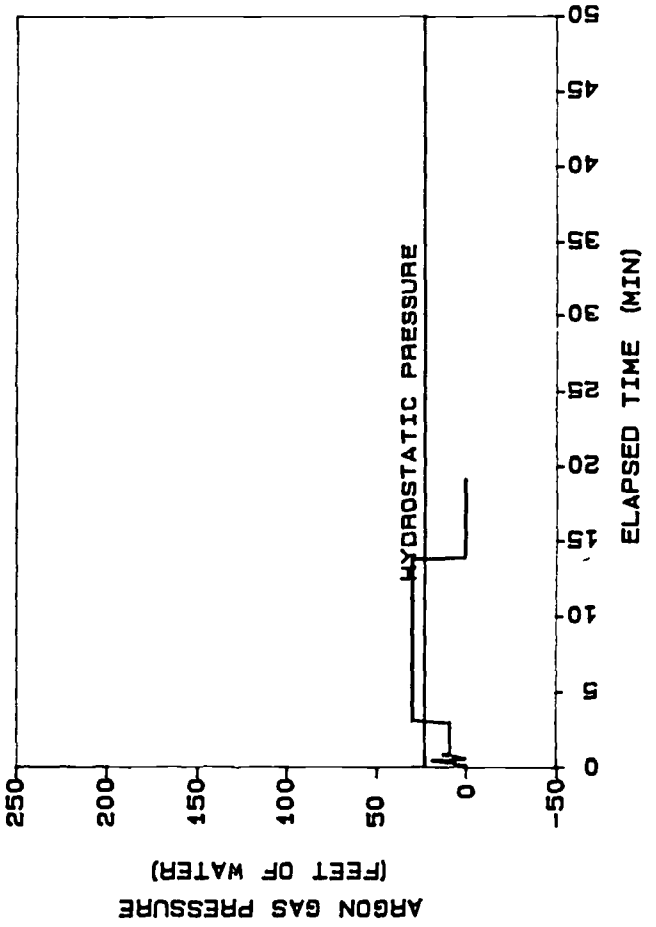
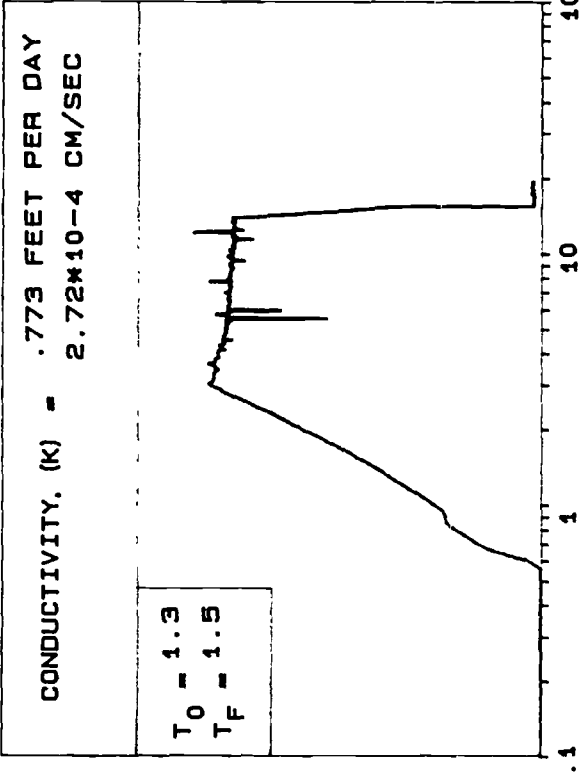
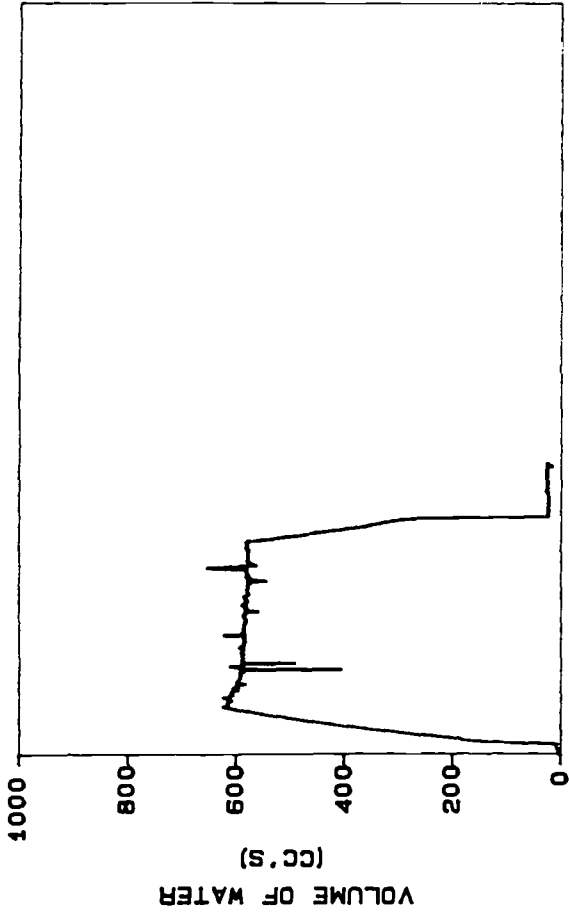
ABC CLEANERS
 LOCATION... HCB-35
 TEST DATE
 12/12/91 10:22:00
 SAMPLE DEPTH (FT) 35
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



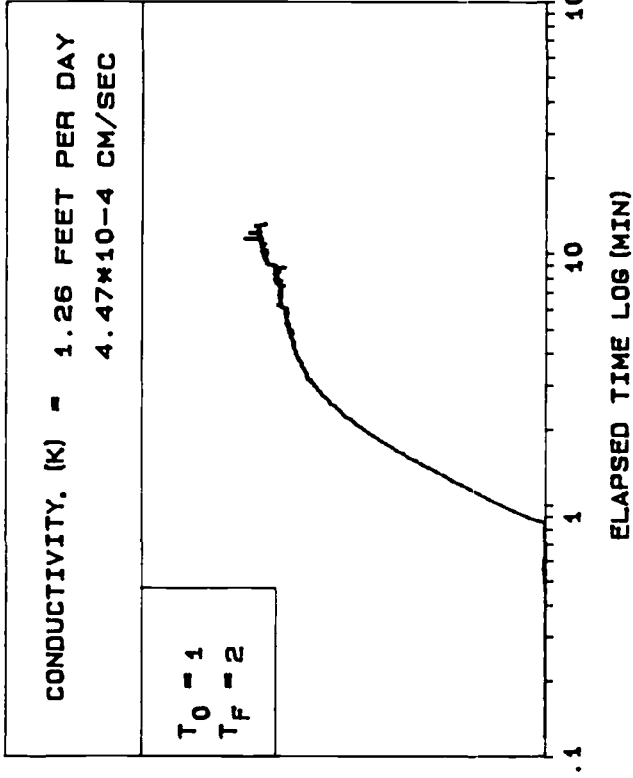
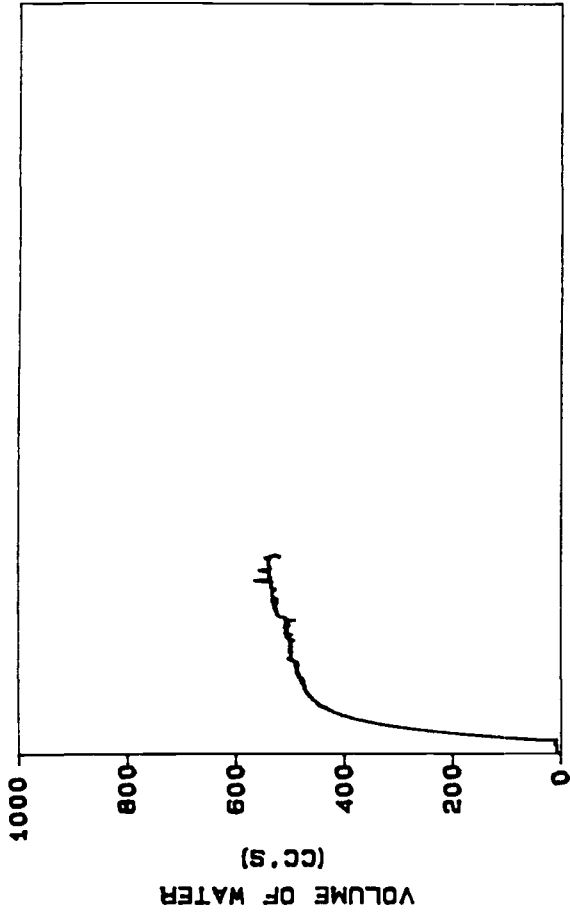
ABC CLEANERS
 LOCATION... HC9-31
 TEST DATE
 12/12/91 13:31:33
 SAMPLE DEPTH (FT) 31
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



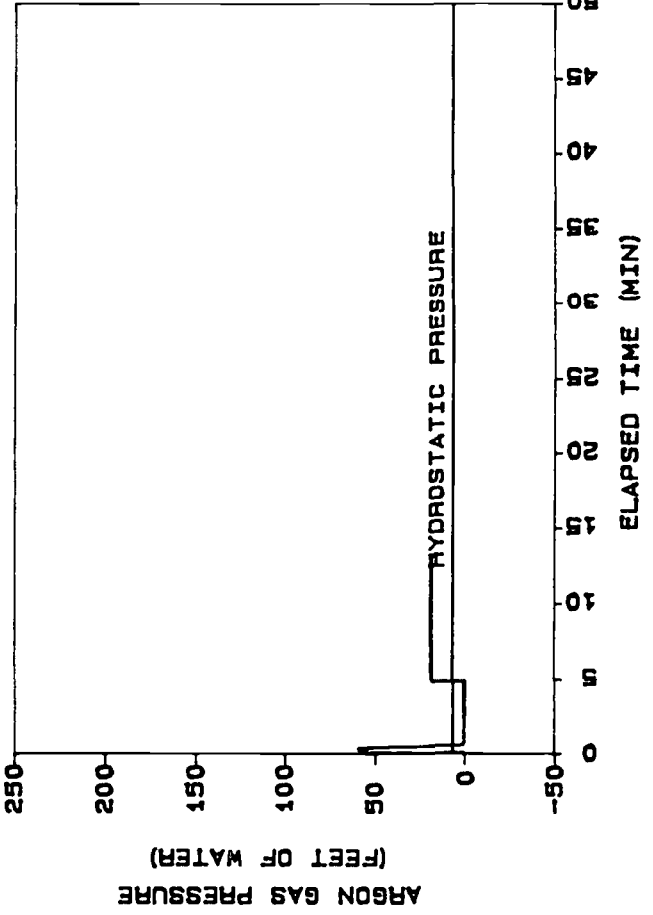
ABC CLEANERS
 LOCATION... HC9-36.5
 TEST DATE
 12/12/91 15: 25: 39
 SAMPLE DEPTH (FT) 36.5
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



CONDUCTIVITY. (K) = 1.26 FEET PER DAY
4.47*10-4 CM/SEC

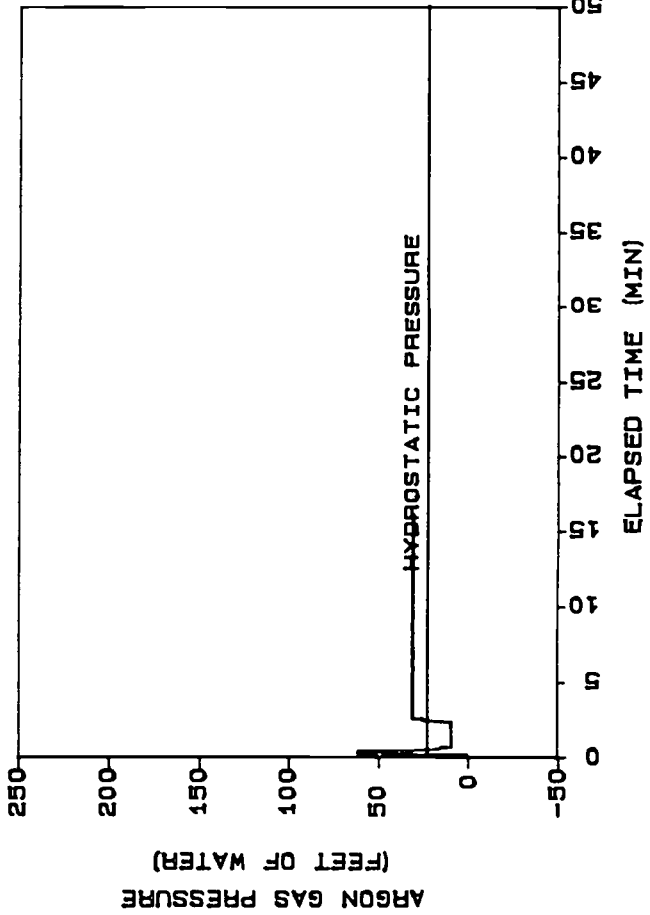
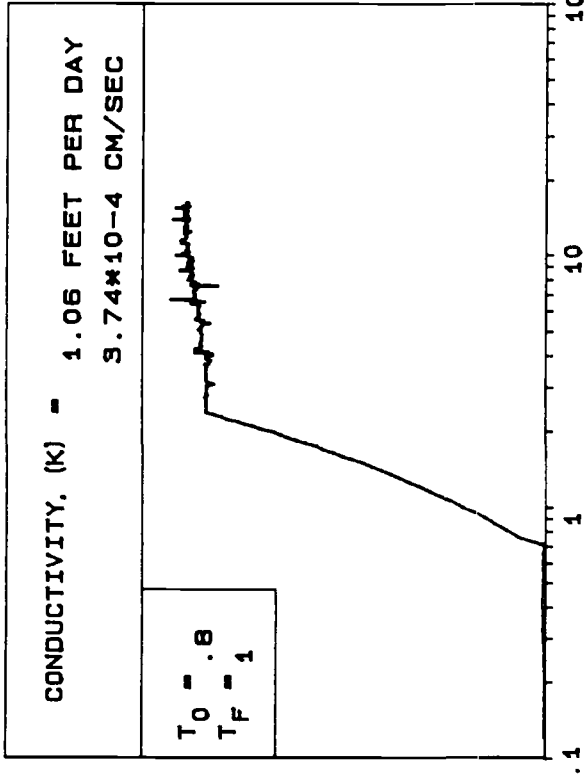
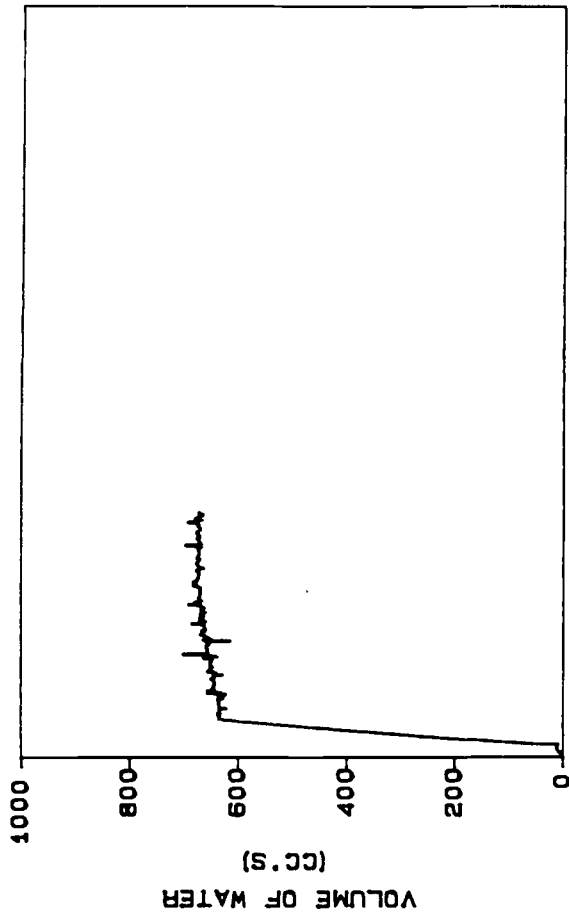
T₀ = 1
T_F = 2



HYDROSTATIC PRESSURE

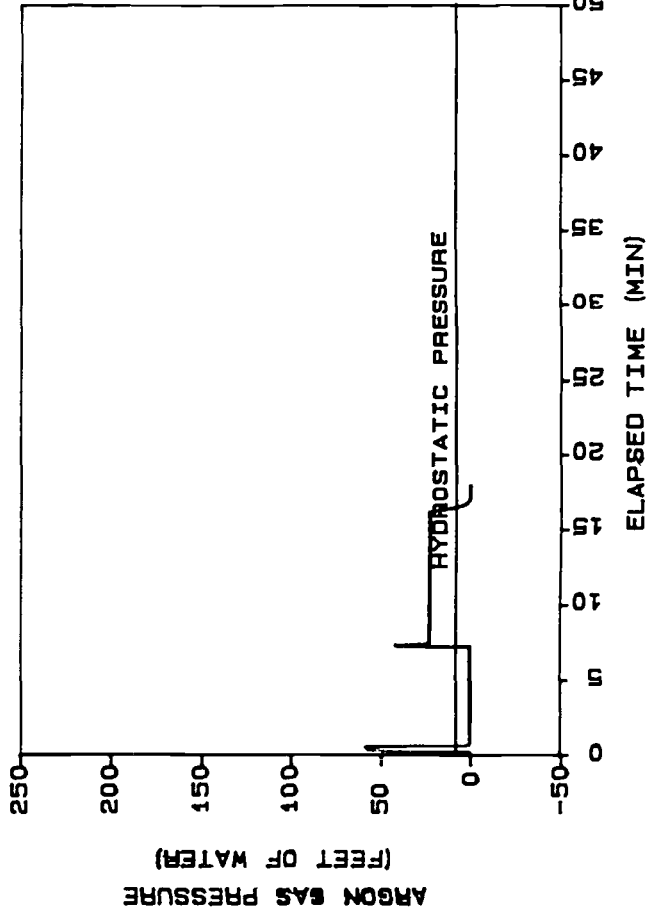
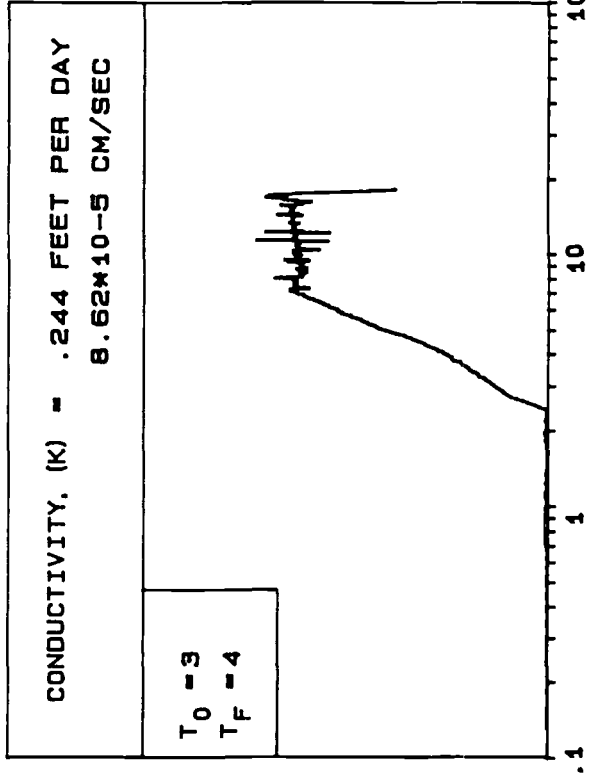
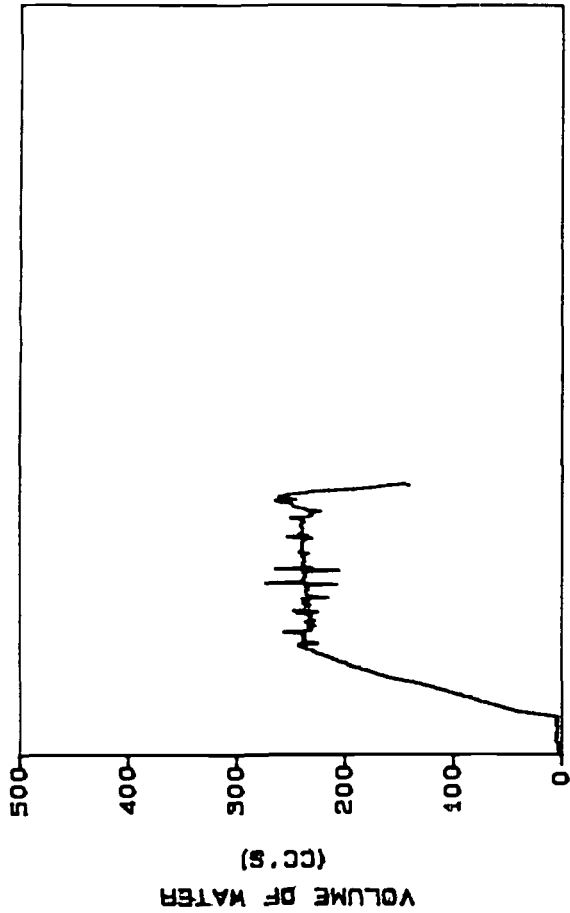
ABC CLEANERS
LOCATION... HC10-24
TEST DATE
12/13/91 10:10:24
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 18

HYDROPHONE TEST



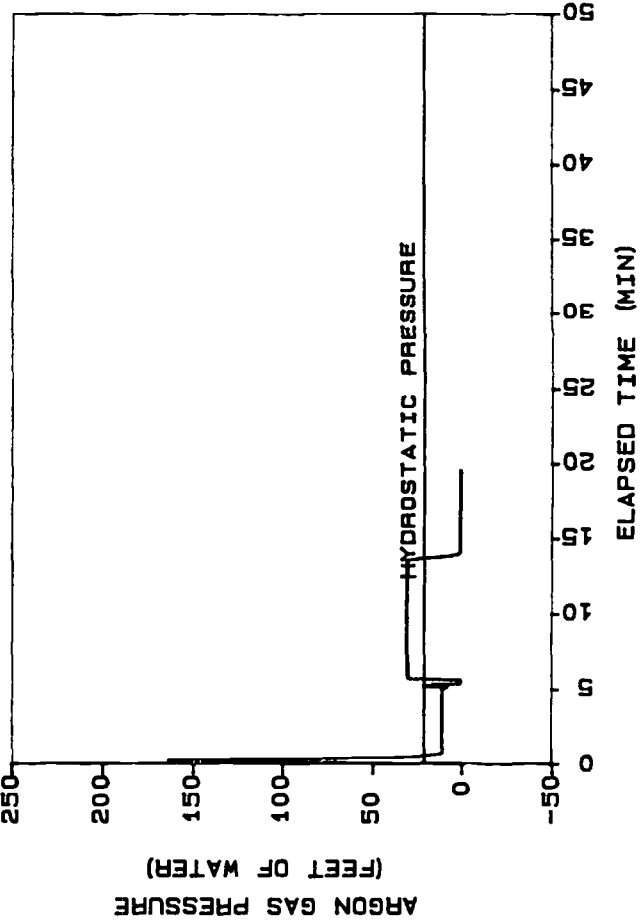
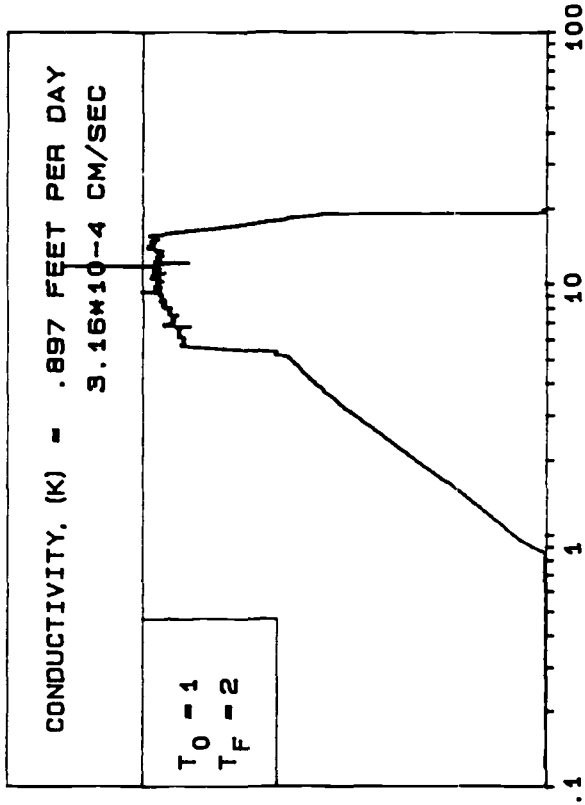
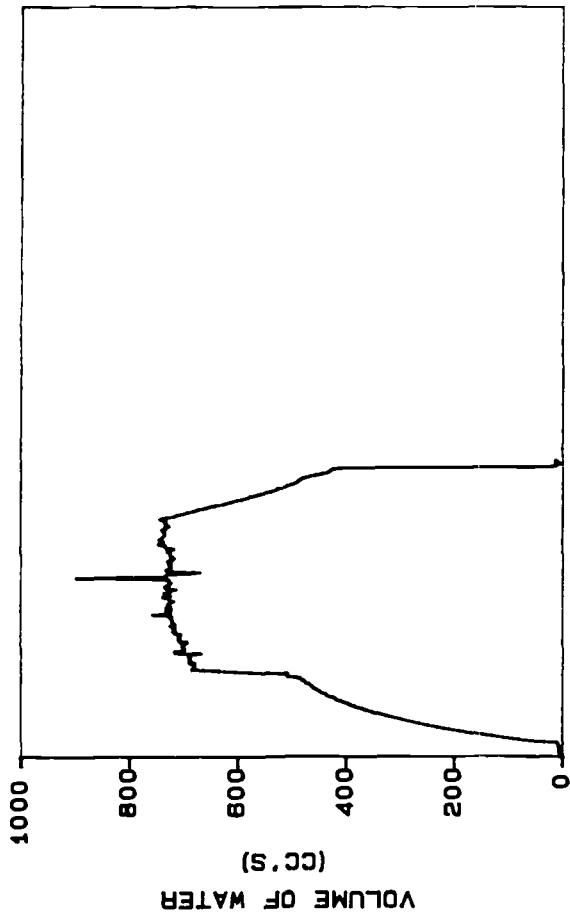
ABC CLEANERS
 LOCATION... HC10-40
 TEST DATE
 12/12/91 14: 43: 40
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC11-24
 TEST DATE
 12/15/91 15:12:59
 SAMPLE DEPTH (FT) 24
 GROUNDWATER DEPTH (FT) 16.5

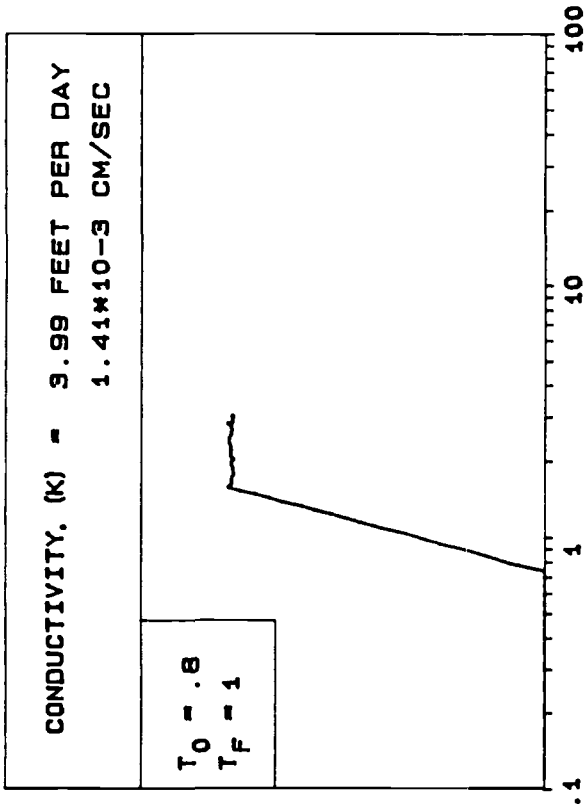
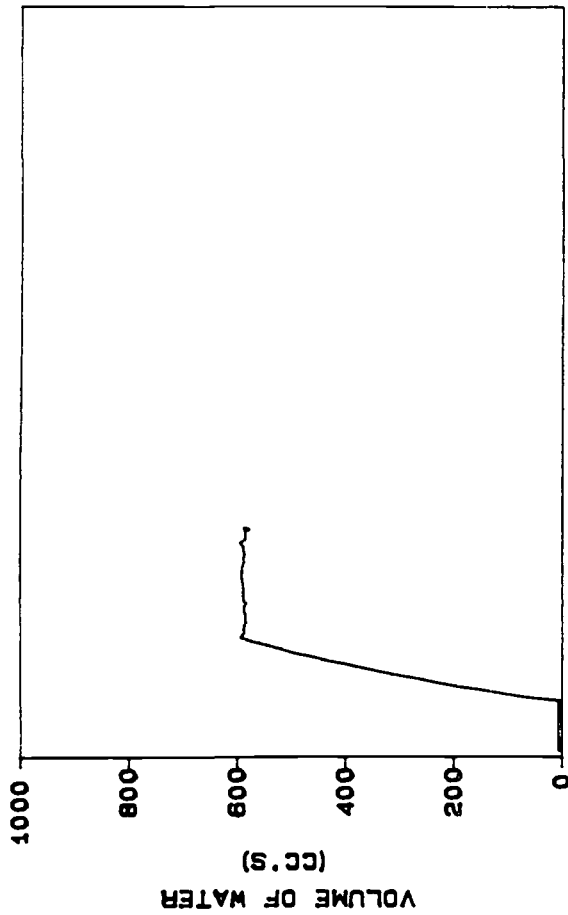
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC11-34
 TEST DATE
 12/12/91 17:05:57
 SAMPLE DEPTH (FT) 34
 GROUNDWATER DEPTH (FT) 14

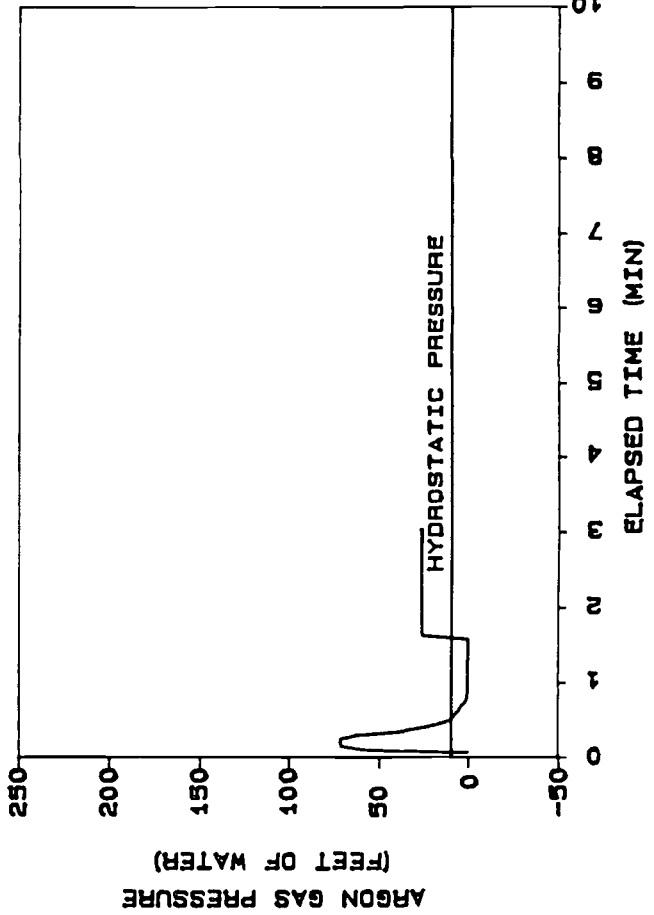
HYDROCONE TEST



CONDUCTIVITY, (K) = 3.99 FEET PER DAY
1.41*10⁻³ CM/SEC

T₀ = .8
T_F = 1

ELAPSED TIME LOG (MIN)

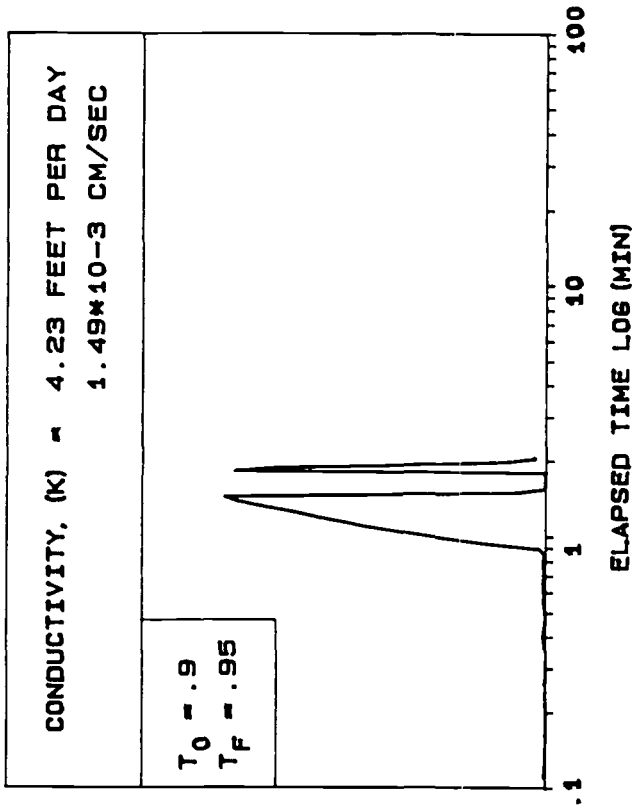
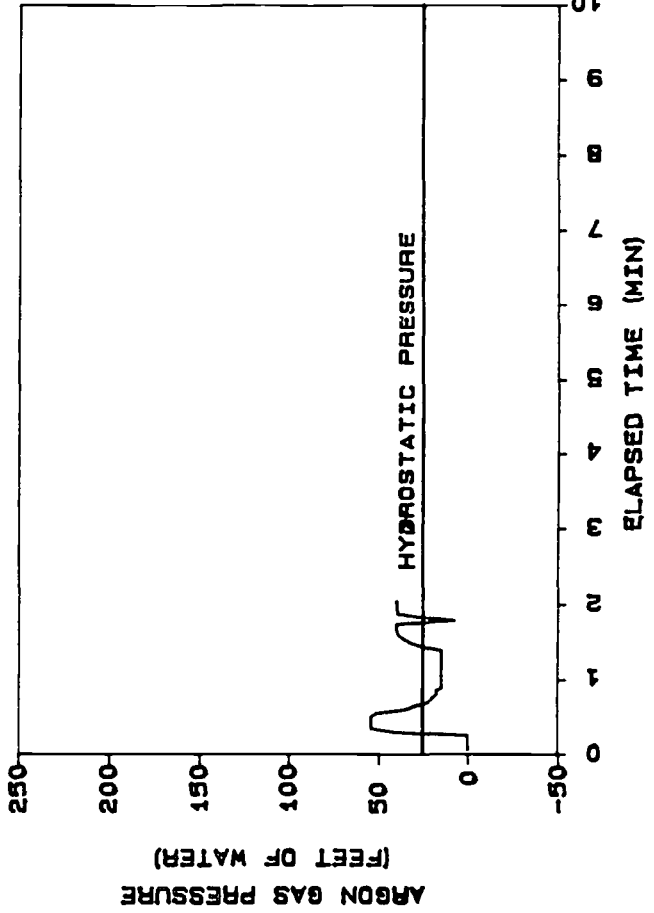
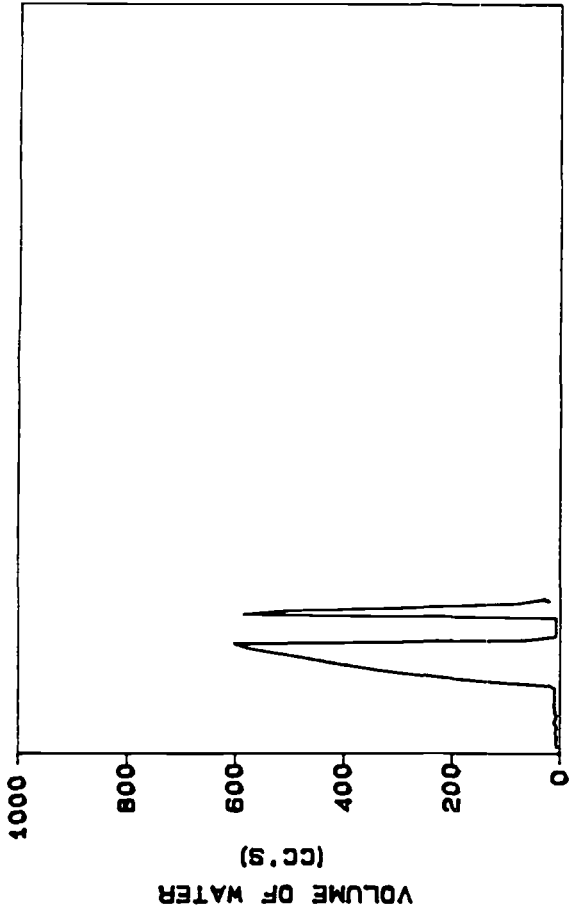


HYDROSTATIC PRESSURE

ELAPSED TIME (MIN)

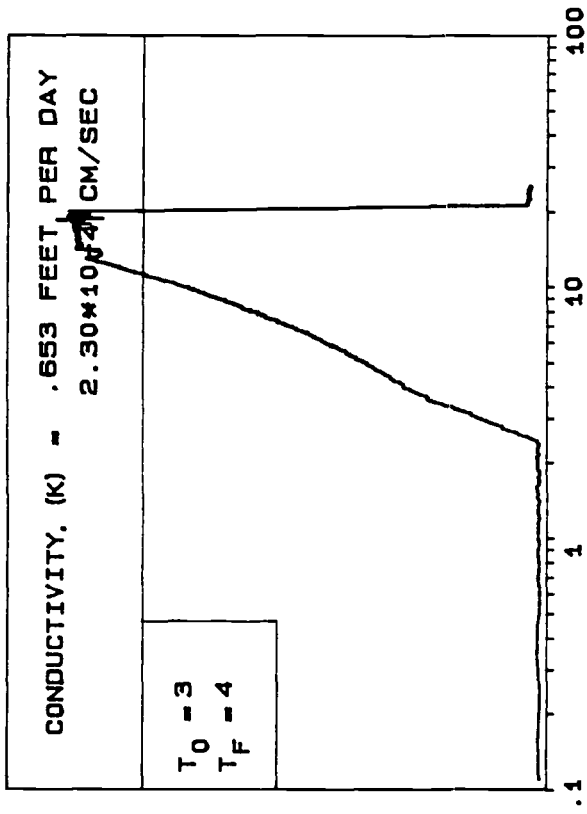
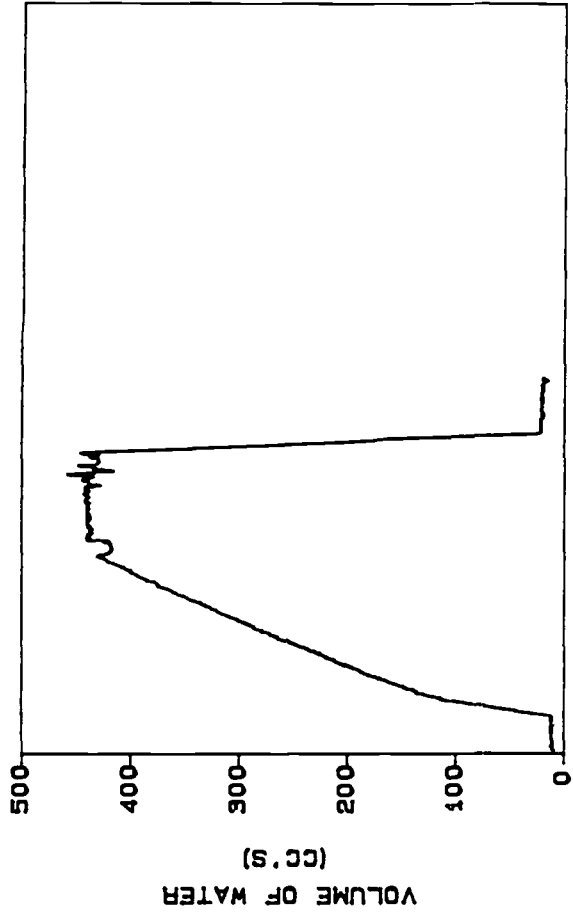
ABC CLEANERS
LOCATION... HC12-24
TEST DATE
12/12/91 17:33:32
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



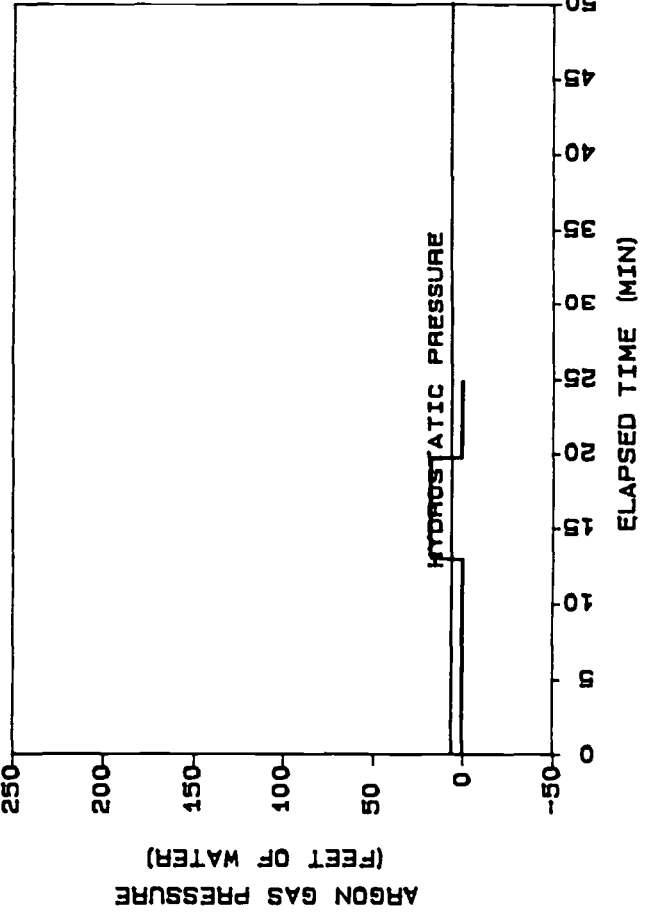
ABC CLEANERS
 LOCATION... HC12-40
 TEST DATE
 12/12/91 16:58:20
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



T₀ = 3
T_F = 4

CONDUCTIVITY, (K) = .653 FEET PER DAY
2.30*10⁻⁴ CM/SEC

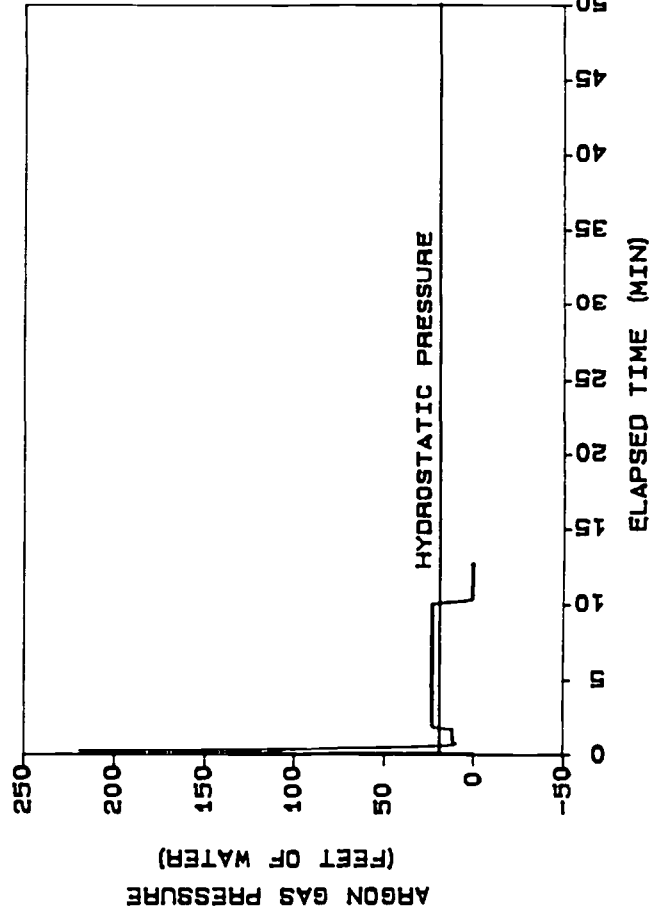
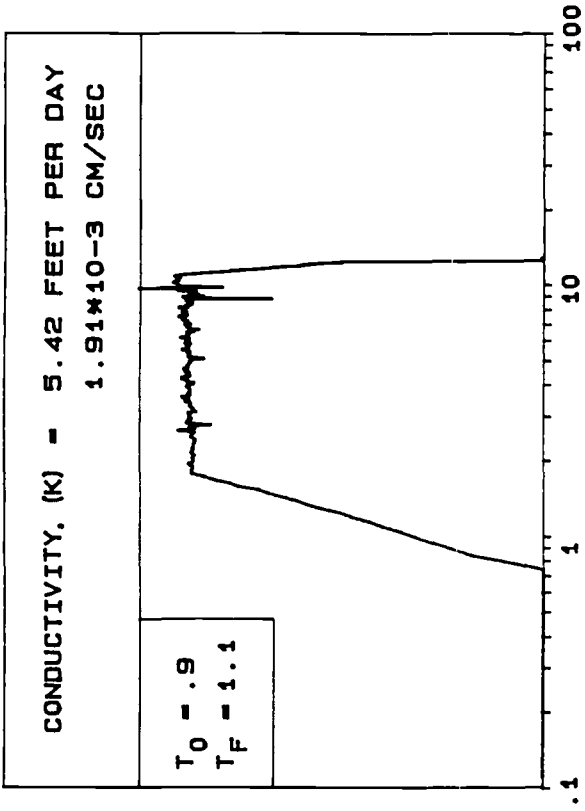
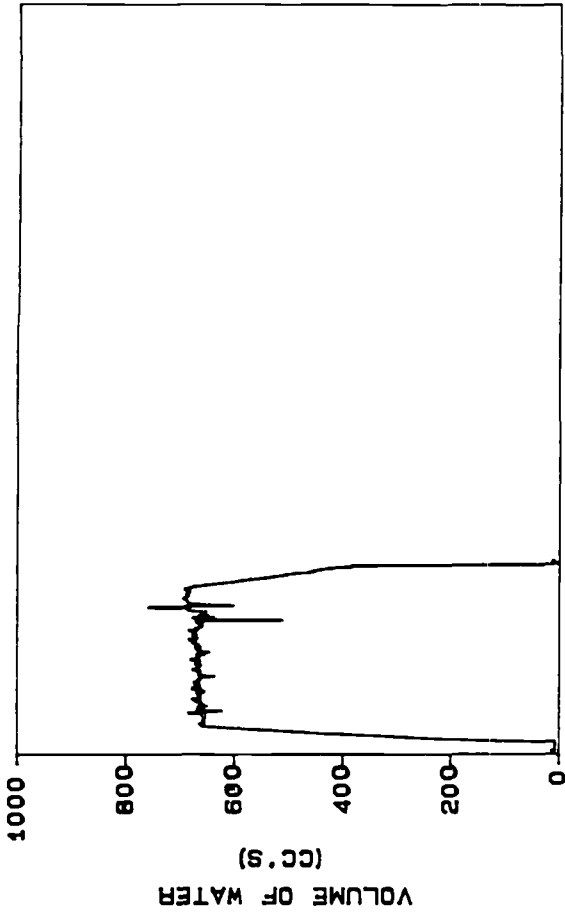


HYDROSTATIC PRESSURE

ELAPSED TIME LOG (MIN)

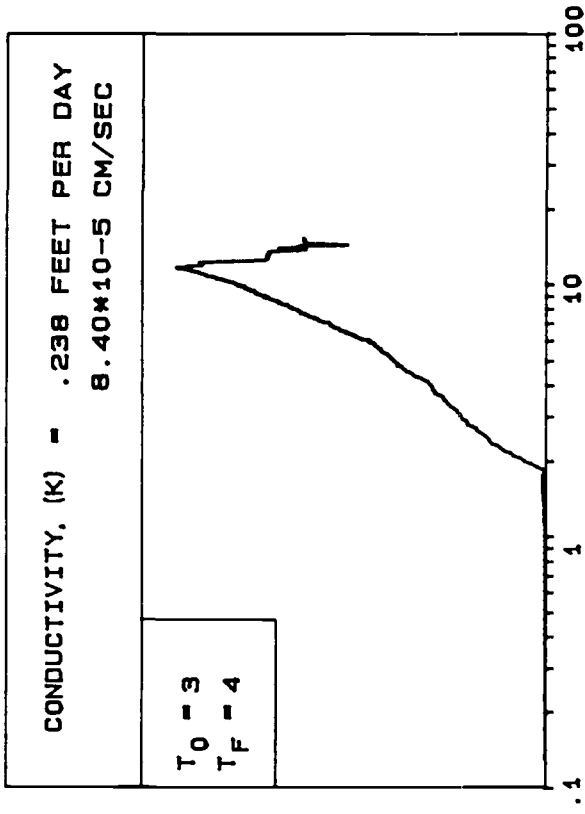
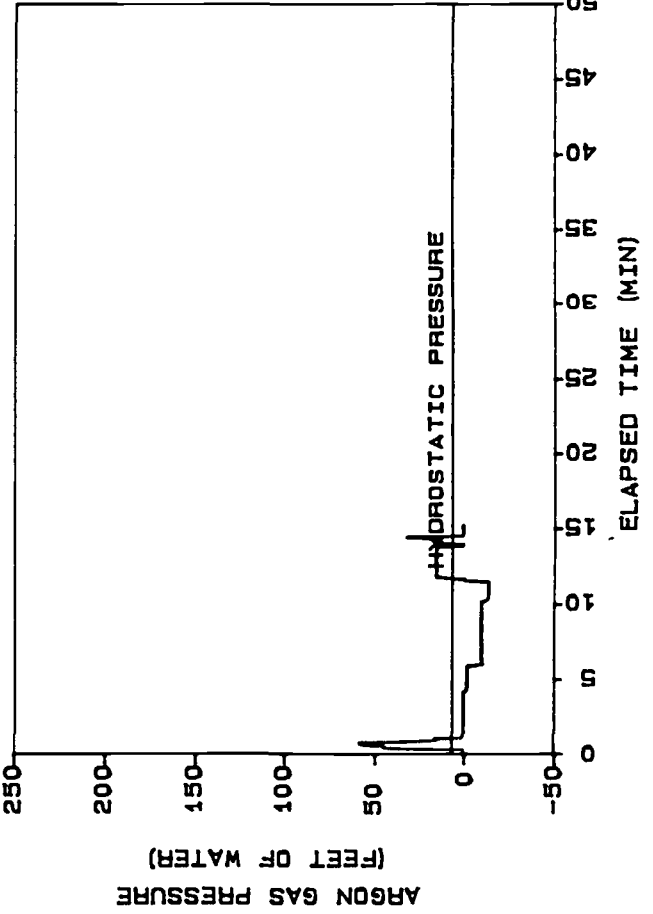
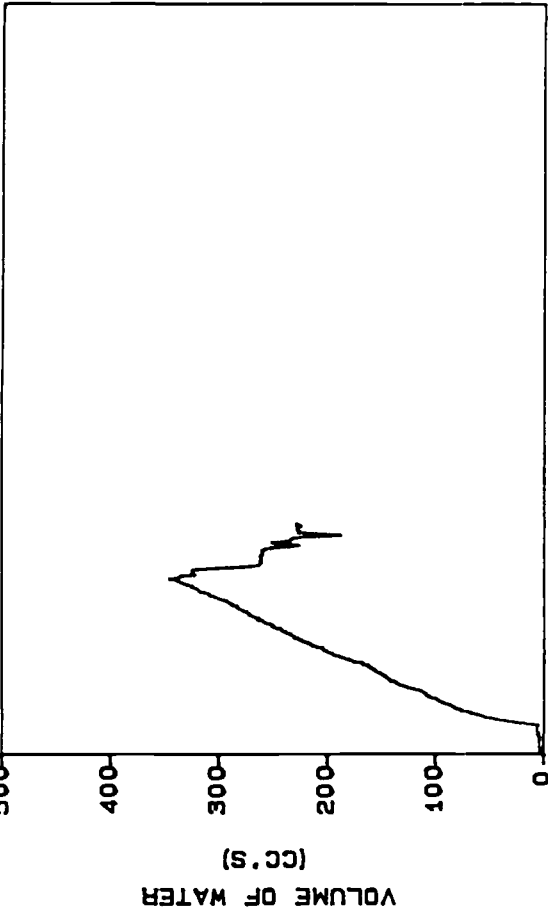
ABC CLEANERS
LOCATION... HC13-19.5
TEST DATE
12/13/91 09:52:11
SAMPLE DEPTH (FT) 19.5
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC13--32
 TEST DATE
 12/13/91 10:31:28
 SAMPLE DEPTH (FT) 32
 GROUNDWATER DEPTH (FT) 14

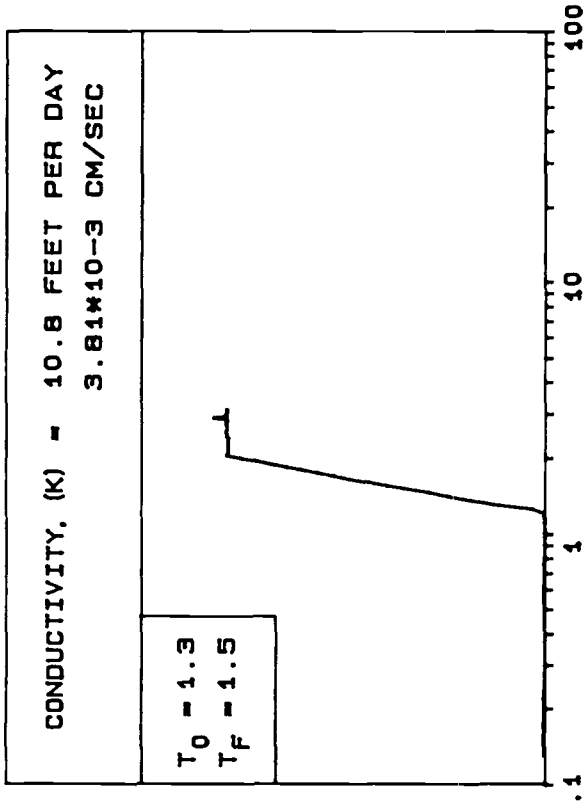
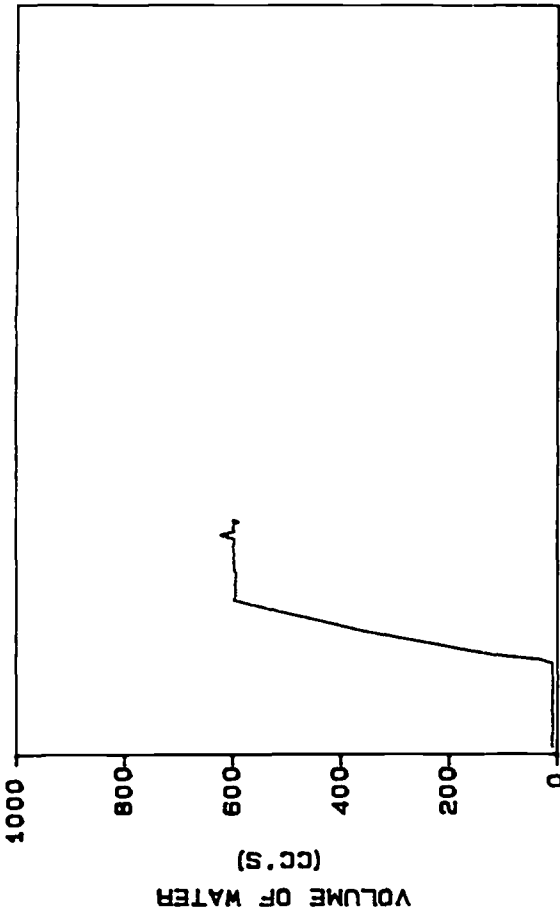
HYDROCOONE TEST



ABC CLEANERS
 LOCATION... HC14-20
 TEST DATE
 12/13/91 13:22:28

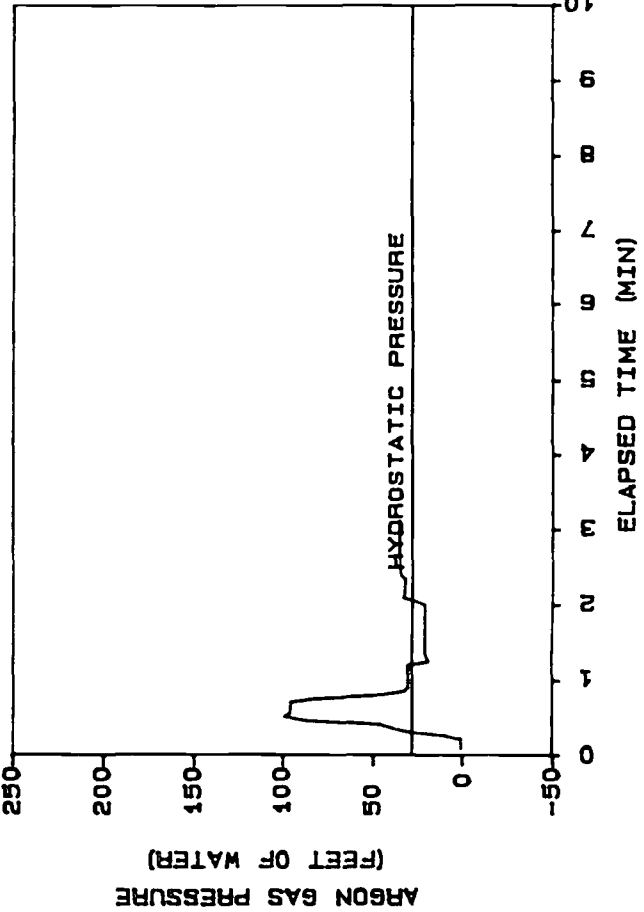
SAMPLE DEPTH (FT) 20
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



CONDUCTIVITY, (K) = 10.8 FEET PER DAY
3.81M10-3 CM/SEC

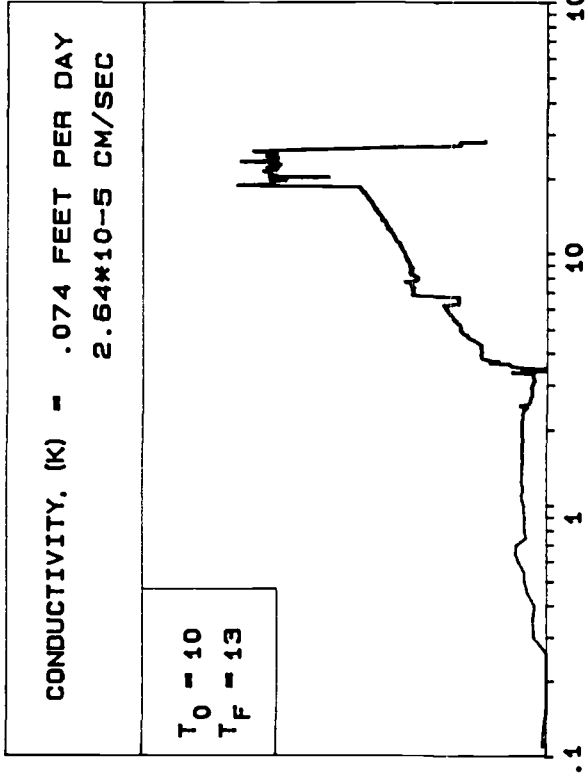
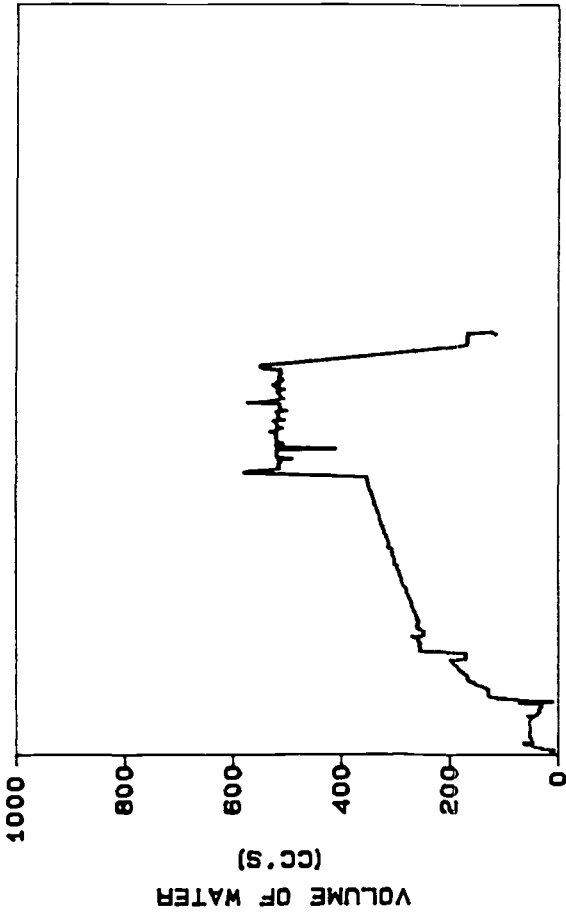
$T_0 = 1.3$
 $T_F = 1.5$



HYDROSTATIC PRESSURE

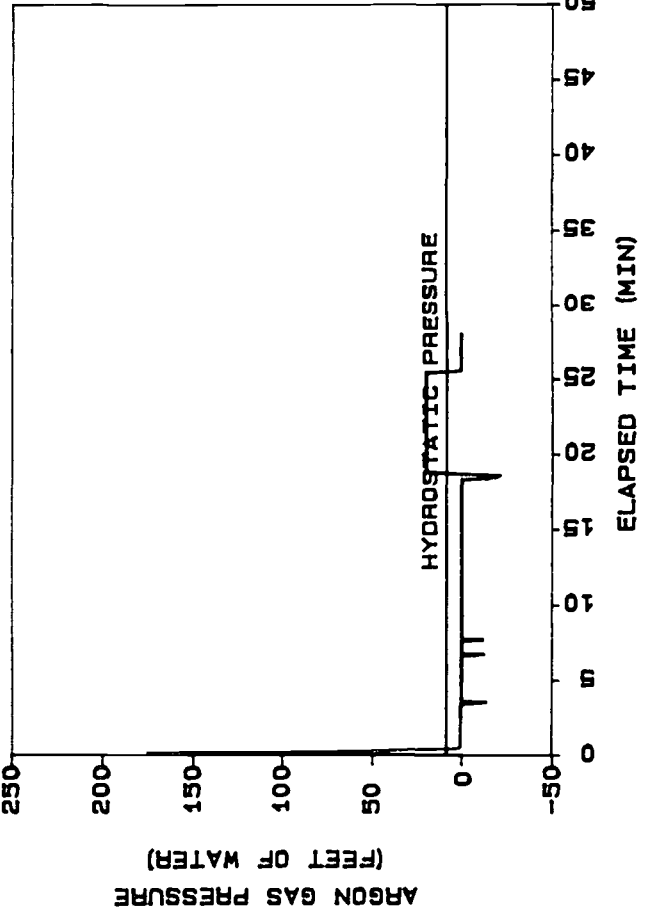
ABC CLEANERS
LOCATION... HC14-41
TEST DATE
12/13/91 14:28:28
SAMPLE DEPTH (FT) 41
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



CONDUCTIVITY, (K) = .074 FEET PER DAY
2.64*10⁻⁵ CM/SEC

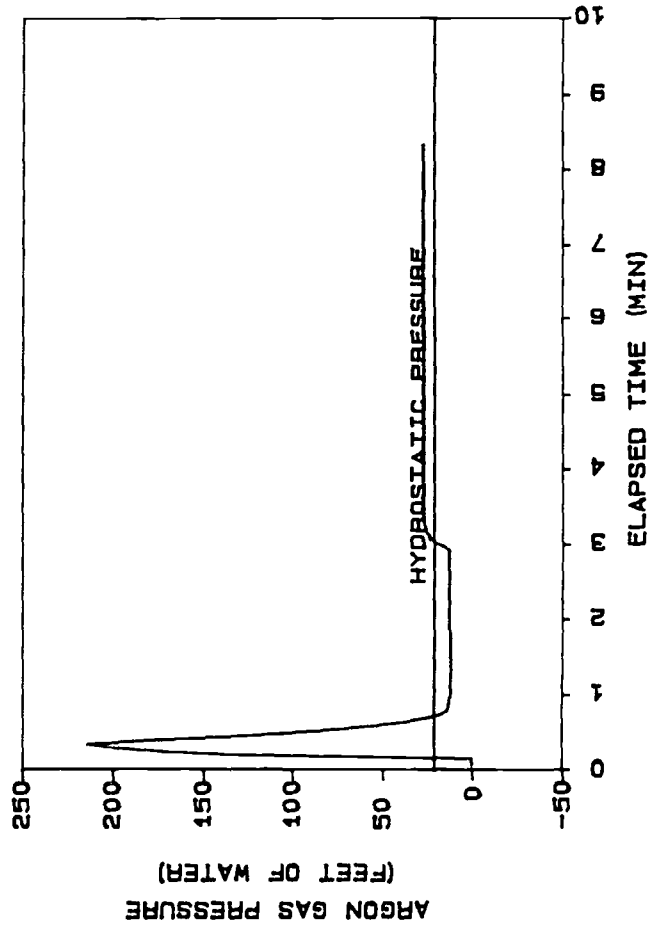
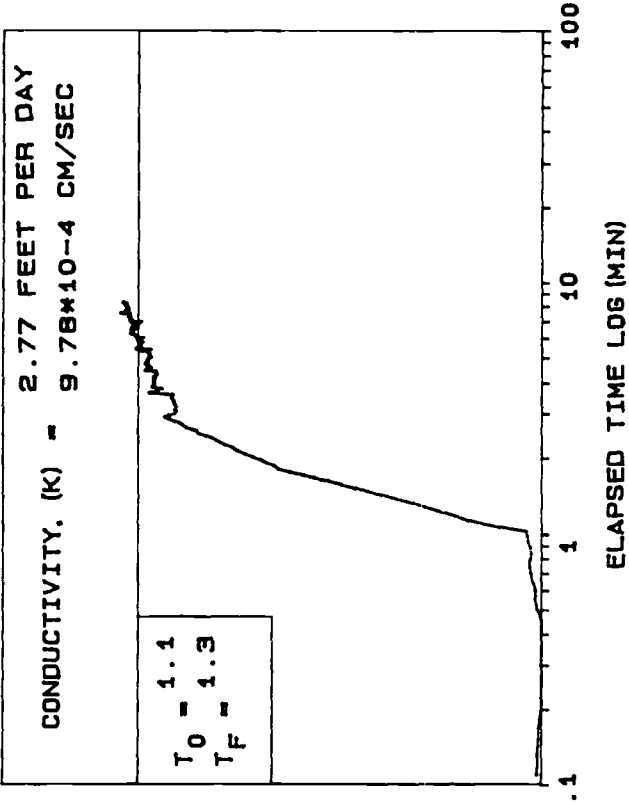
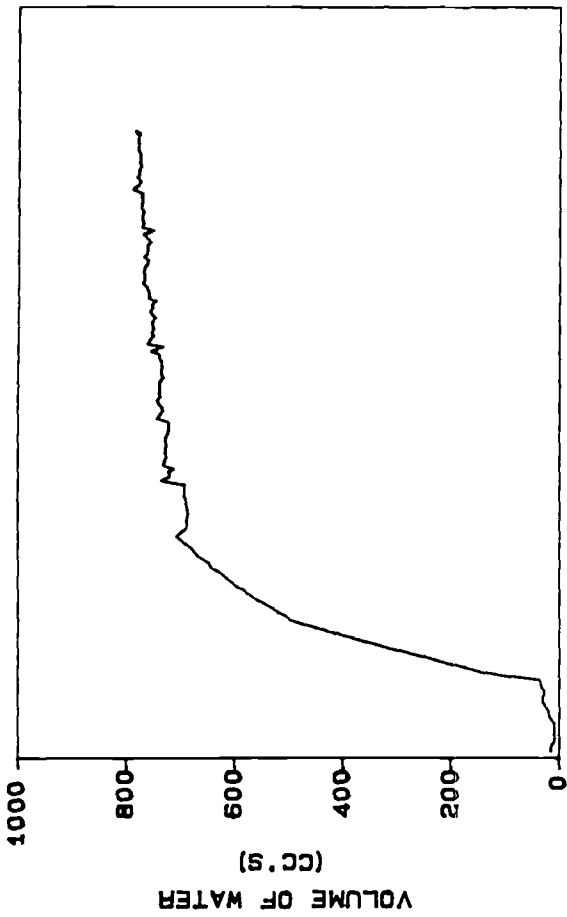
T₀ = 10
T_F = 13



ELAPSED TIME LOG (MIN)

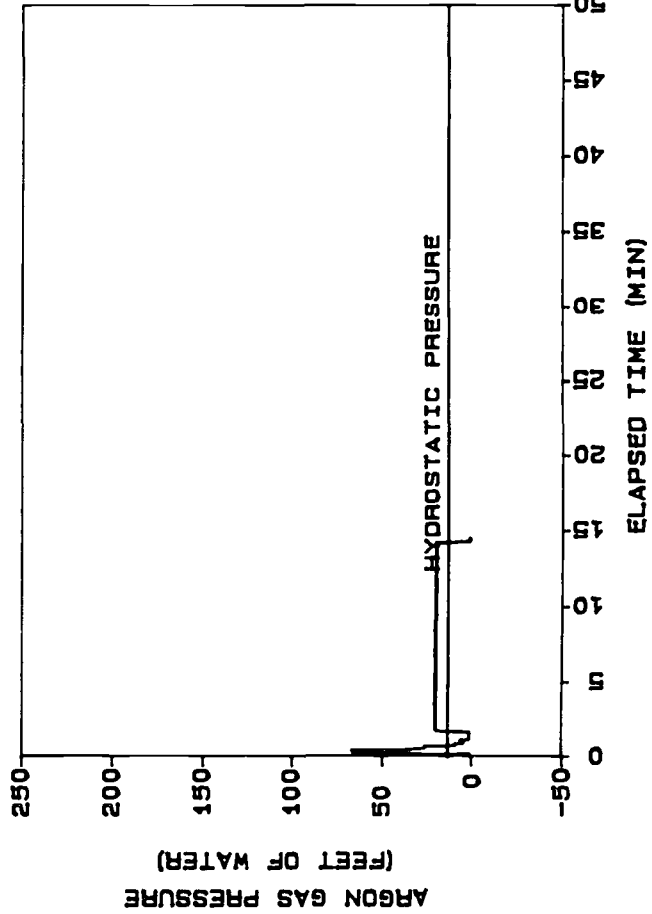
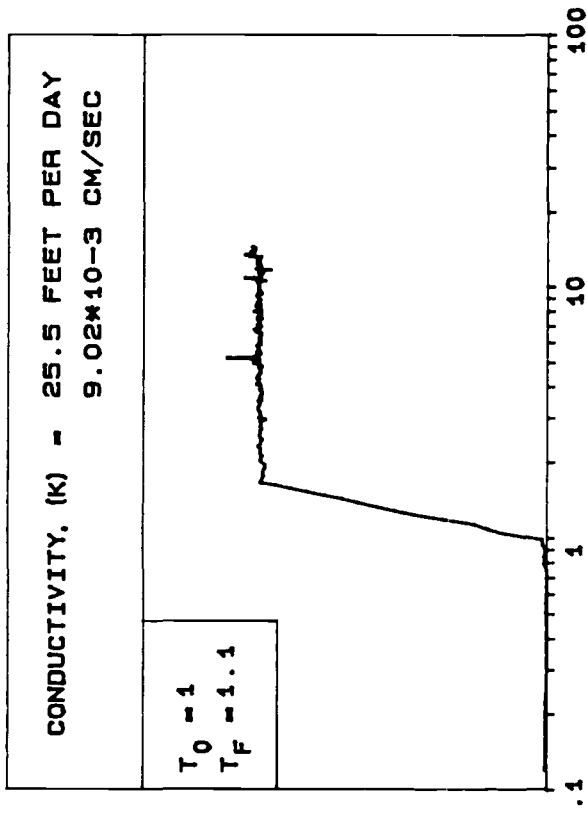
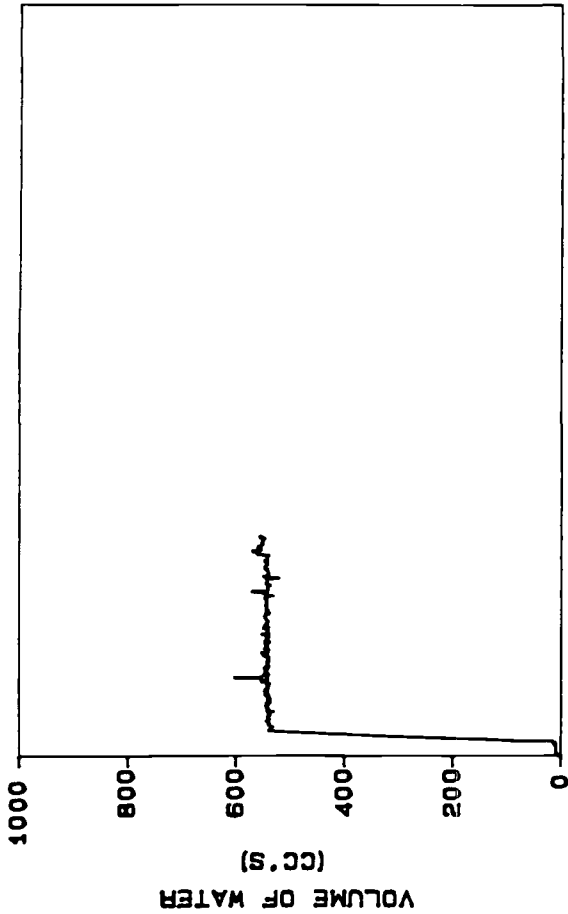
ABC CLEANERS
LOCATION... HC15-24
TEST DATE
12/13/91 15:04:56
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC15-36.5
 TEST DATE
 12/13/91 14:20:13
 SAMPLE DEPTH (FT) 36.5
 GROUNDWATER DEPTH (FT) 18

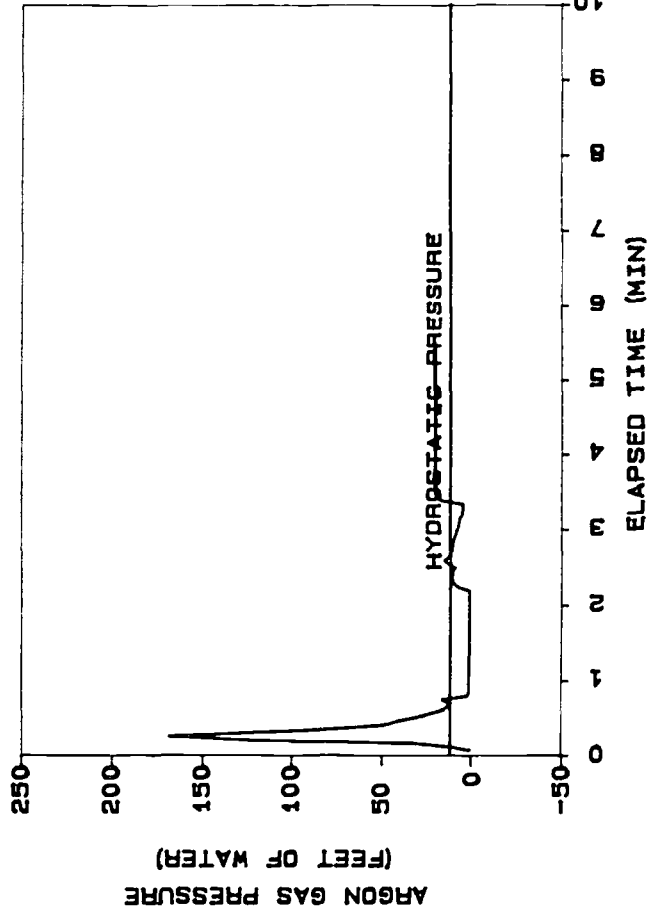
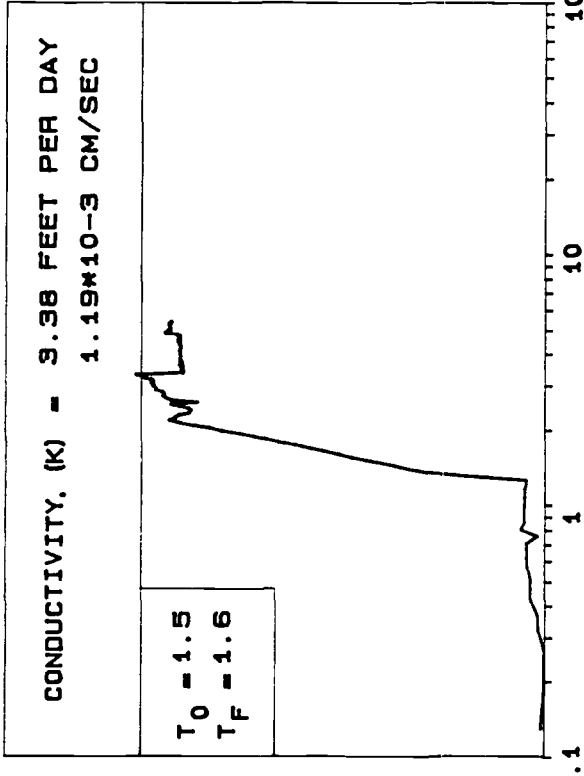
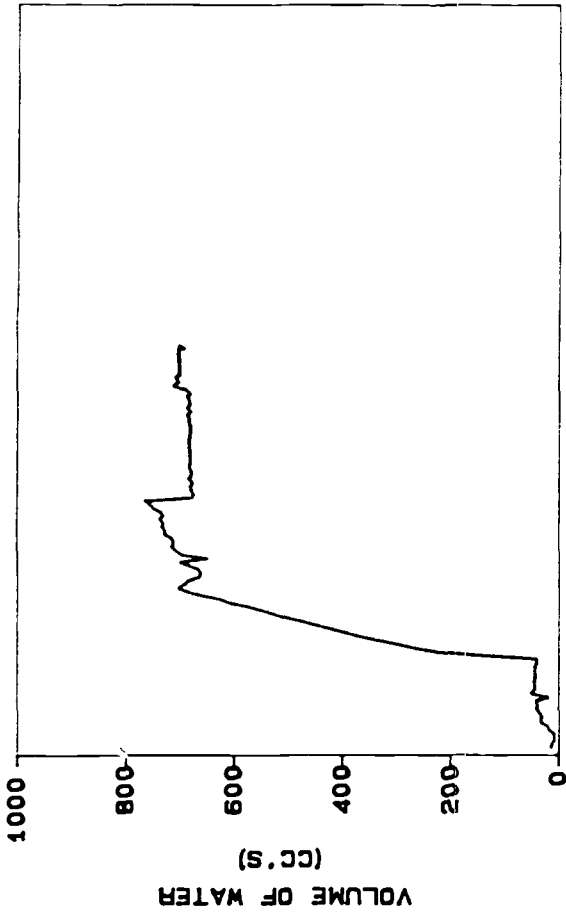
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

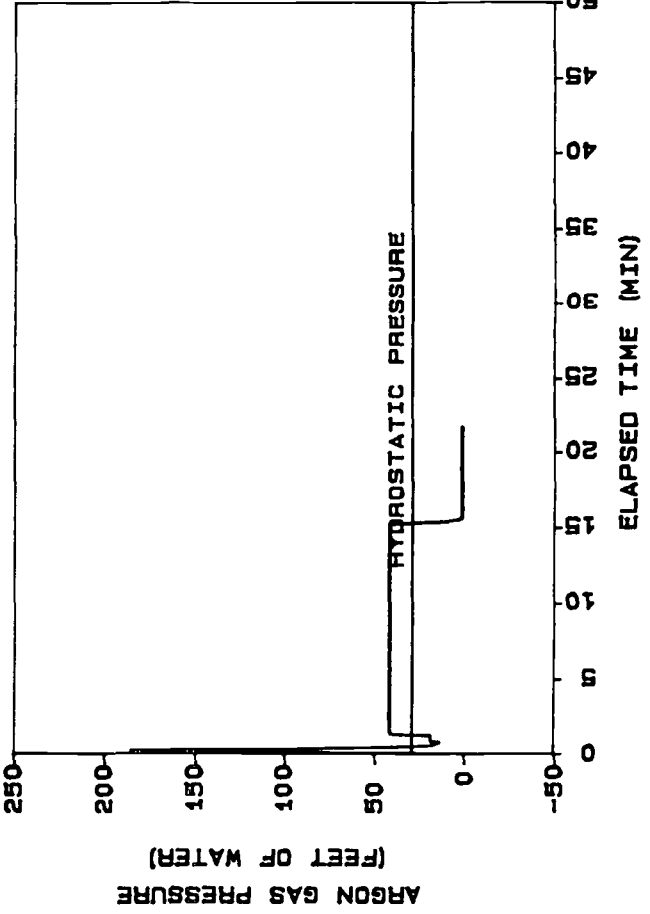
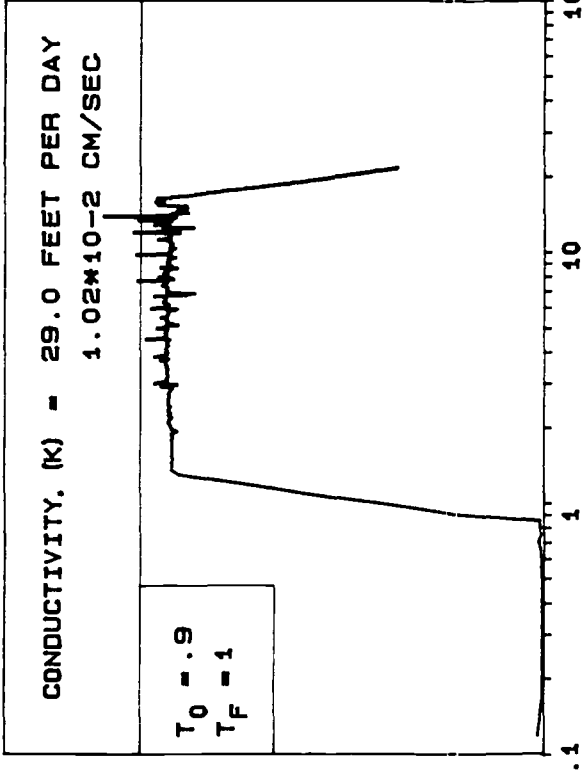
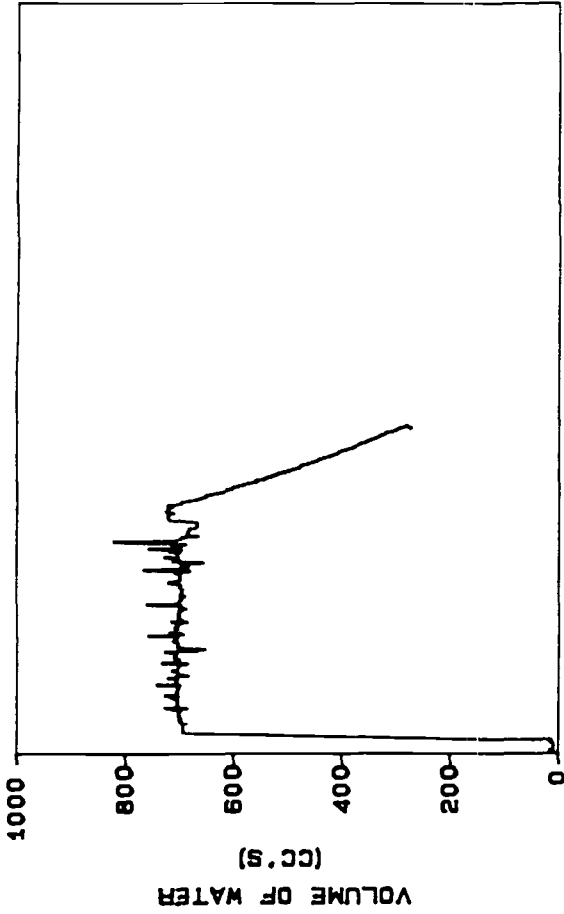
ABC CLEANERS
LOCATION... HC16-30
TEST DATE
12/13/91 11:33:05
SAMPLE DEPTH (FT) 30
GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
LOCATION... HC17-27
TEST DATE
12/14/91 11:20:44
SAMPLE DEPTH (FT) 27
GROUNDWATER DEPTH (FT) 16

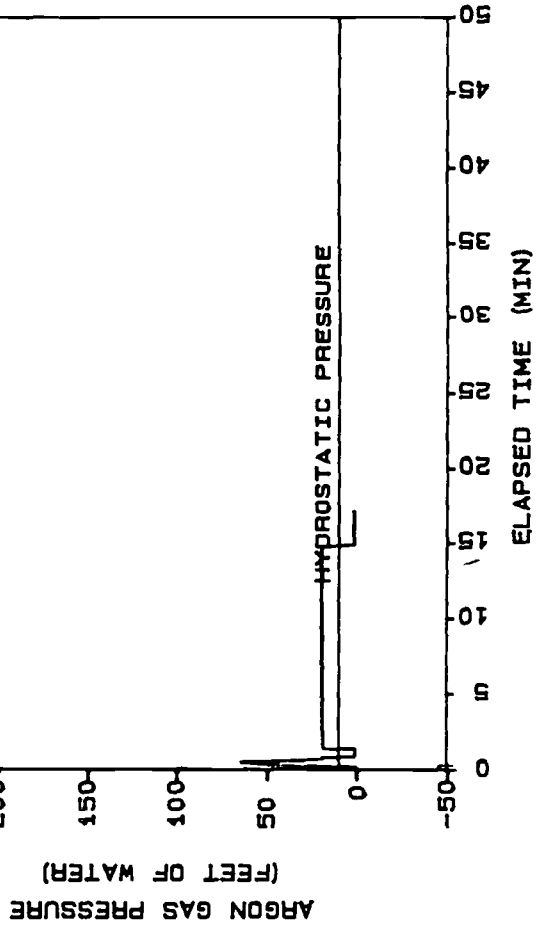
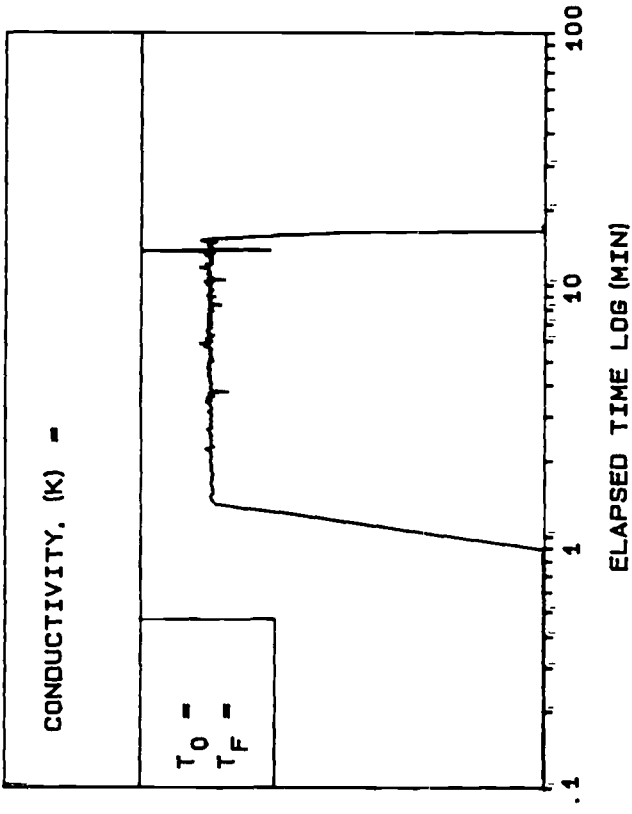
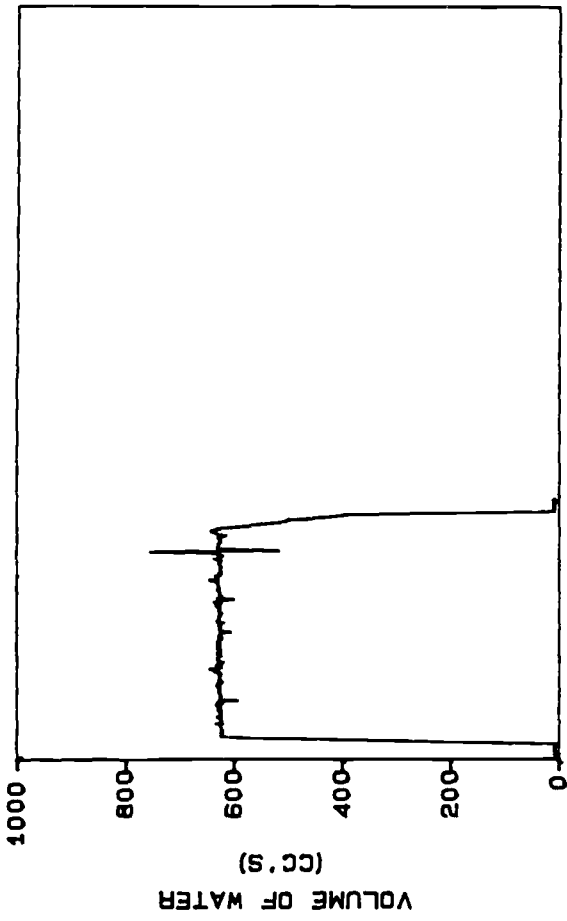
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

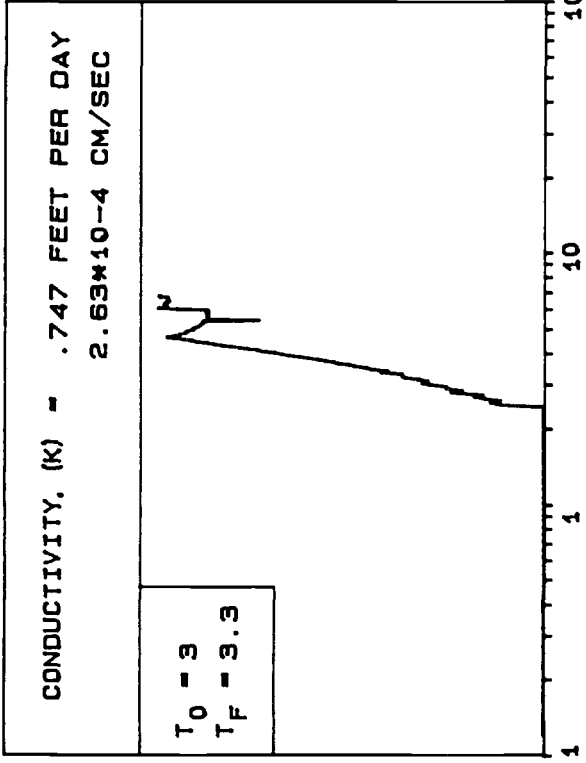
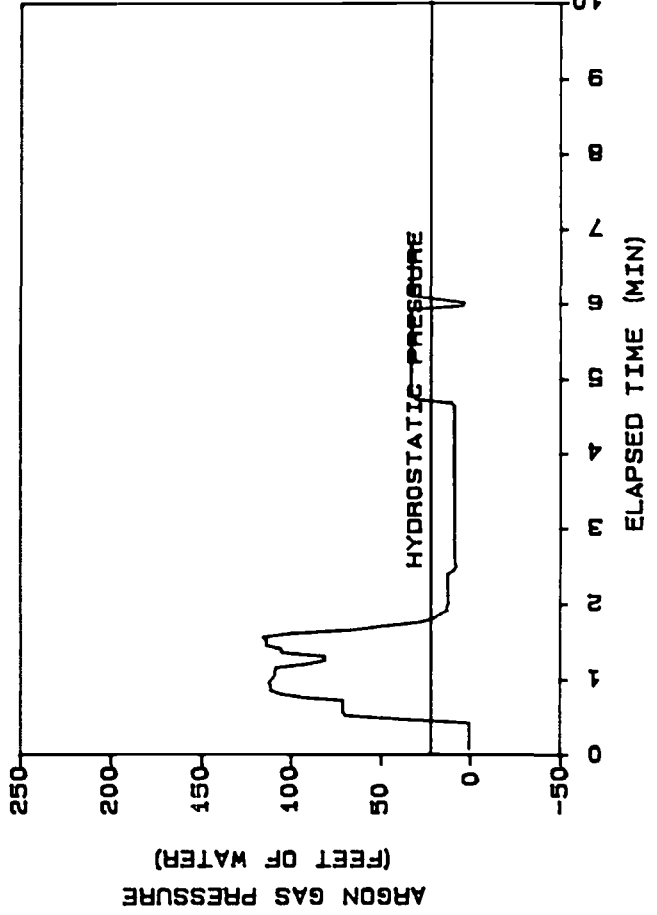
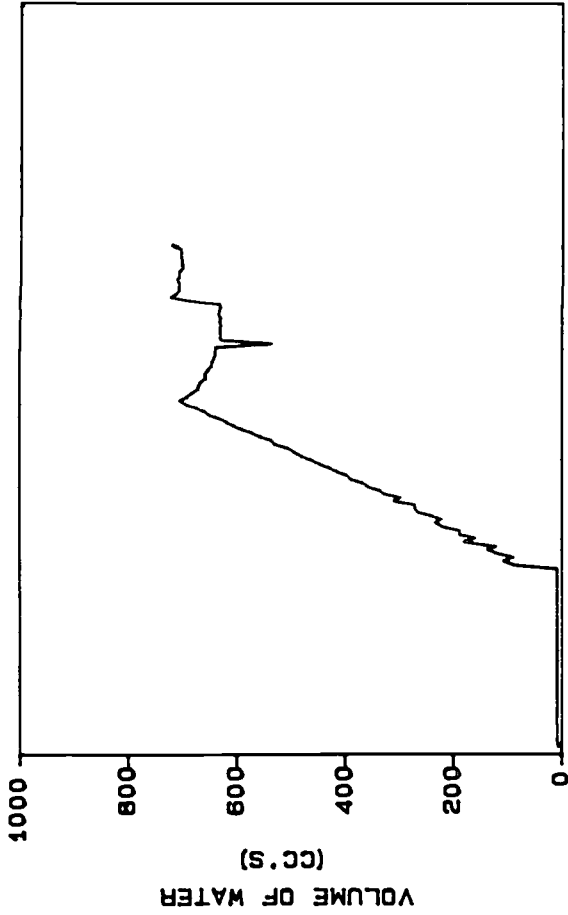
ABC CLEANERS
 LOCATION... HC17-44
 TEST DATE
 12/14/91 10:37:06
 SAMPLE DEPTH (FT) 44
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



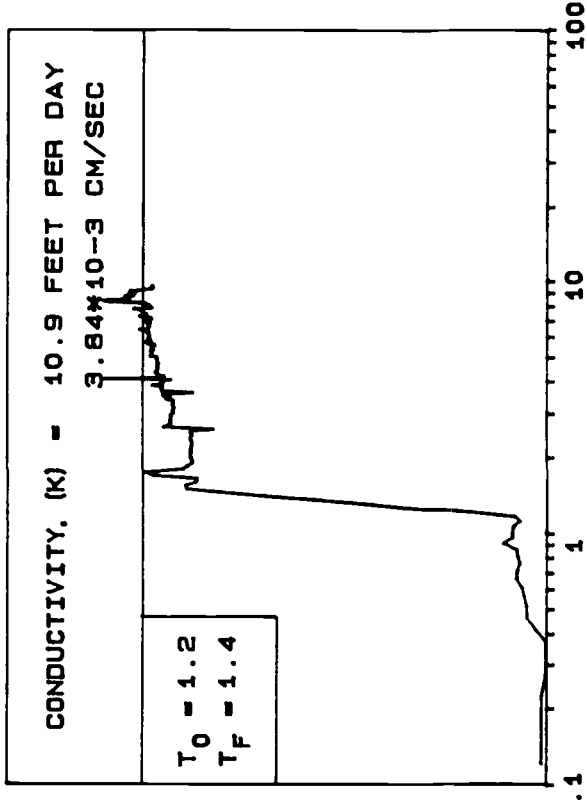
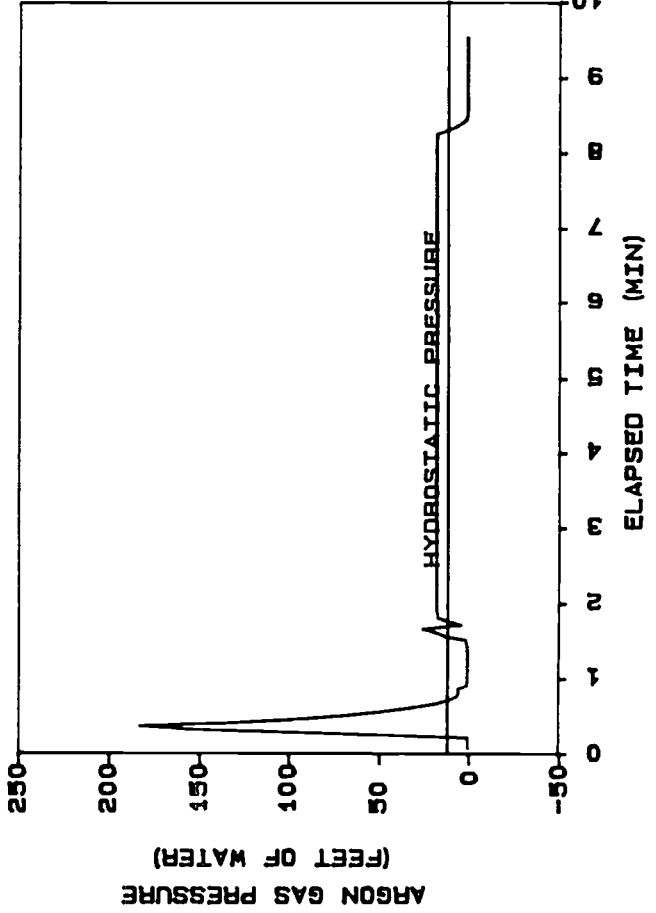
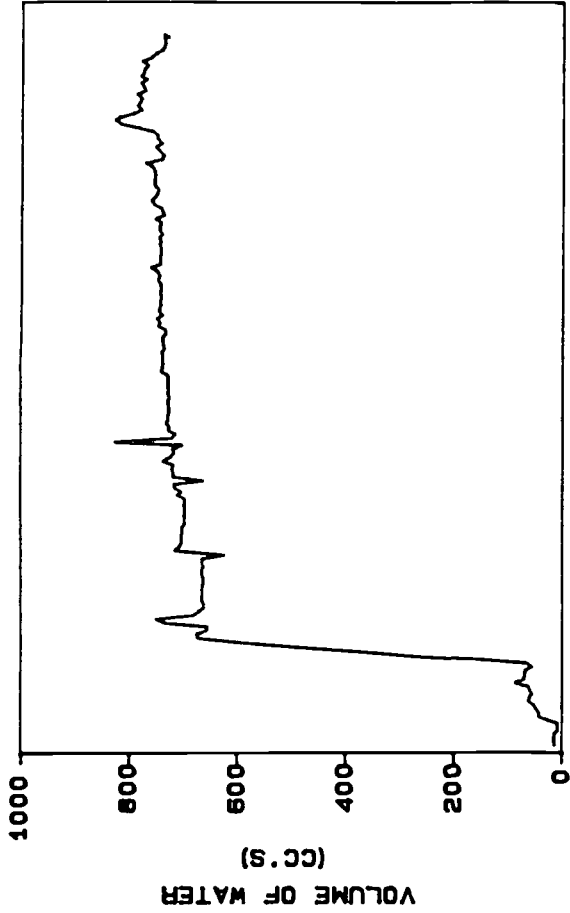
ABC CLEANERS
LOCATION... HC18-24
TEST DATE
12/14/91 08:30:17
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



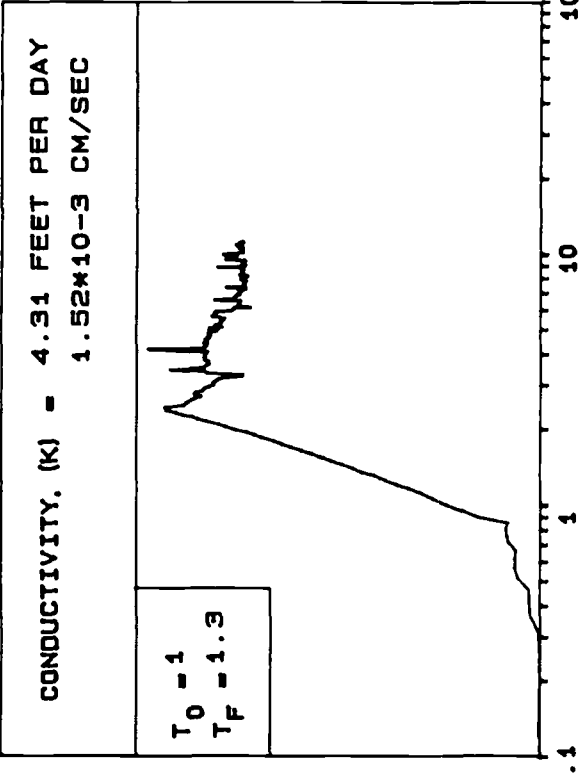
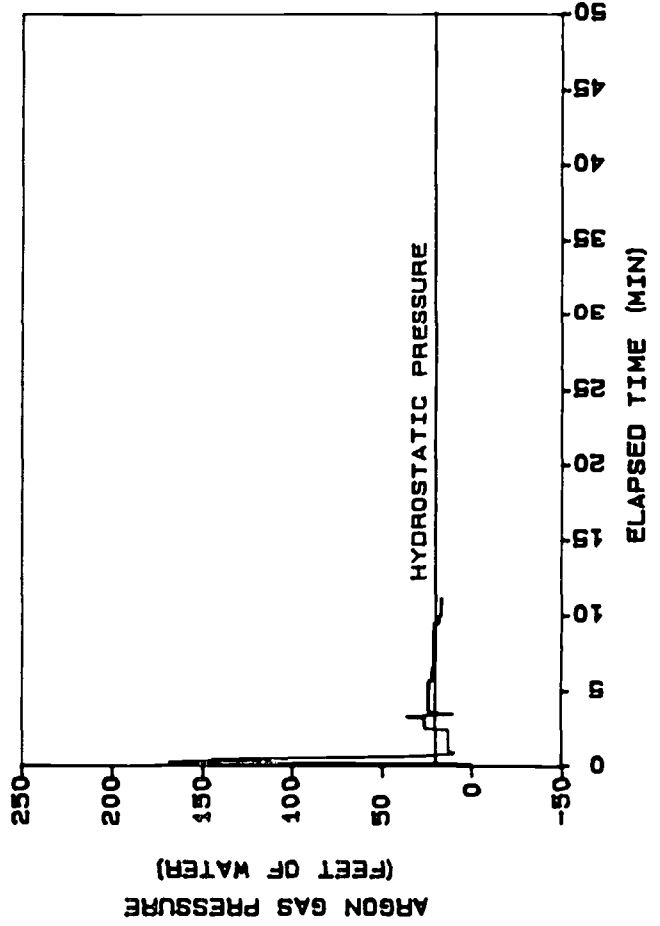
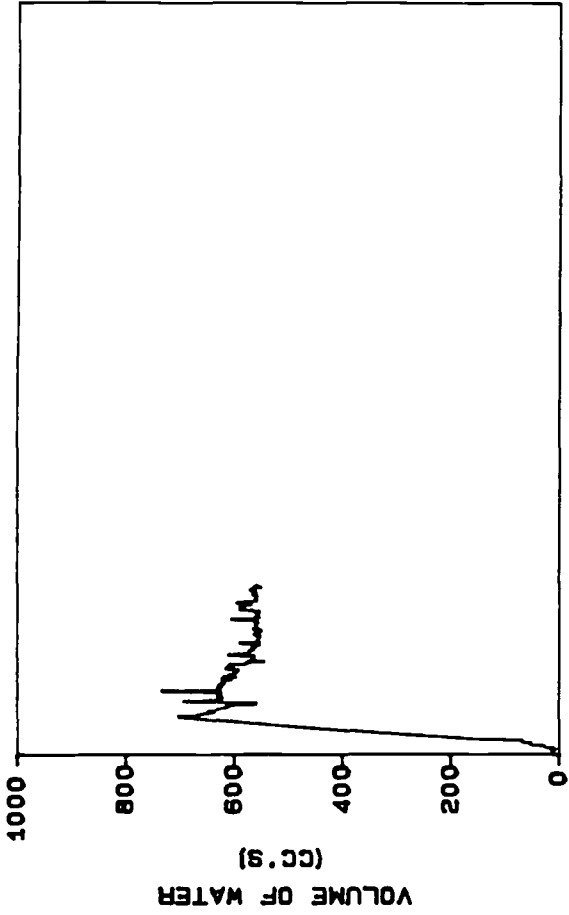
ABC CLEANERS
 LOCATION... HC18-36
 TEST DATE
 12/13/91 17:23:13
 SAMPLE DEPTH (FT) 38
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC19--25
 TEST DATE
 12/14/91 13:00:33
 SAMPLE DEPTH (FT) 25
 GROUNDWATER DEPTH (FT) 14

HYDROCOONE TEST

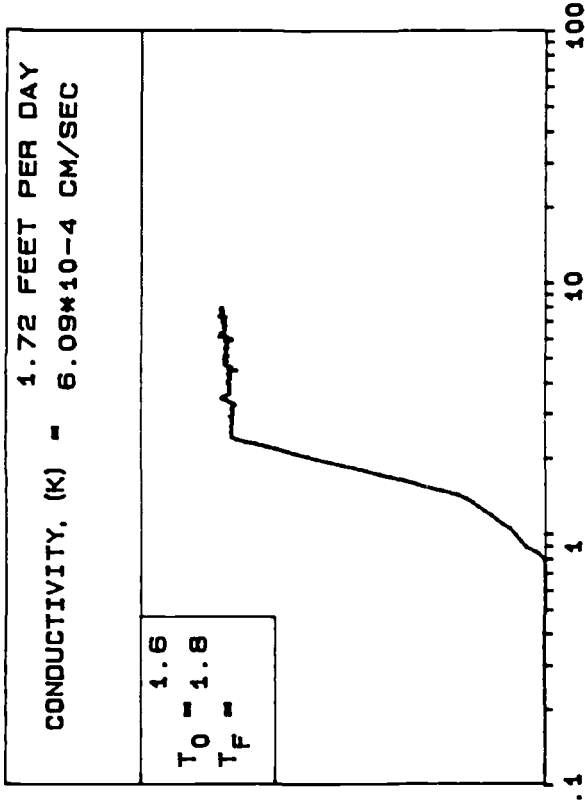
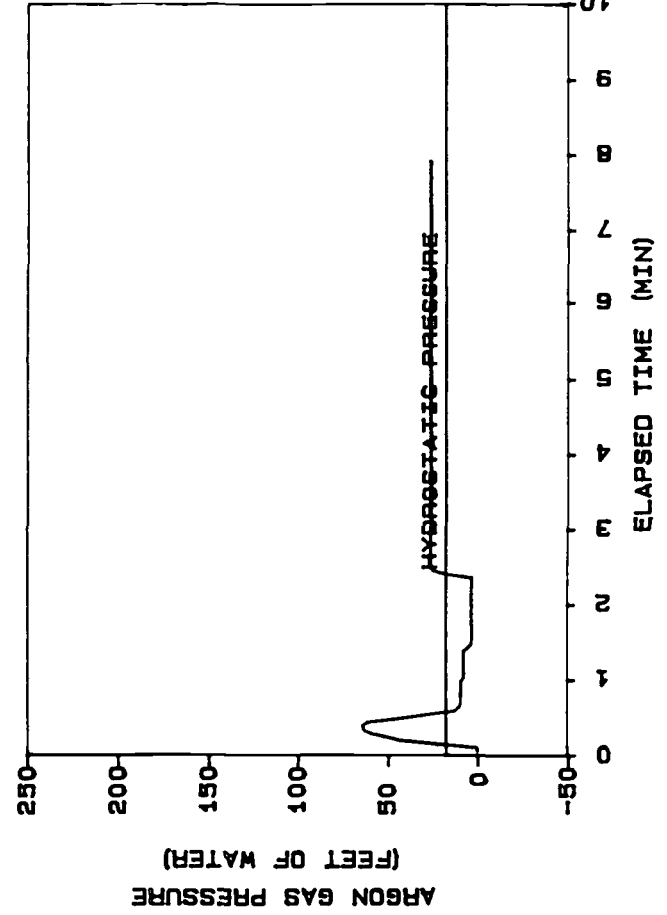
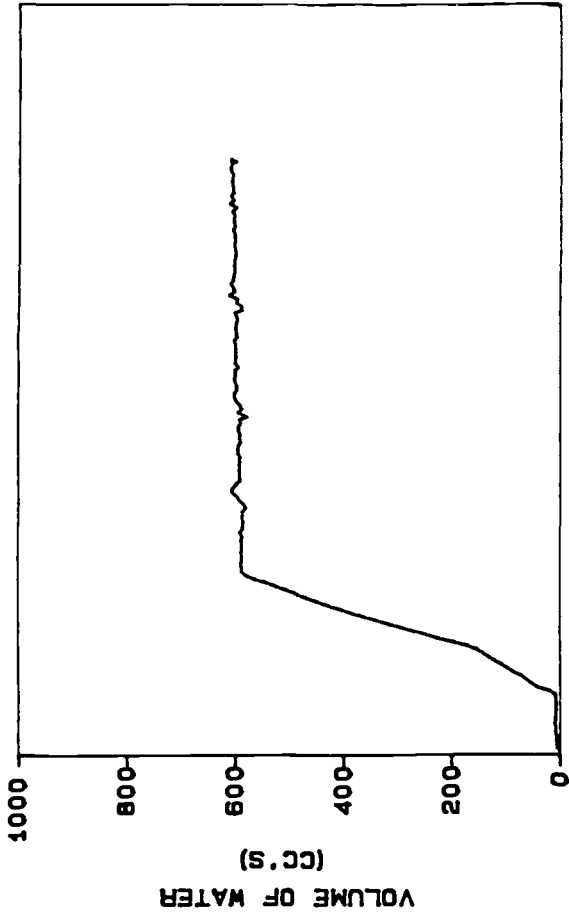


T_O = 1
 T_F = 1.3

ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC19-35.5
 TEST DATE
 12/14/91 14: 37: 19
 SAMPLE DEPTH (FT) 35.5
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



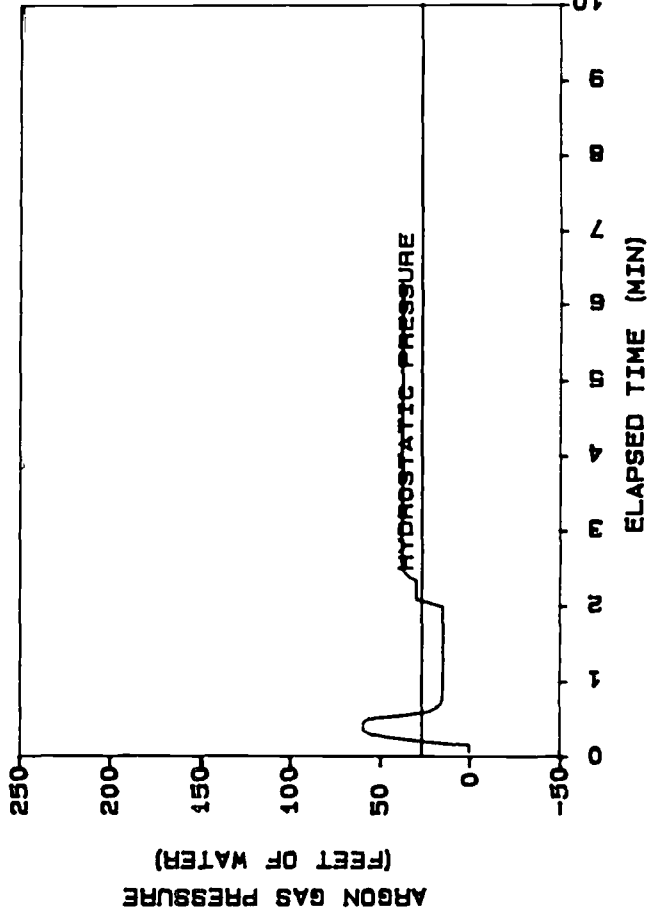
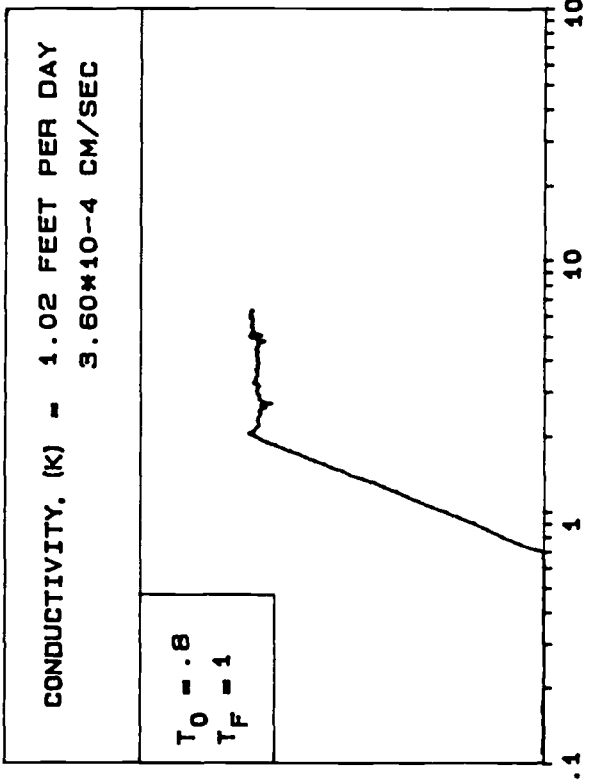
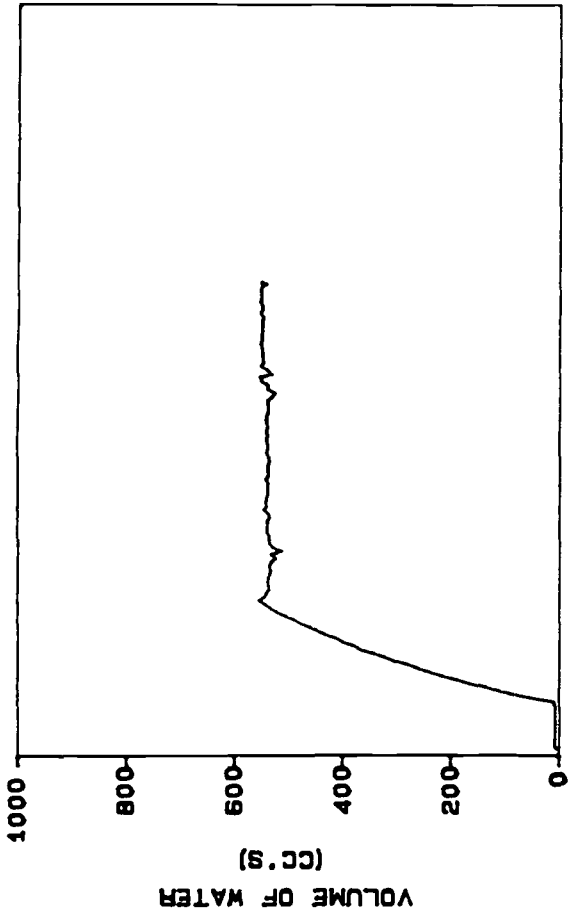
CONDUCTIVITY, (K) = 6.09*10⁻⁴ CM/SEC

T₀ = 1.6
T_F = 1.8

ELAPSED TIME LOG (MIN)

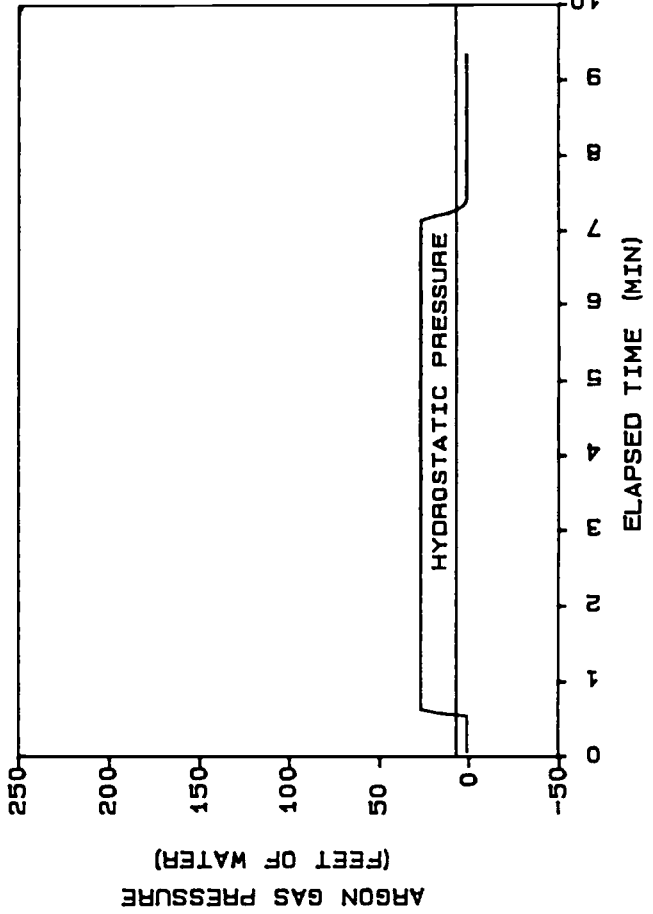
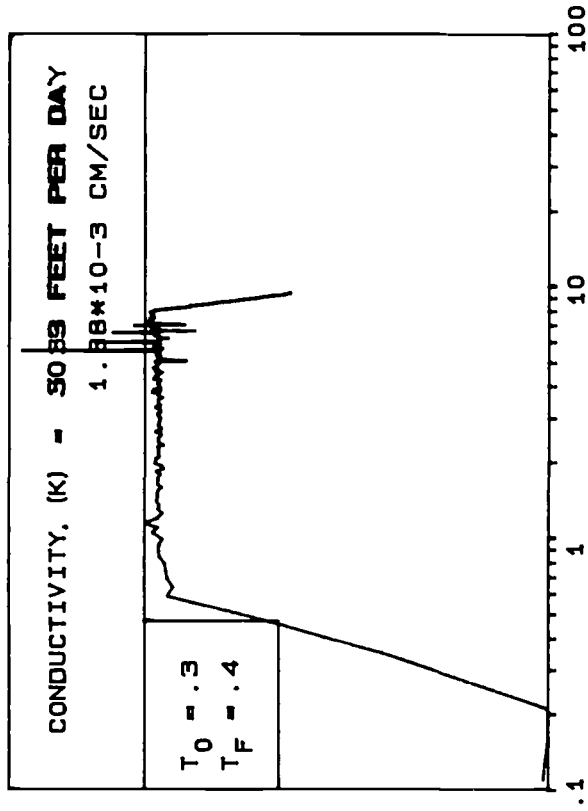
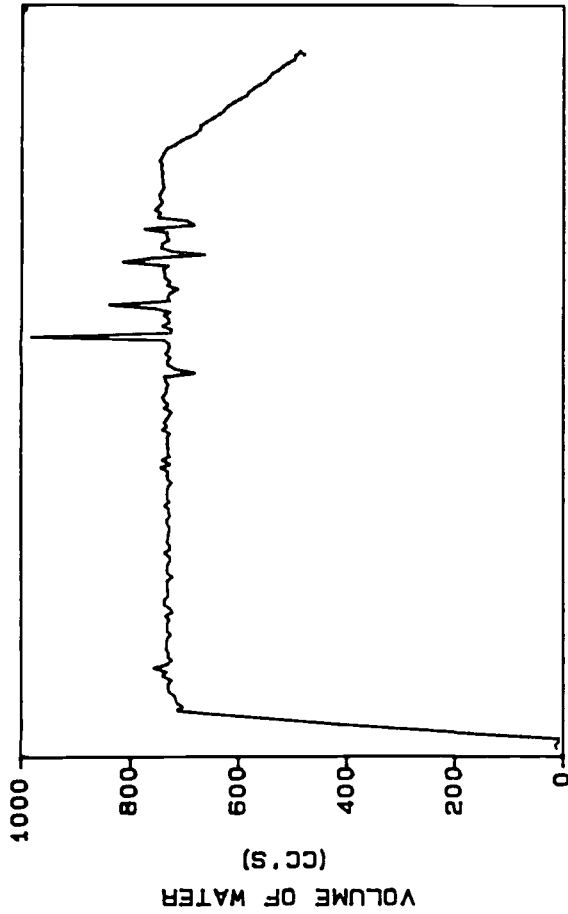
ABC CLEANERS
LOCATION... HC20-34
TEST DATE
12/14/91 10:46:41
SAMPLE DEPTH (FT) 34
GROUNDWATER DEPTH (FT) 17

HYDROCONE TEST



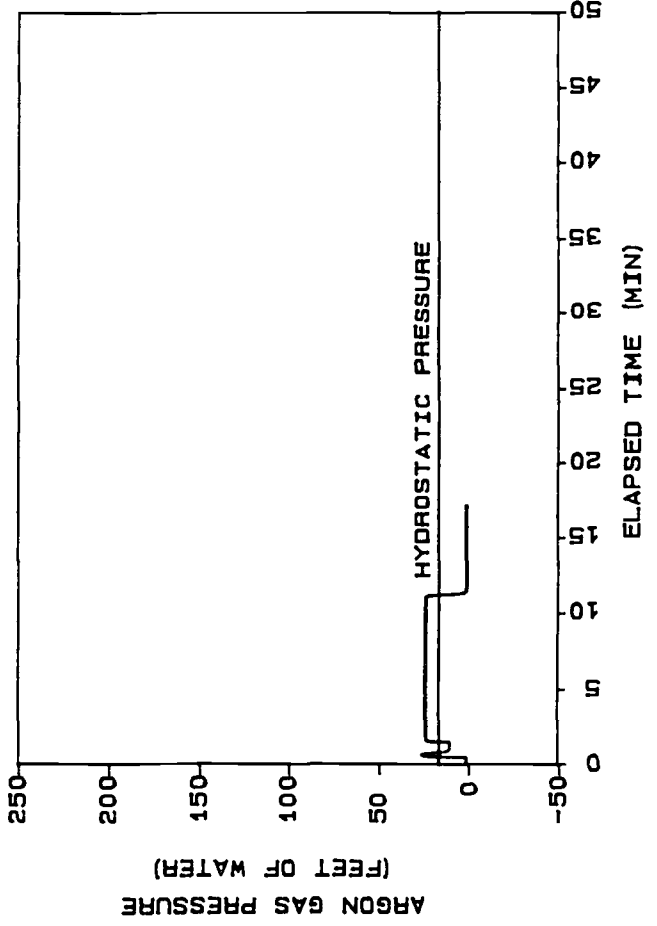
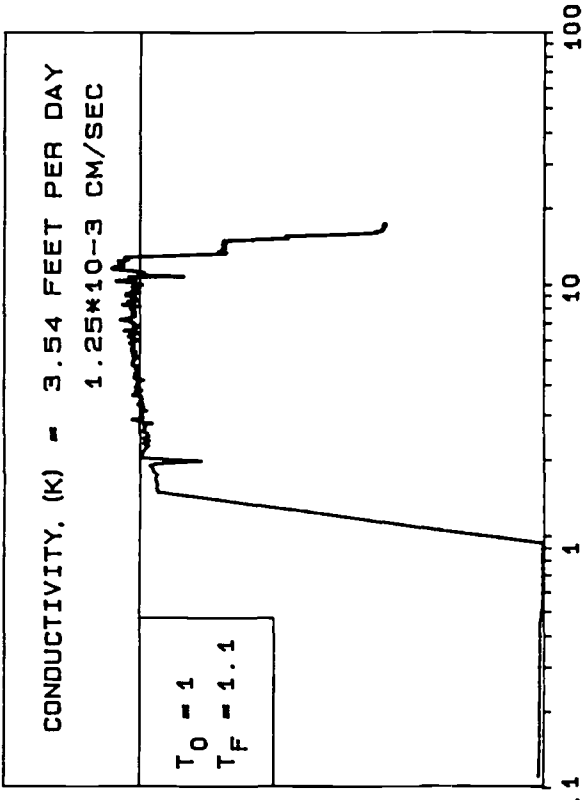
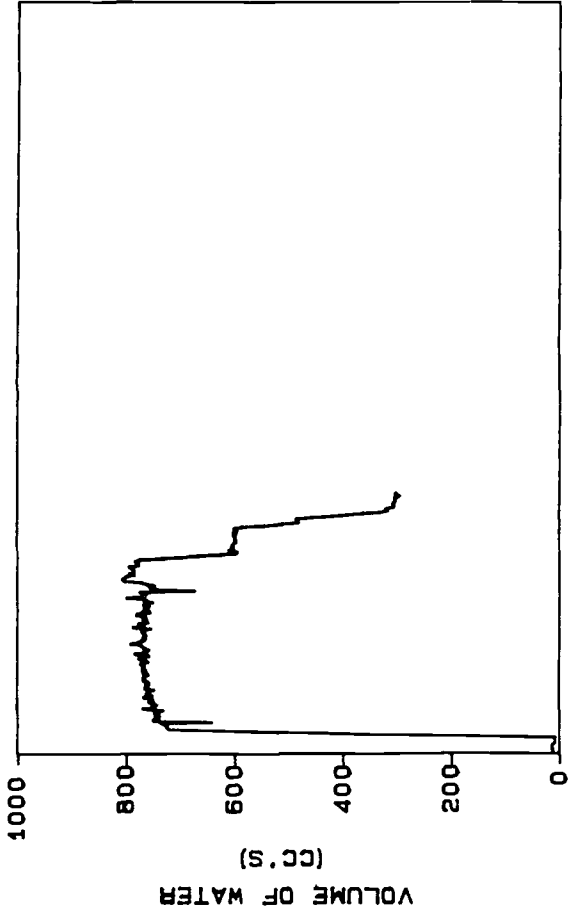
ABC CLEANERS
 LOCATION... HC20-41
 TEST DATE
 12/14/91 11:42:54
 SAMPLE DEPTH (FT) 41
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC21-22
 TEST DATE
 12/15/91 09:14:21
 SAMPLE DEPTH (FT) 22
 GROUNDWATER DEPTH (FT) 18

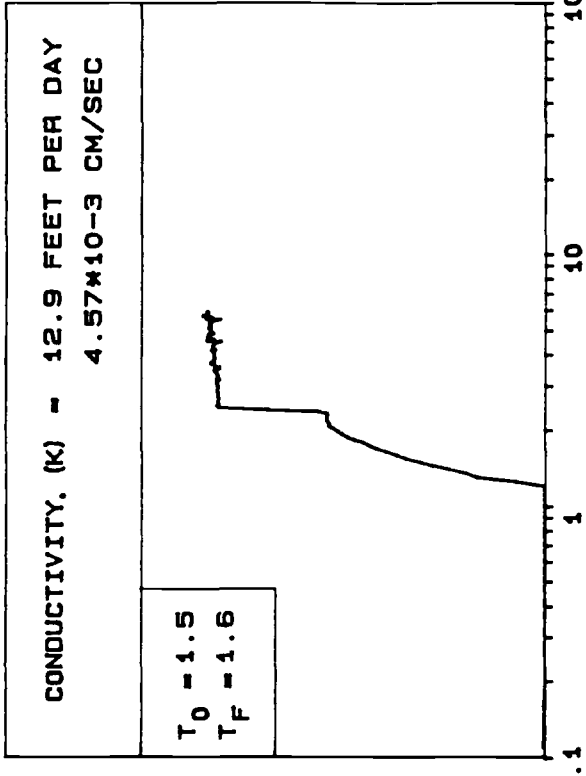
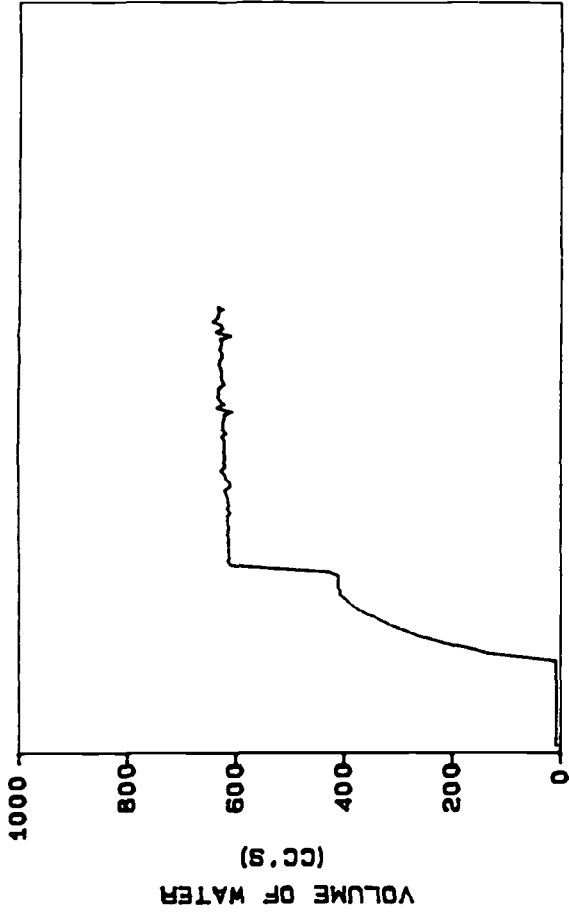
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

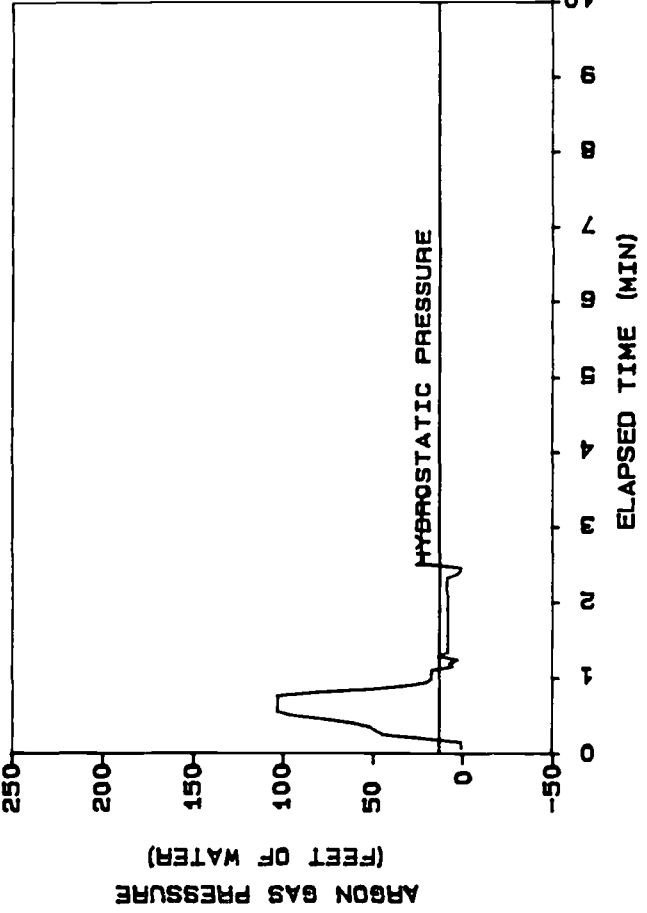
ABC CLEANERS
 LOCATION... HC21-31.5
 TEST DATE
 12/15/91 09:55:45
 SAMPLE DEPTH (FT) 31.5
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



CONDUCTIVITY, (K) = 12.9 FEET PER DAY
4.57*10⁻³ CM/SEC

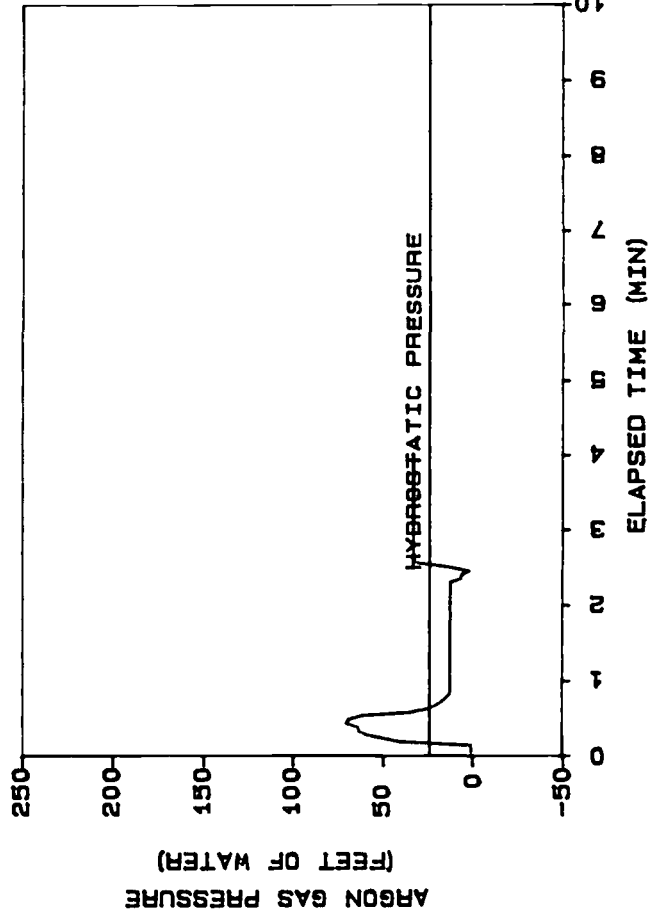
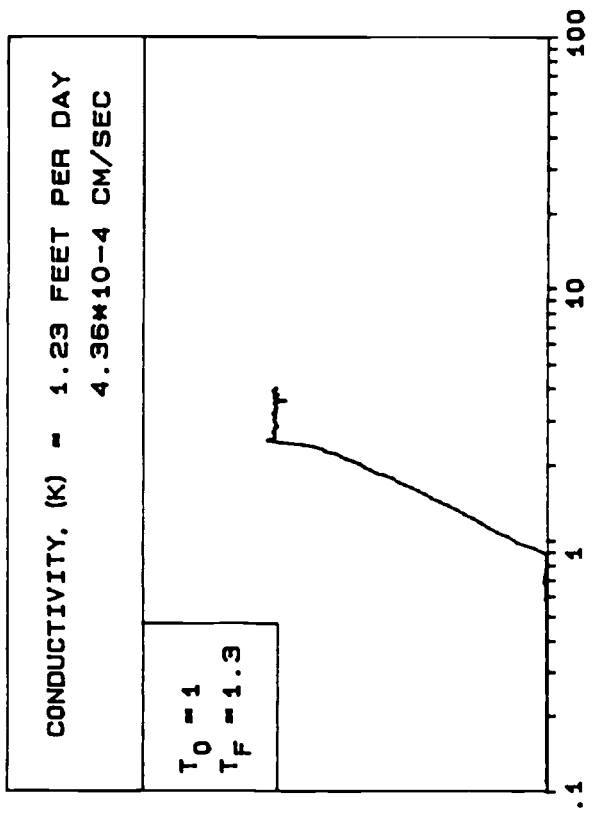
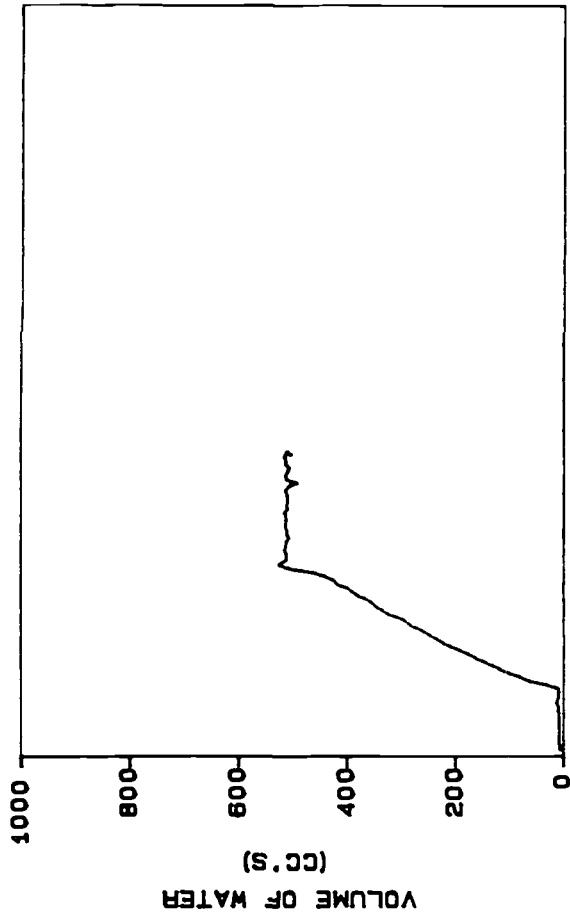
T₀ = 1.5
T_F = 1.6



ELAPSED TIME LOG (MIN)

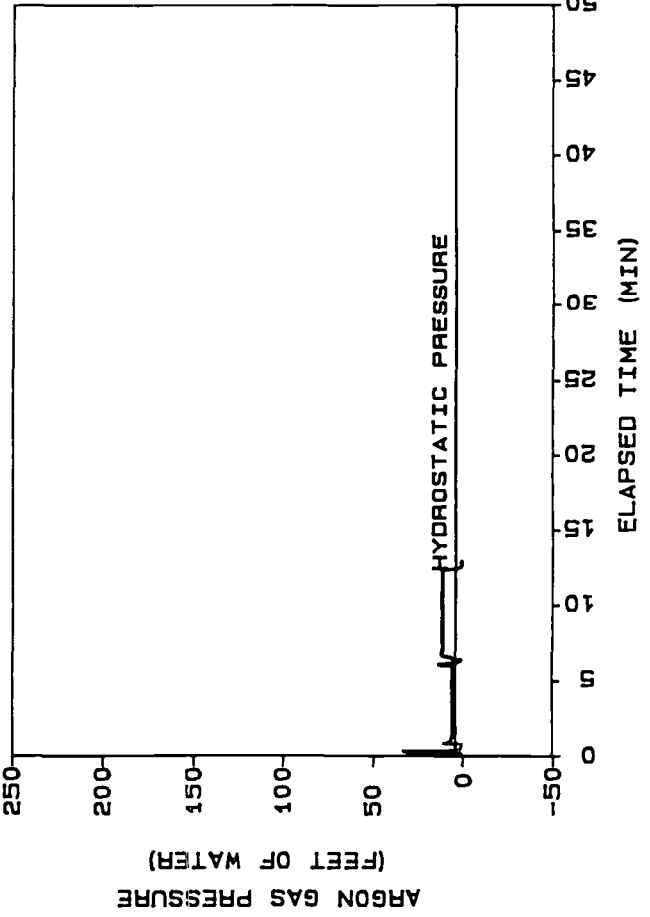
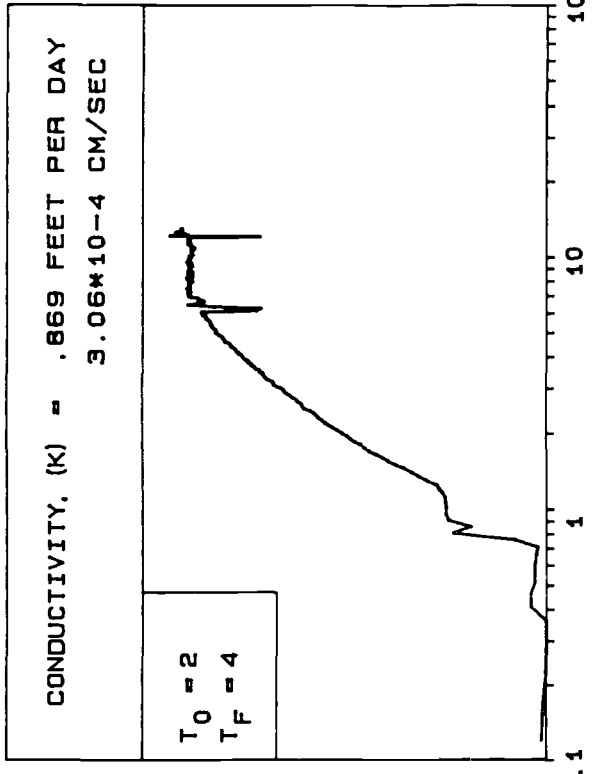
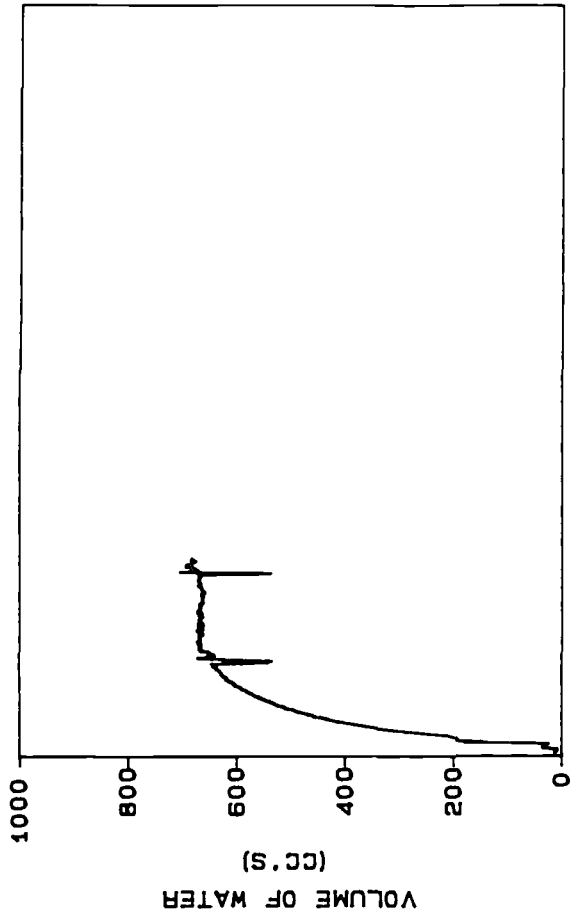
ABC CLEANERS
LOCATION... HC22-30
TEST DATE
12/14/91 13:10:22
SAMPLE DEPTH (FT) 30
GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



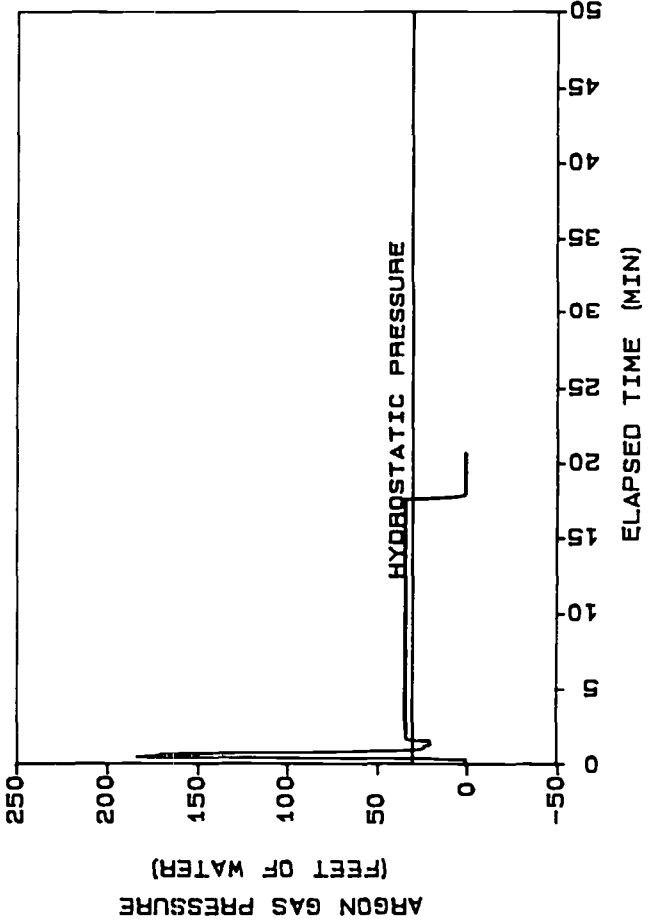
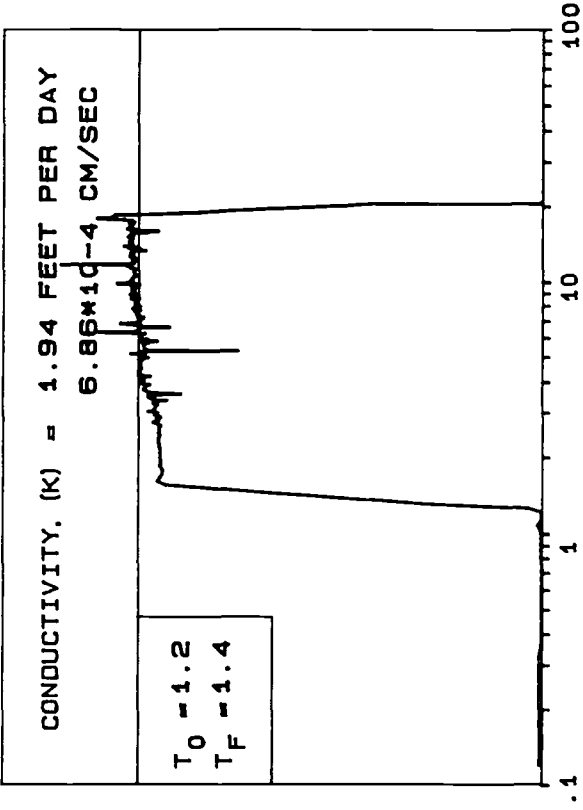
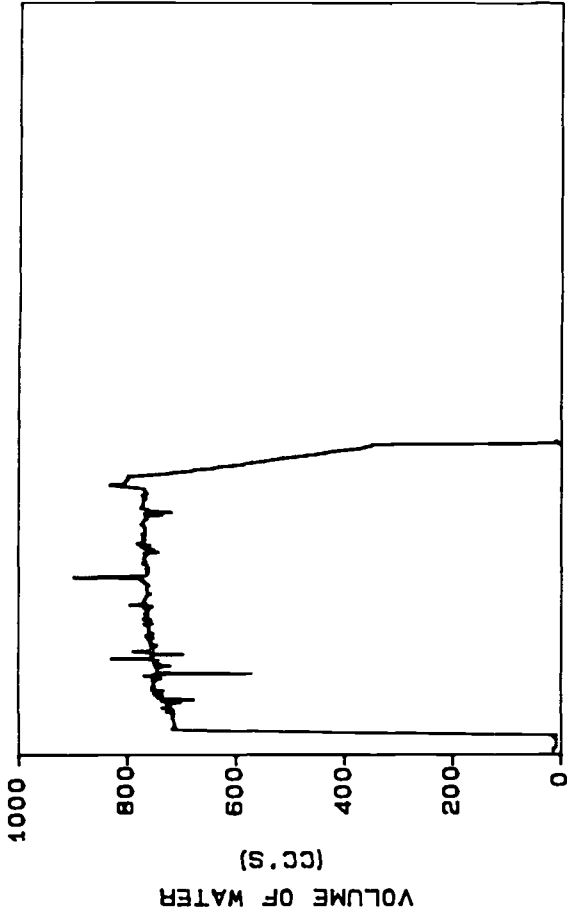
ABC CLEANERS
 LOCATION... HC22-41
 TEST DATE
 12/14/91 13:55:25
 SAMPLE DEPTH (FT) 41
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC23-19
 TEST DATE
 12/15/91 13: 25: 49
 SAMPLE DEPTH (FT) 19
 GROUNDWATER DEPTH (FT) 16

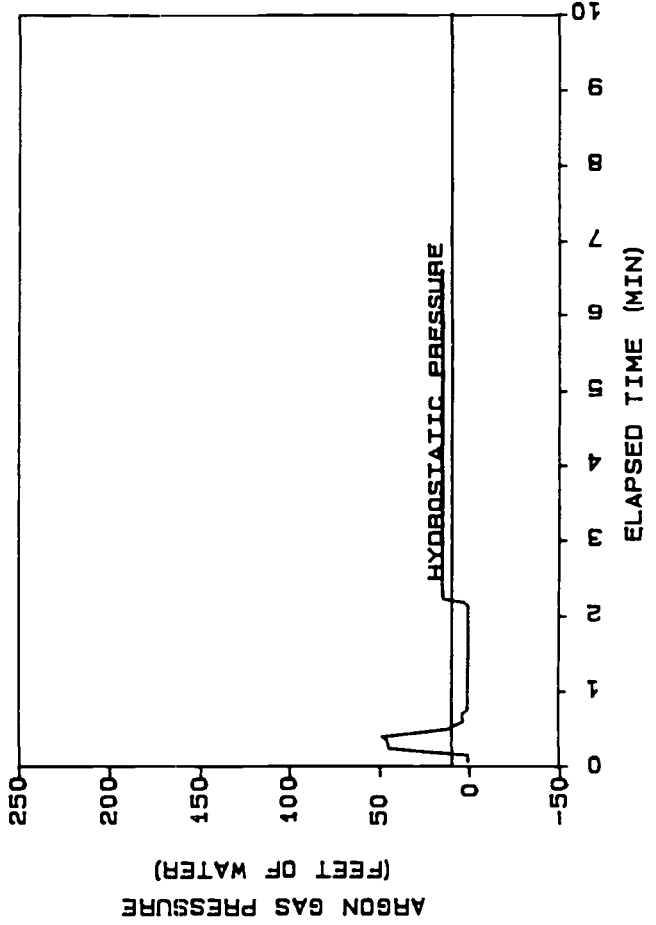
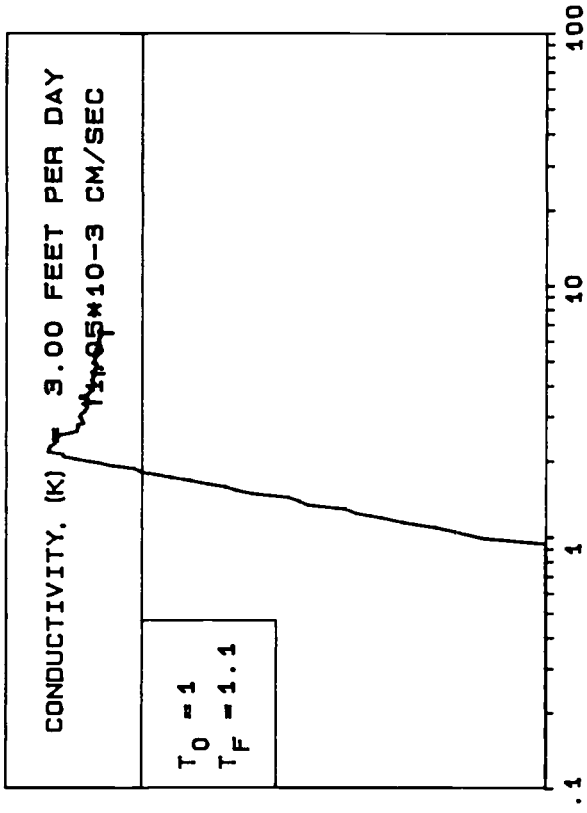
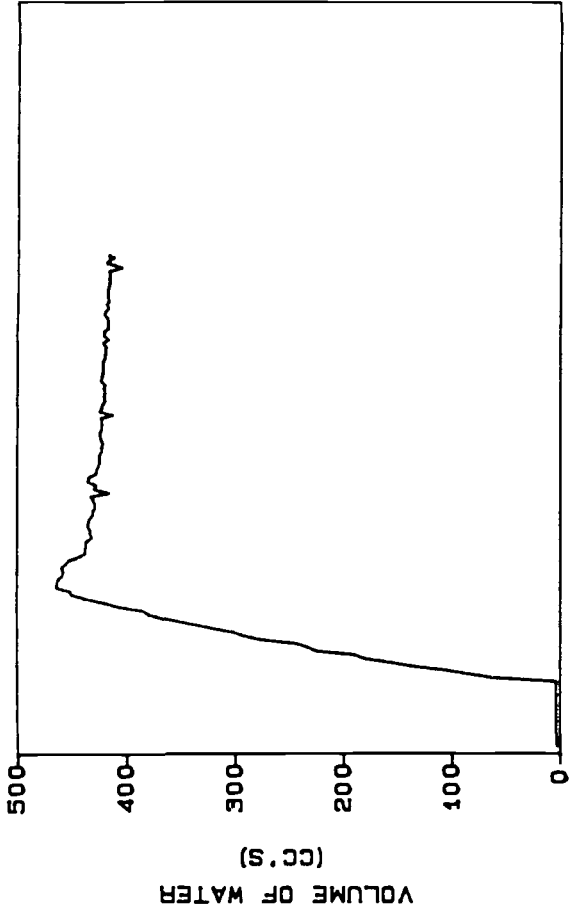
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

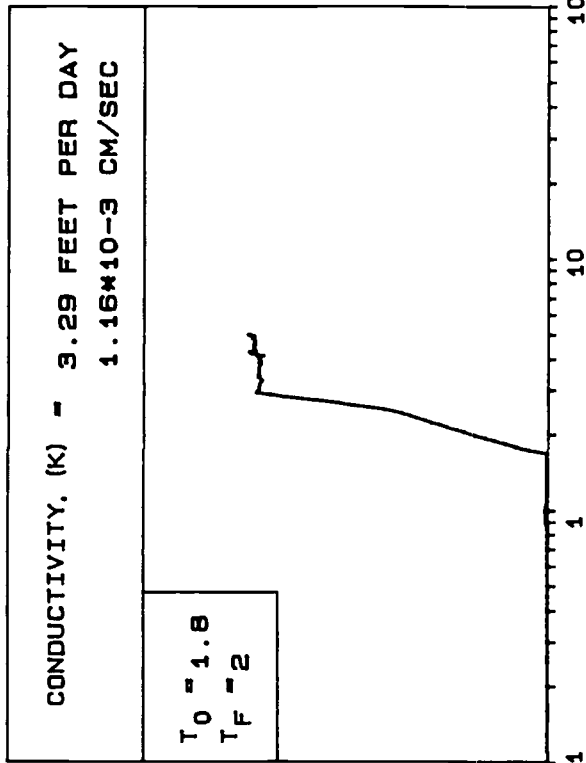
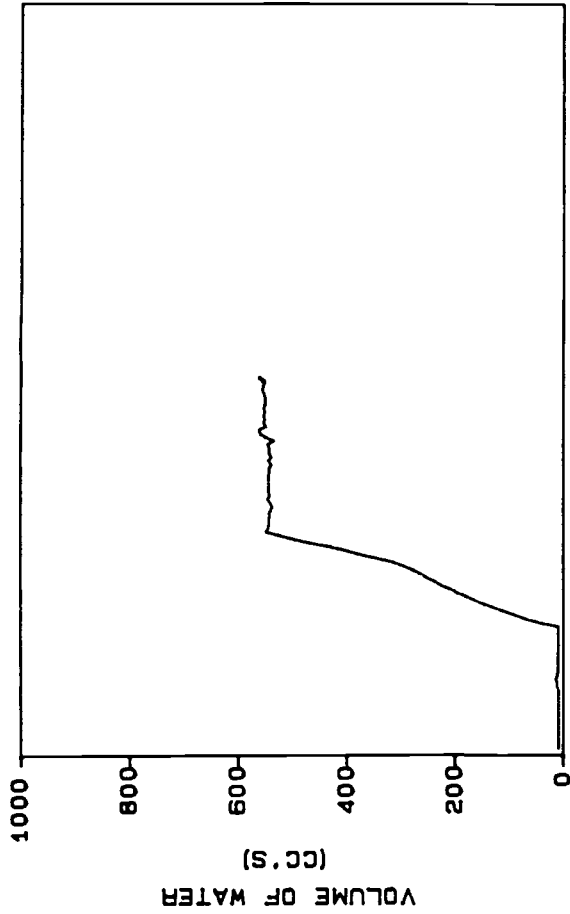
HC24-28
 LOCATION... HC23-45
 TEST DATE
 12/15/91 12: 49: 18
 SAMPLE DEPTH (FT) 45
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST

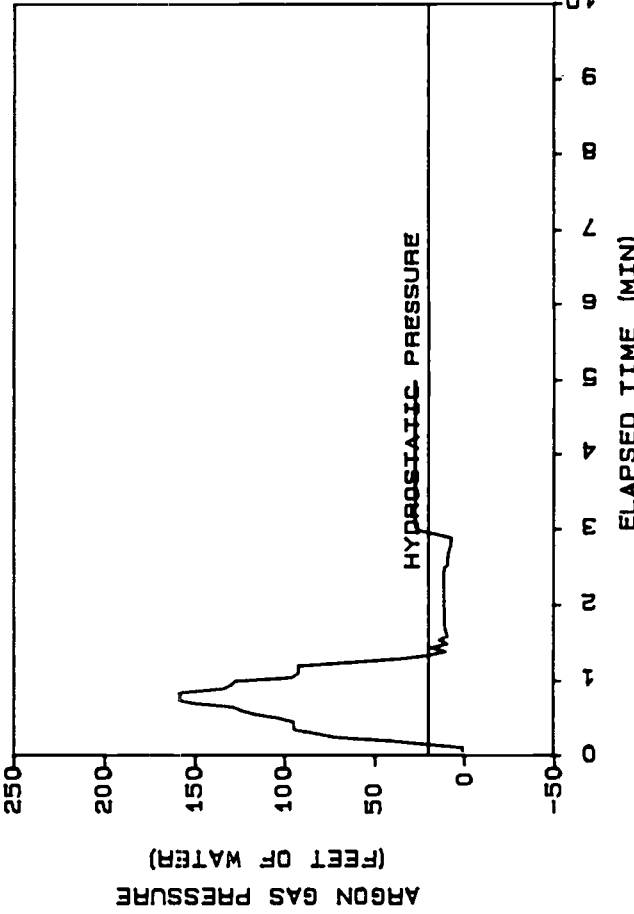


ABC CLEANERS
 LOCATION... HC24-28
 TEST DATE
 12/14/91 16:48:42
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 19.5

HYDROCONE TEST

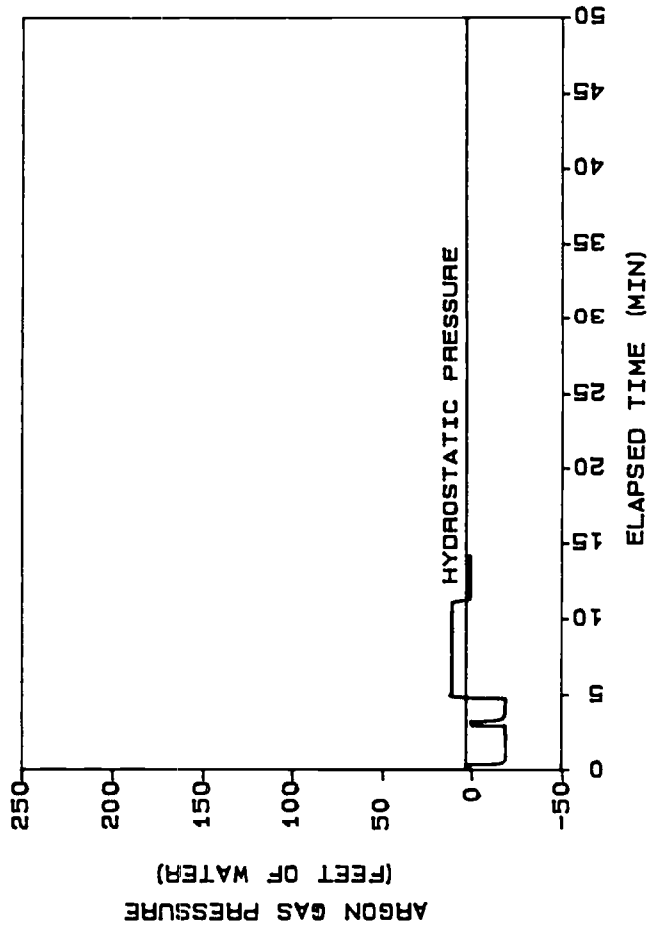
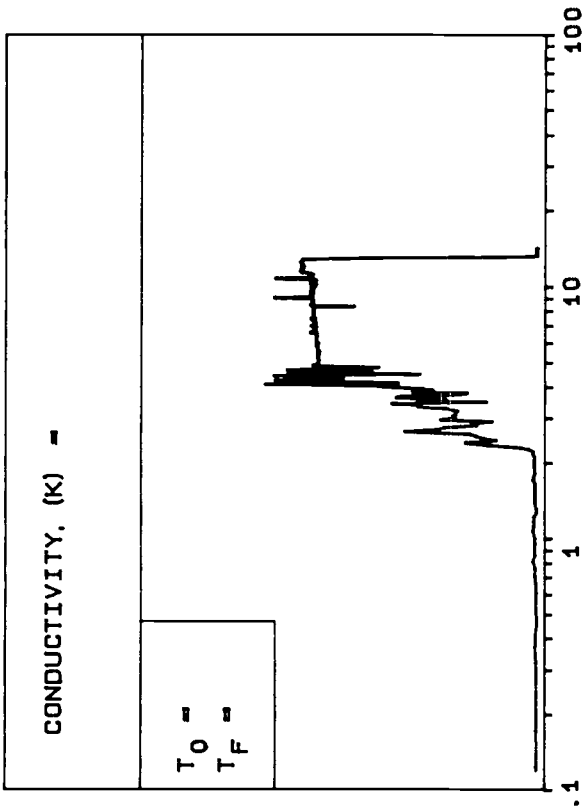
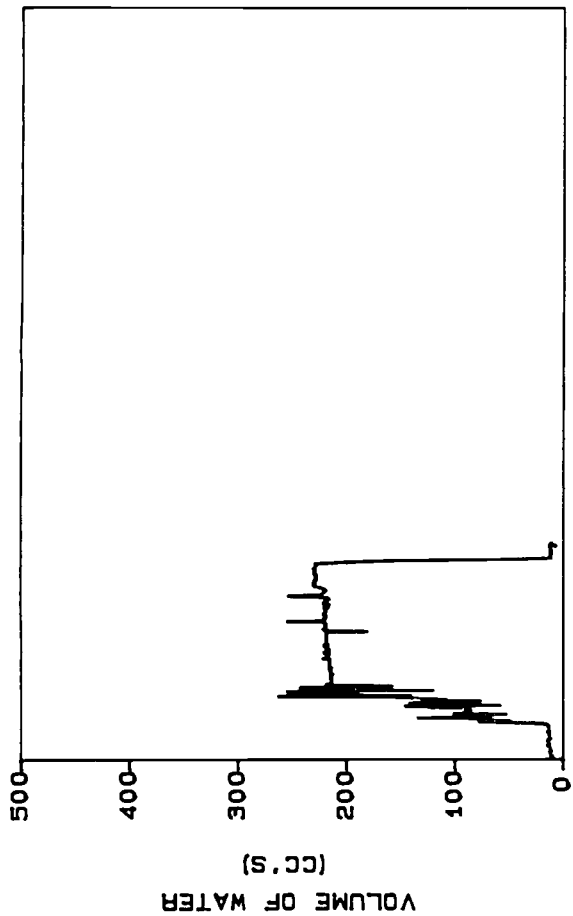


$T_0 = 1.8$
 $T_F = 2$



ABC CLEANERS
 LOCATION... HC24-38
 TEST DATE
 12/14/91 16:09:26
 SAMPLE DEPTH (FT) 38
 GROUNDWATER DEPTH (FT) 19.5

HYDROCONE TEST

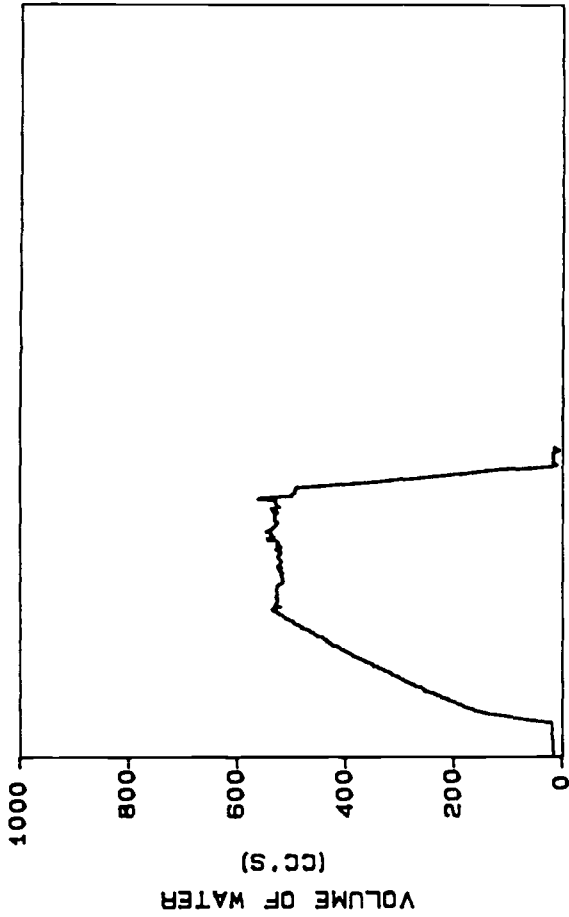


ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC25-18
TEST DATE
12/15/91 16:52:50

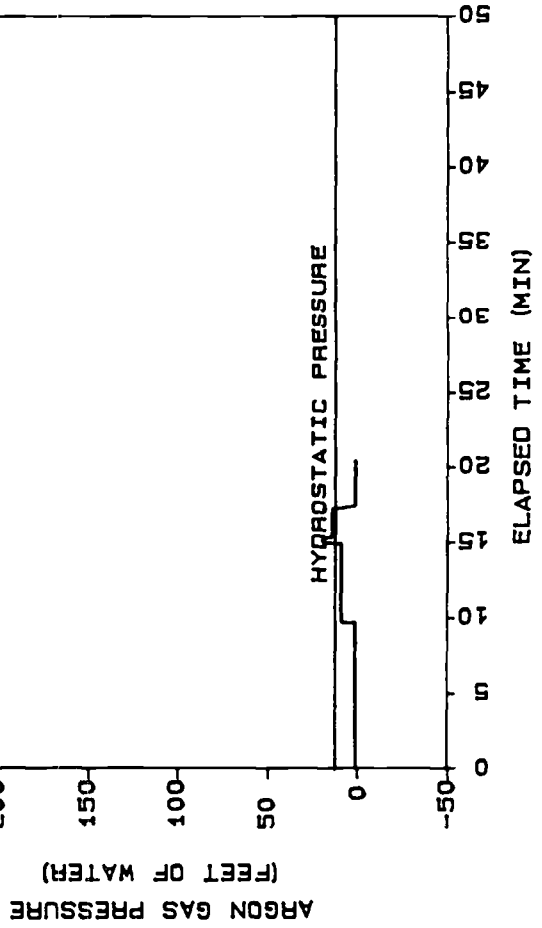
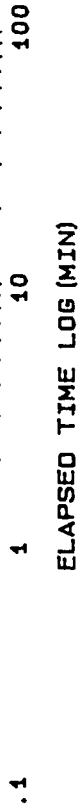
SAMPLE DEPTH (FT) 18
GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



CONDUCTIVITY (K) = .997 FEET PER DAY
1.40M10-4 CM/SEC

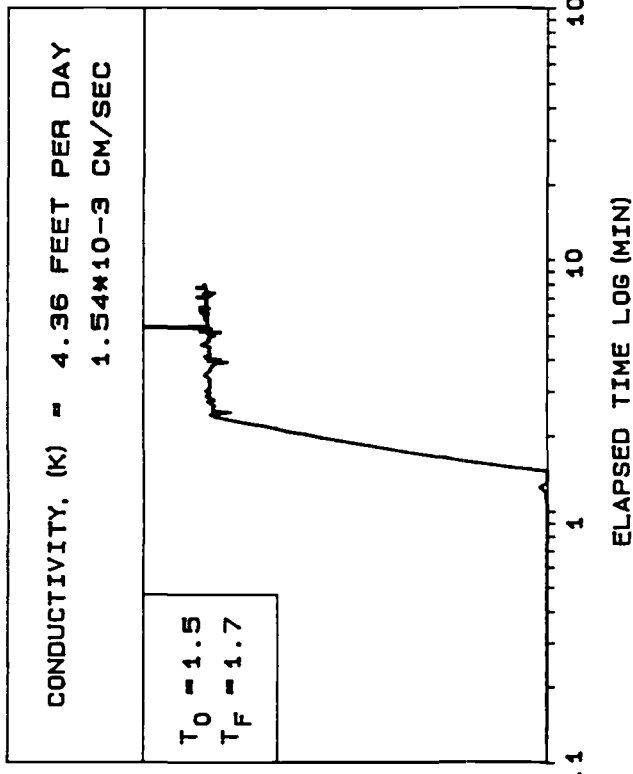
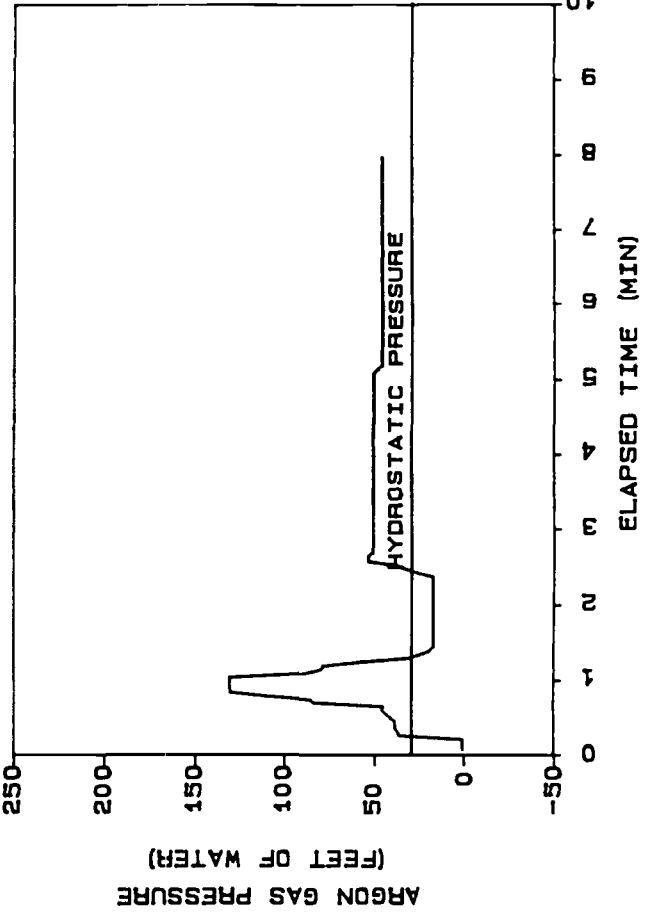
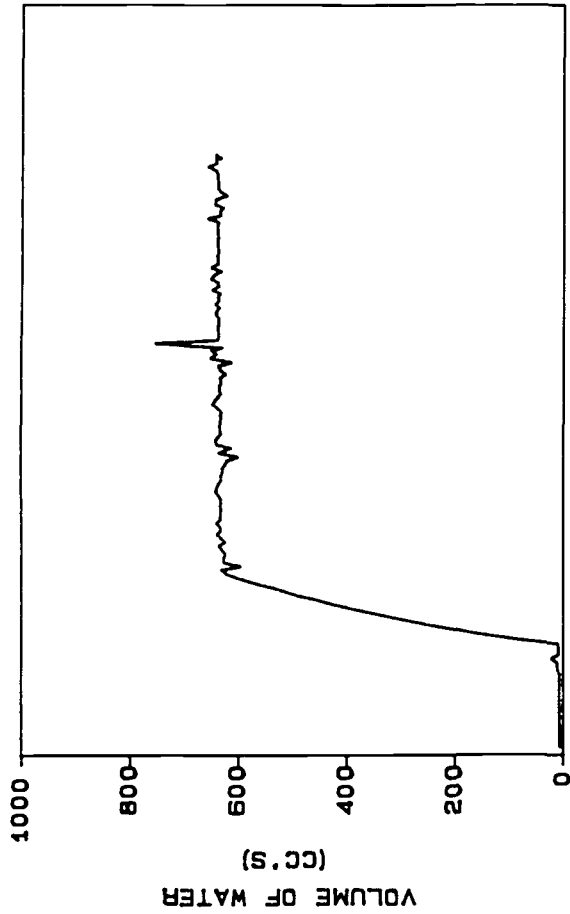
T₀ = 3
T_F = 4



HYDROSTATIC PRESSURE

ABC CLEANERS
LOCATION... HC25-27
TEST DATE
12/16/91 08:42:12
SAMPLE DEPTH (FT) 27
GROUNDWATER DEPTH (FT) 16

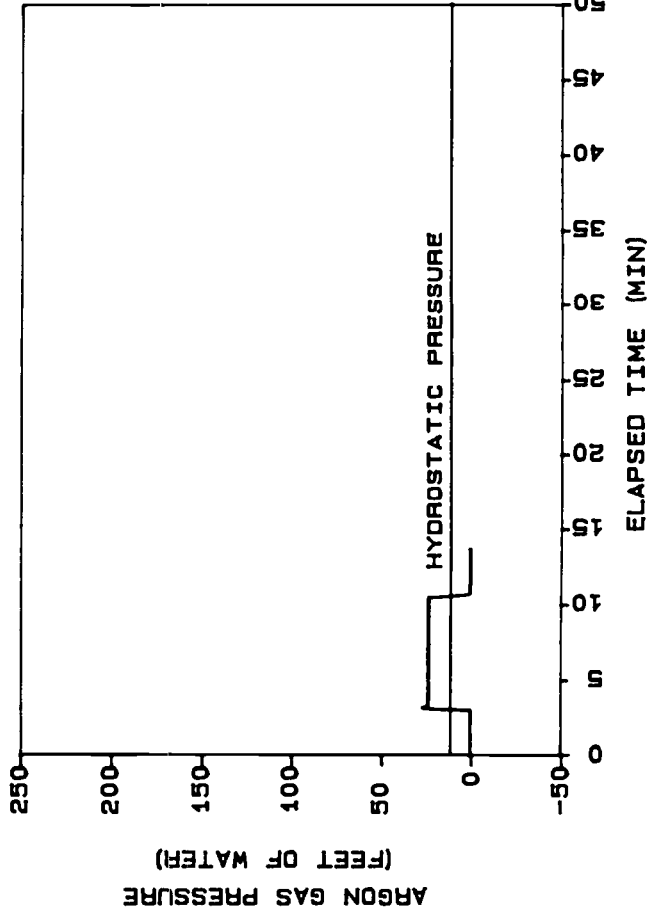
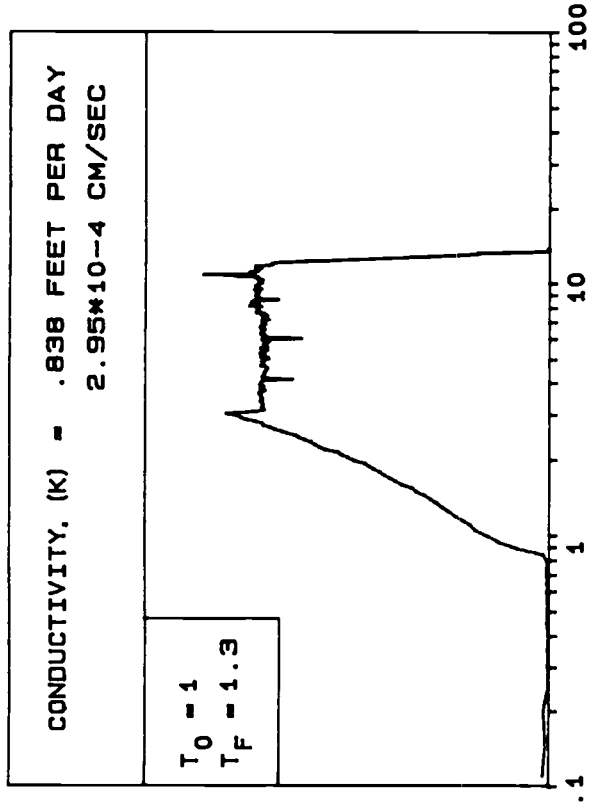
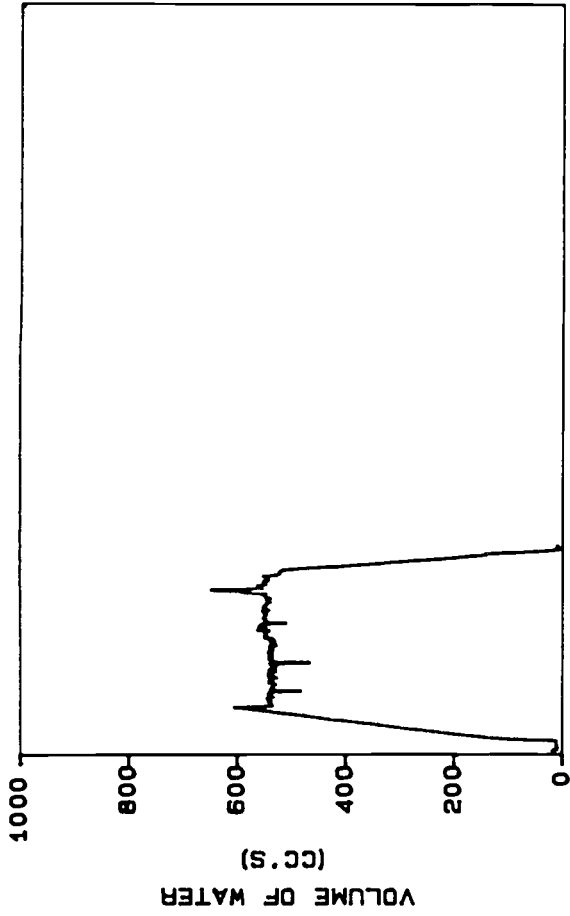
HYDROCONE TEST



$T_0 = 1.5$
 $T_F = 1.7$

ABC CLEANERS
 LOCATION... HC26-42
 TEST DATE
 12/15/91 10: 42: 27
 SAMPLE DEPTH (FT) 42
 GROUNDWATER DEPTH (FT) 14

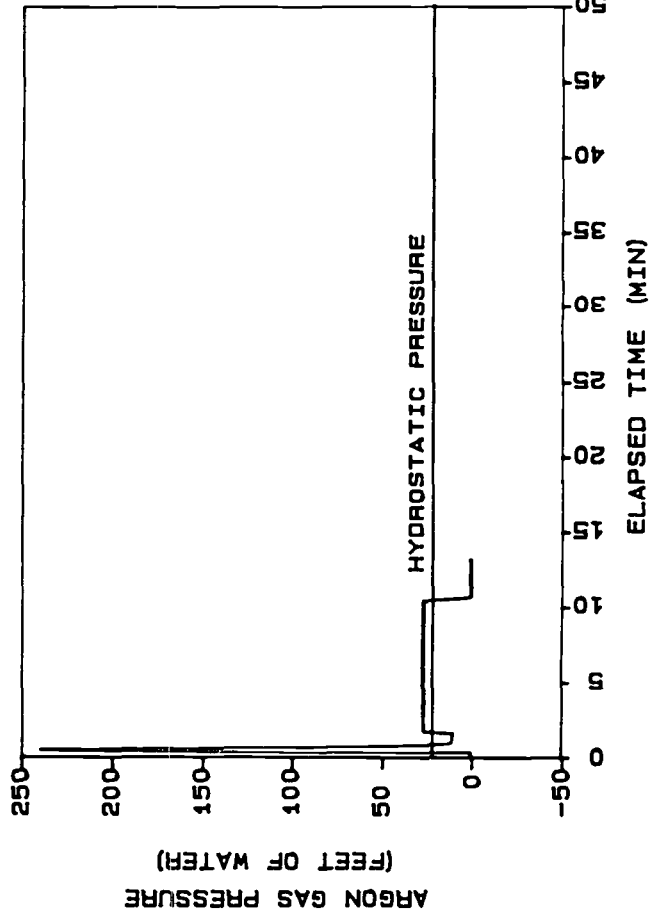
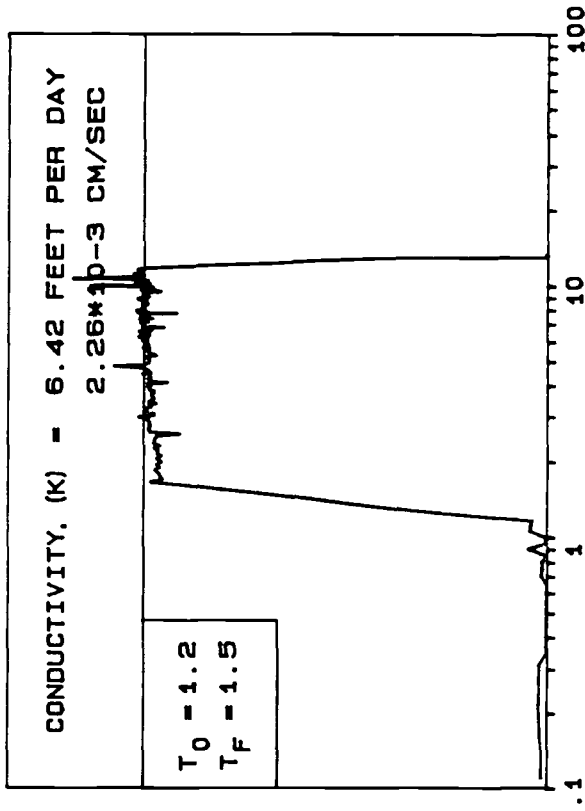
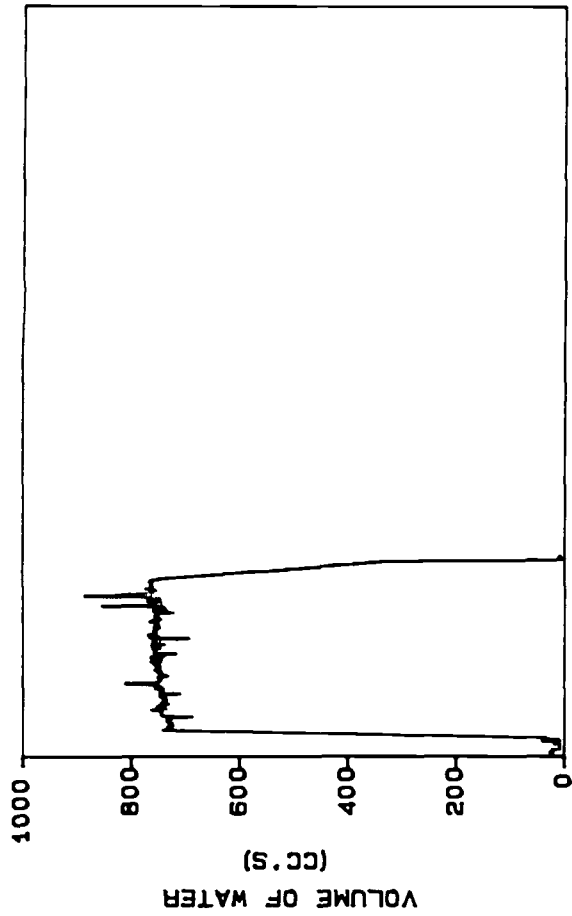
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

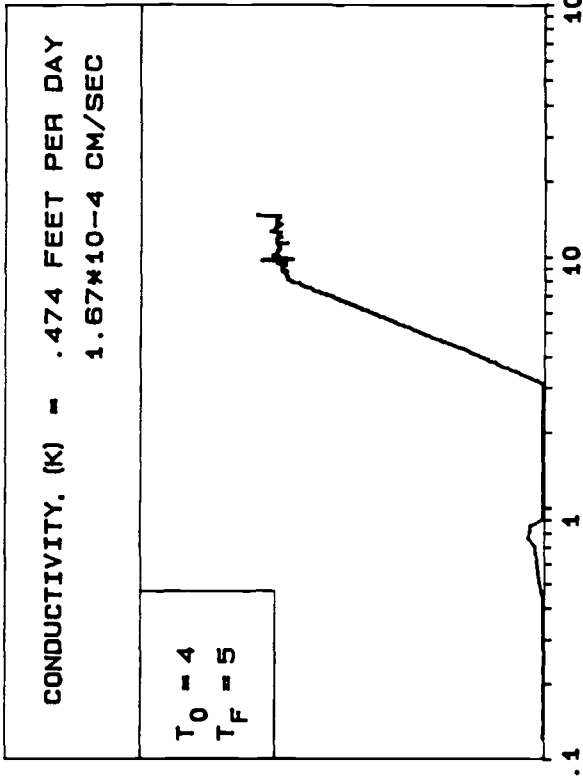
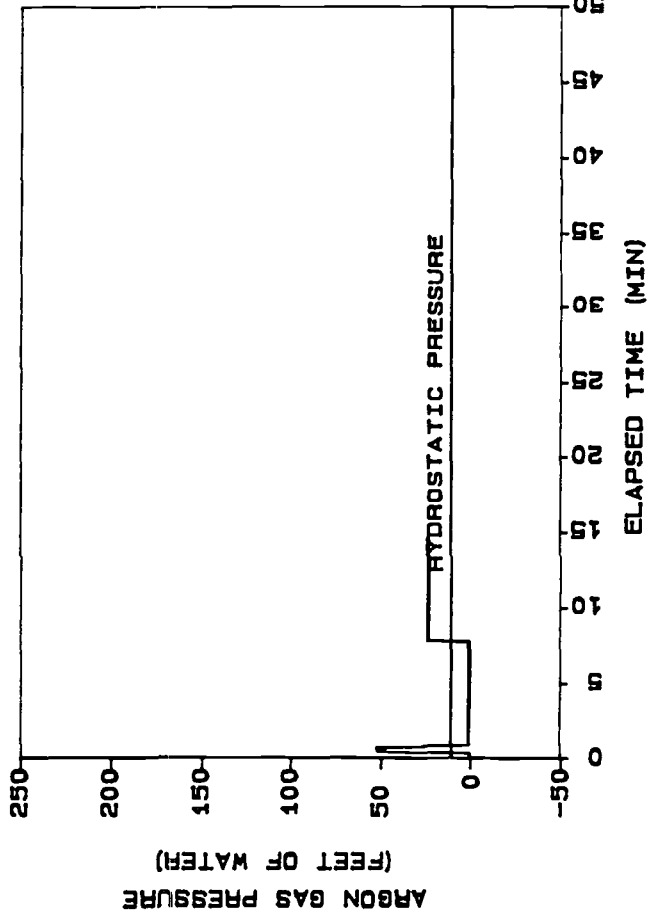
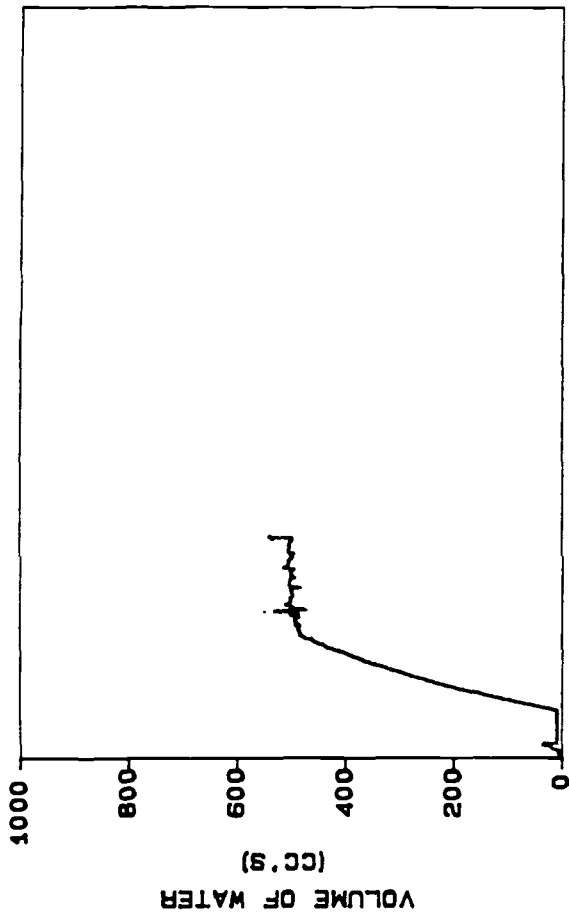
ABC CLEANERS
 LOCATION... HC27-27
 TEST DATE
 12/16/91 11:03:55
 SAMPLE DEPTH (FT) 27
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC27-37.5
 TEST DATE
 12/16/91 10: 27: 59
 SAMPLE DEPTH (FT) 37.5
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST

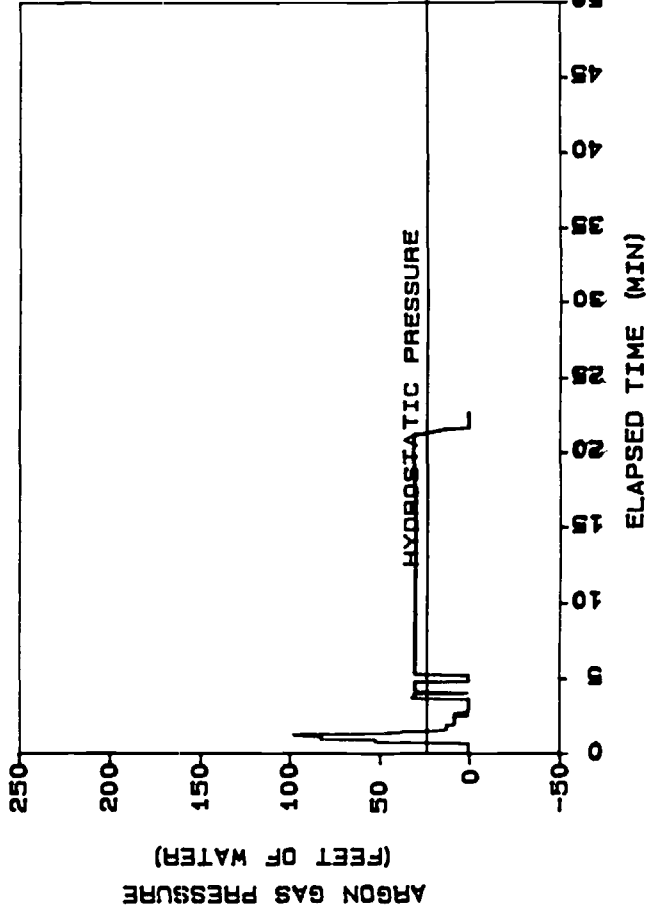
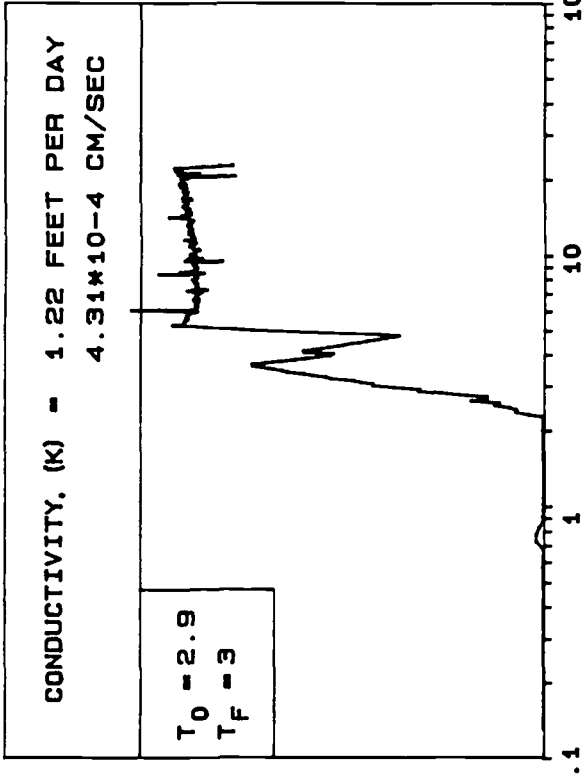
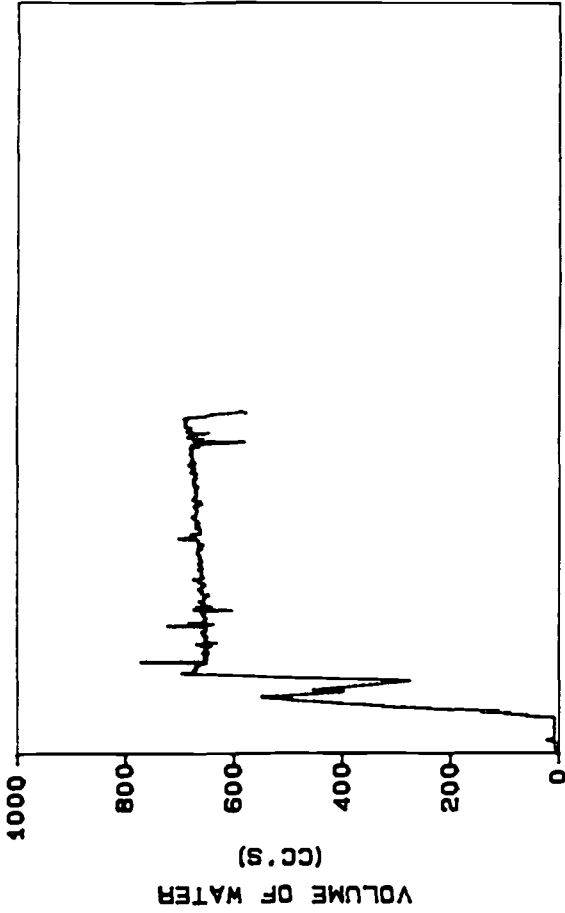


$T_0 = 4$
 $T_F = 5$

ELAPSED TIME LOG (MIN)

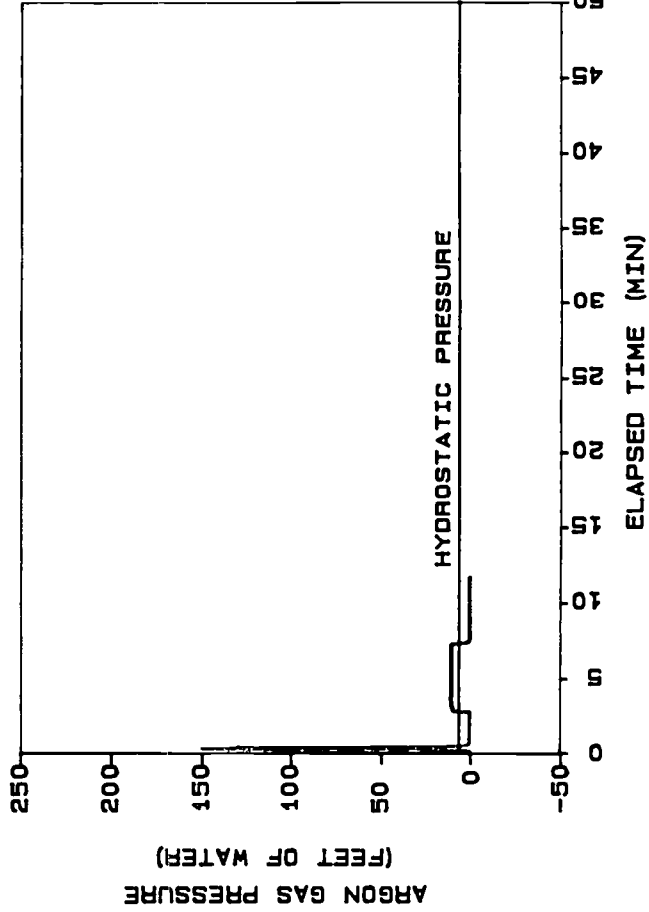
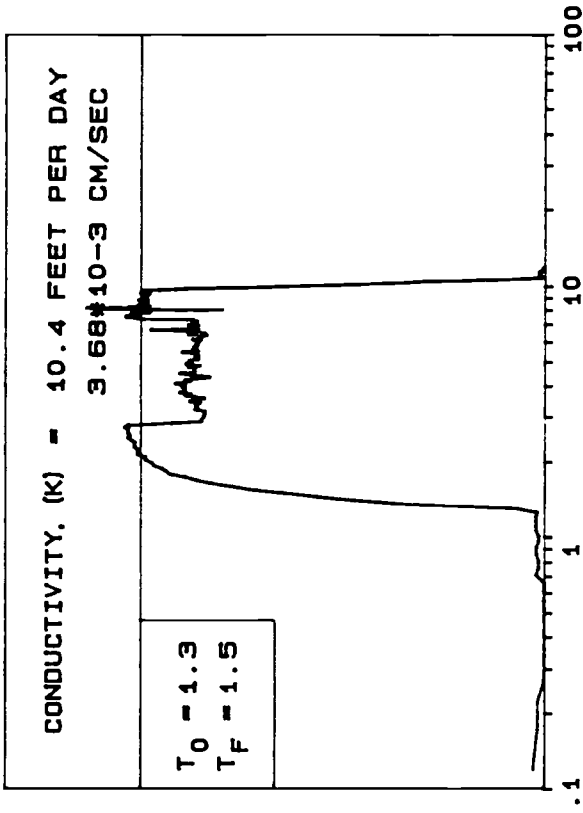
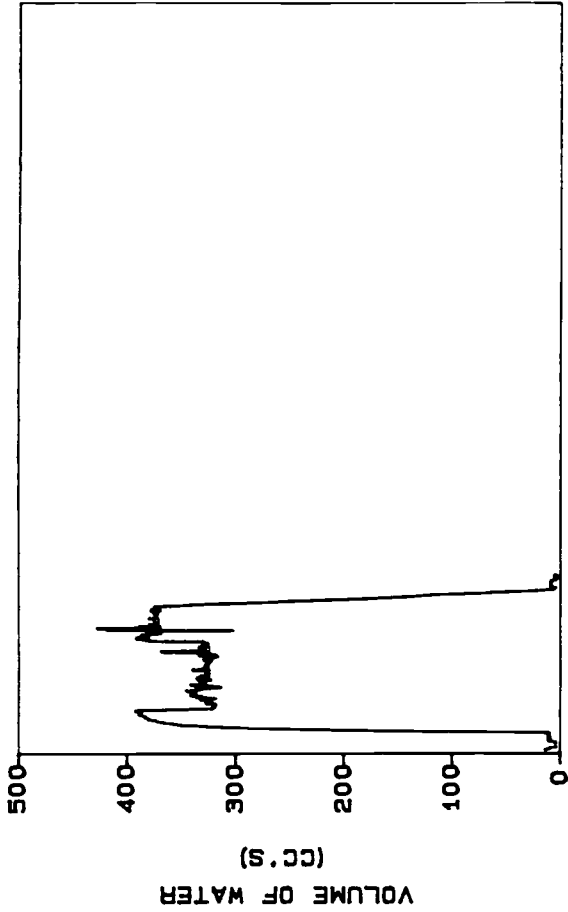
ABC CLEANERS
LOCATION... HC28-28
TEST DATE
12/15/91 13:03:27
SAMPLE DEPTH (FT) 28
GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
LOCATION... HC28--41
TEST DATE
12/15/91 14:05:42
SAMPLE DEPTH (FT) 41
GROUNDWATER DEPTH (FT) 18

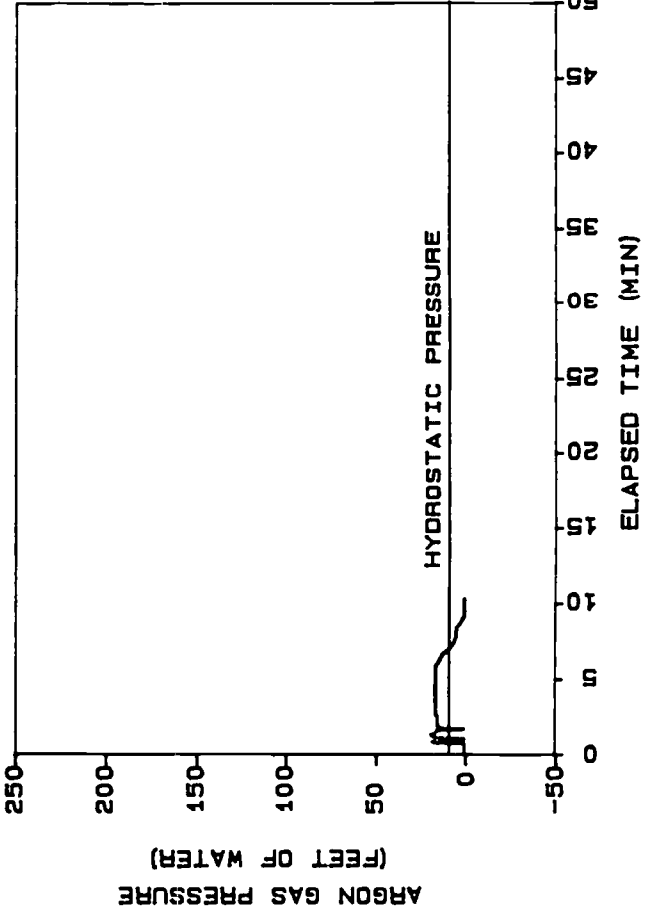
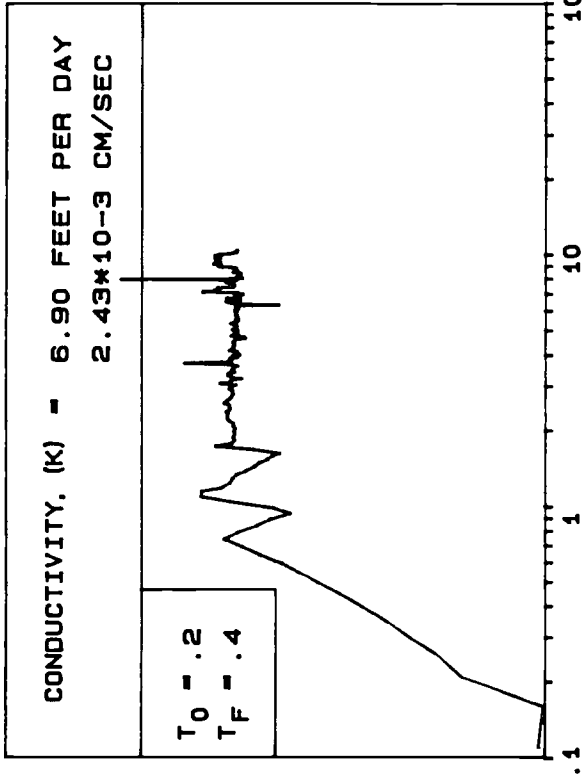
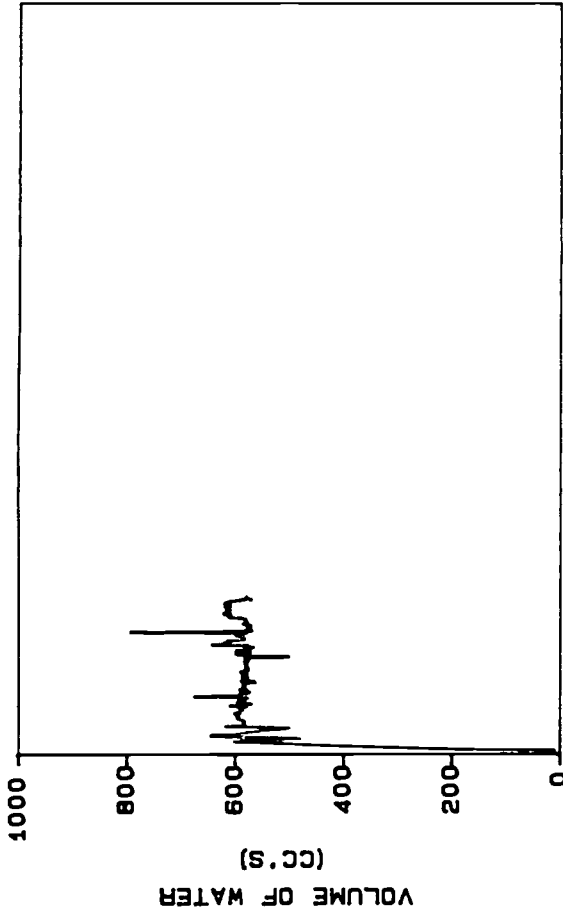
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC29-23
 TEST DATE
 12/16/91 14:01:37
 SAMPLE DEPTH (FT) 23
 GROUNDWATER DEPTH (FT) 17

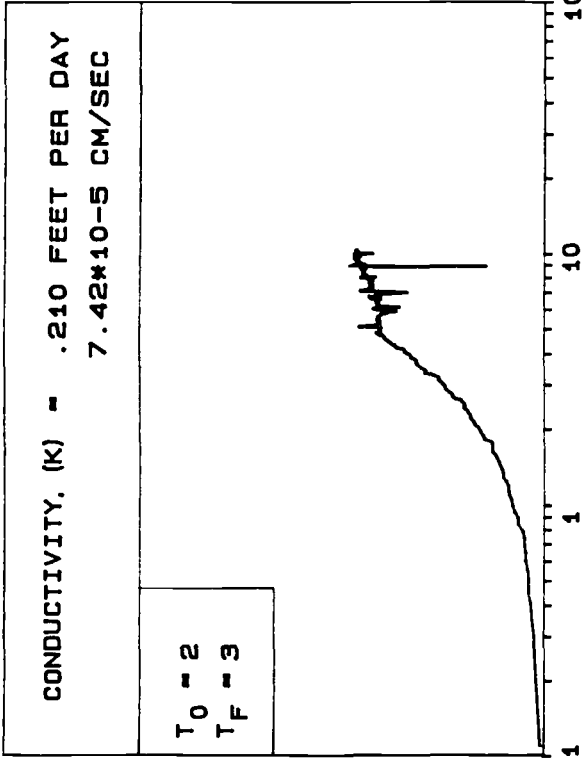
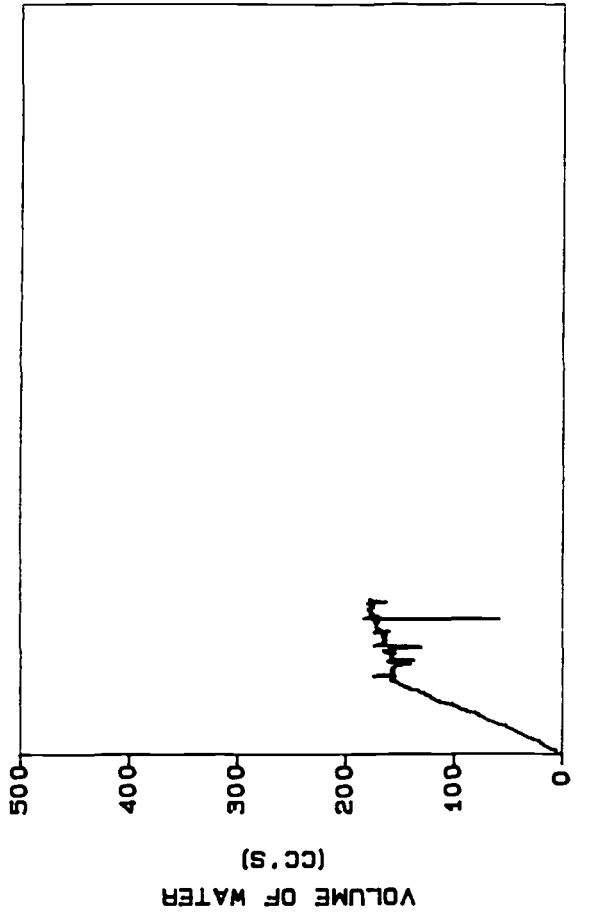
HYDROCONE TEST



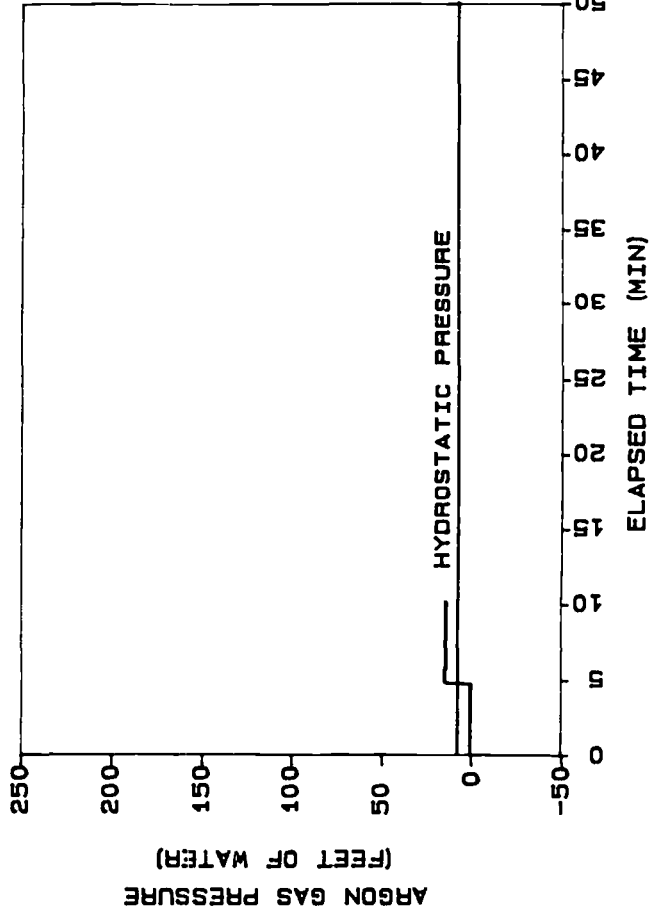
ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC29-26.5
 TEST DATE
 12/16/91 12: 29: 58
 SAMPLE DEPTH (FT) 26.5
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



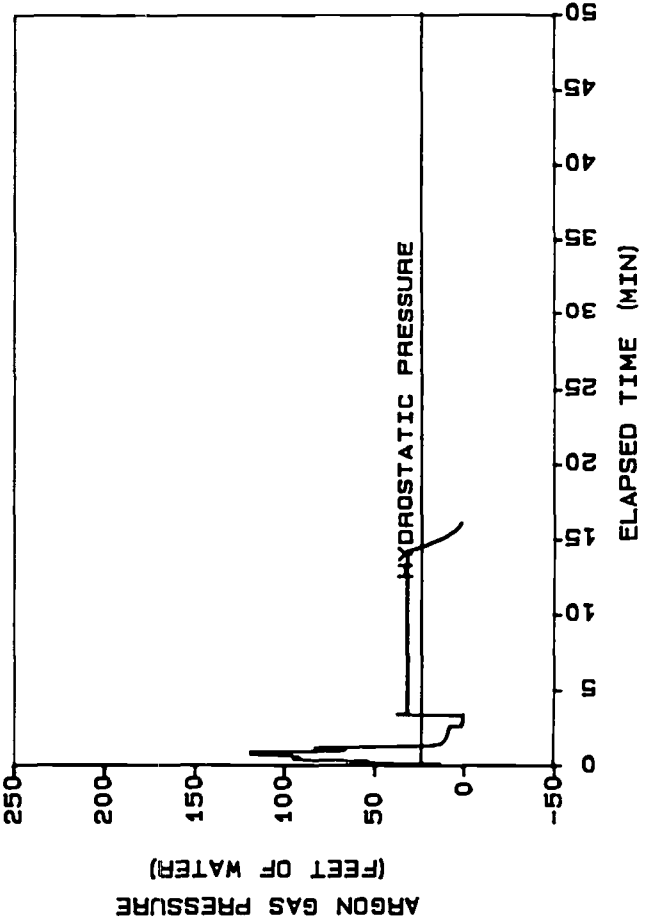
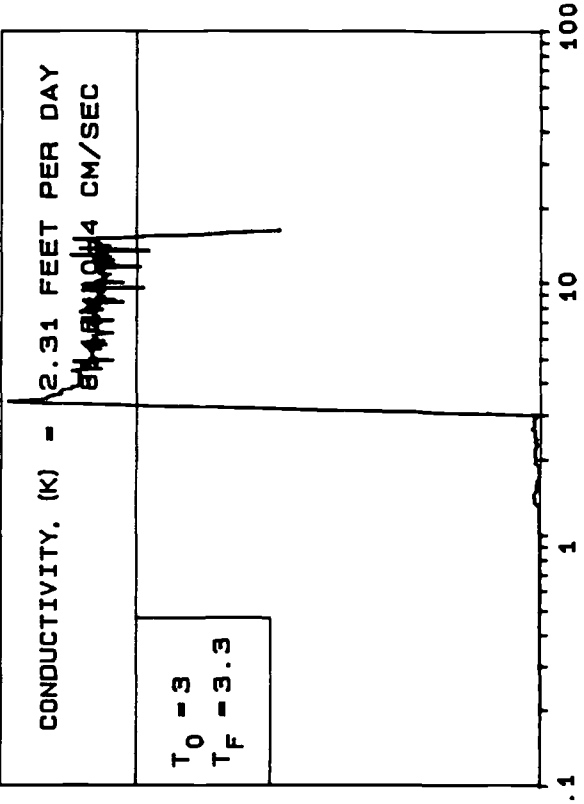
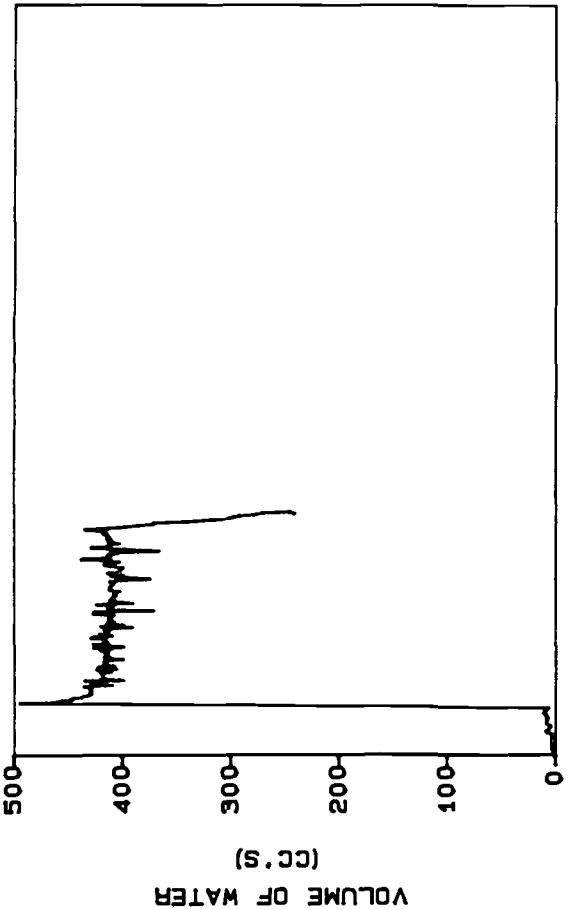
T₀ = 2
T_F = 3



HYDROSTATIC PRESSURE

ABC CLEANERS
LOCATION... HC30--24
TEST DATE
12/16/91 16: 14: 40
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 17

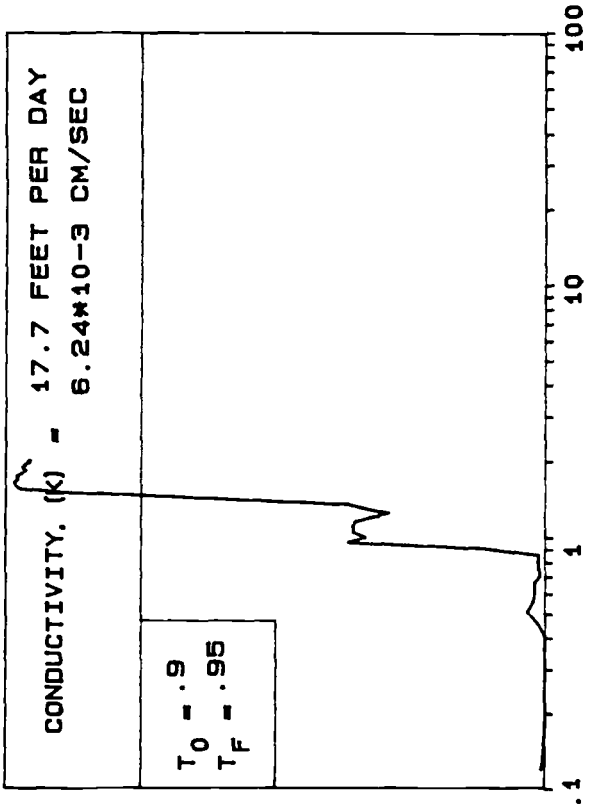
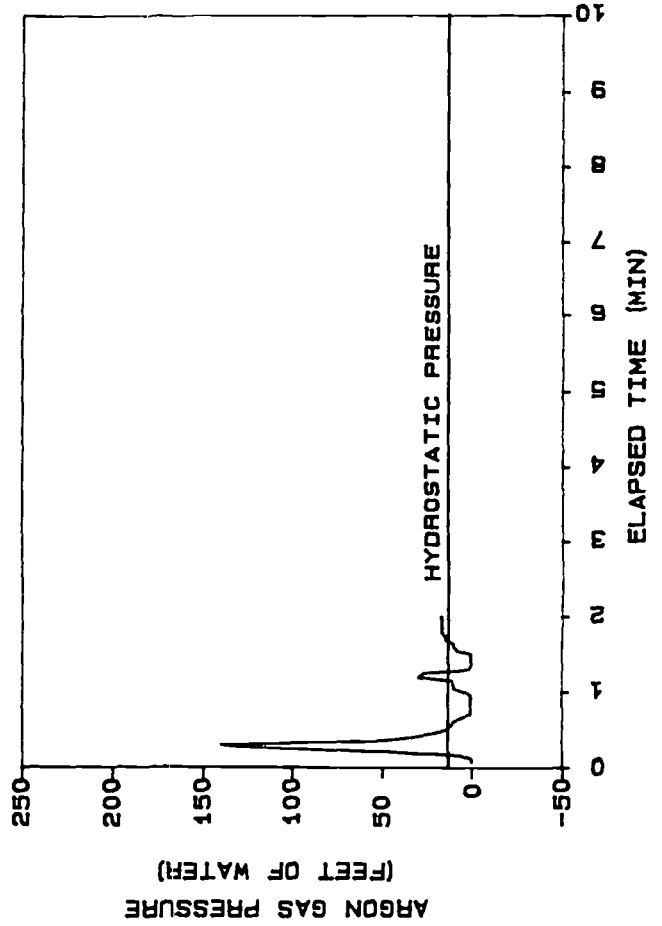
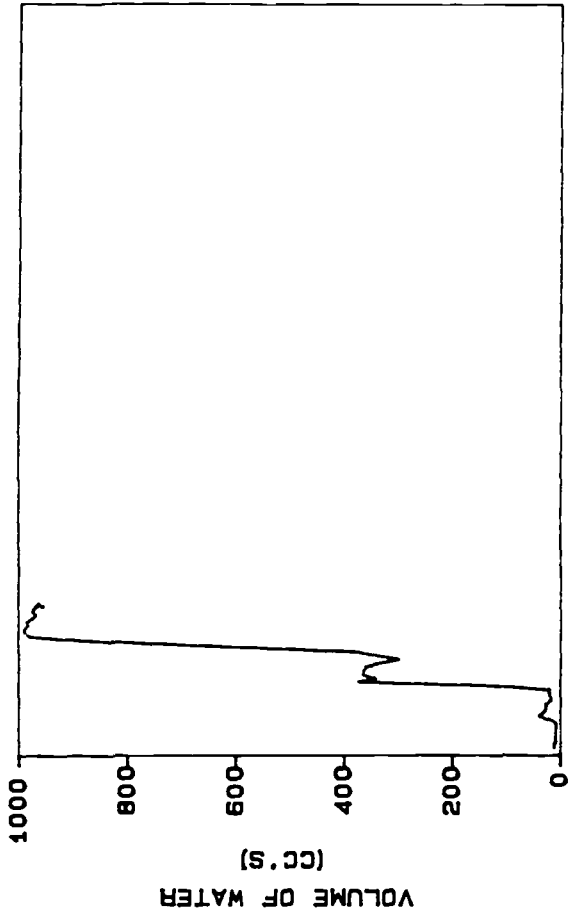
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC30-40
 TEST DATE
 12/15/91 17:15:59
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 17

HYDROCONE TEST

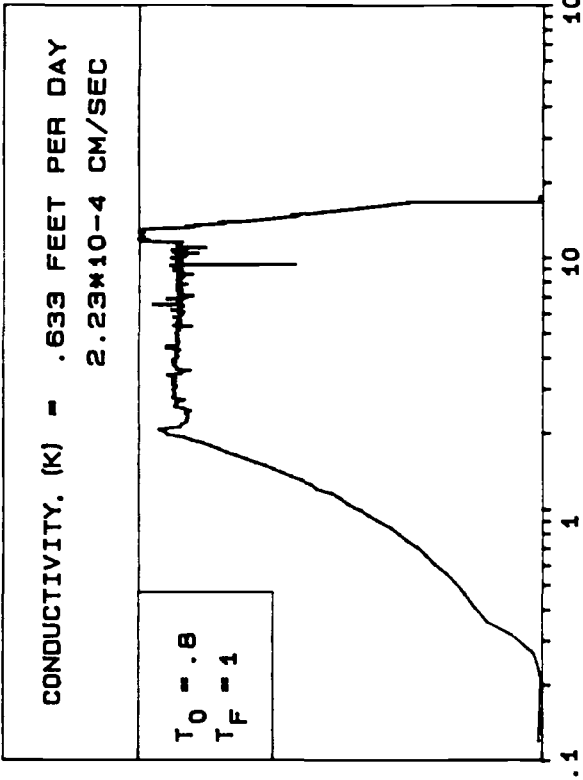
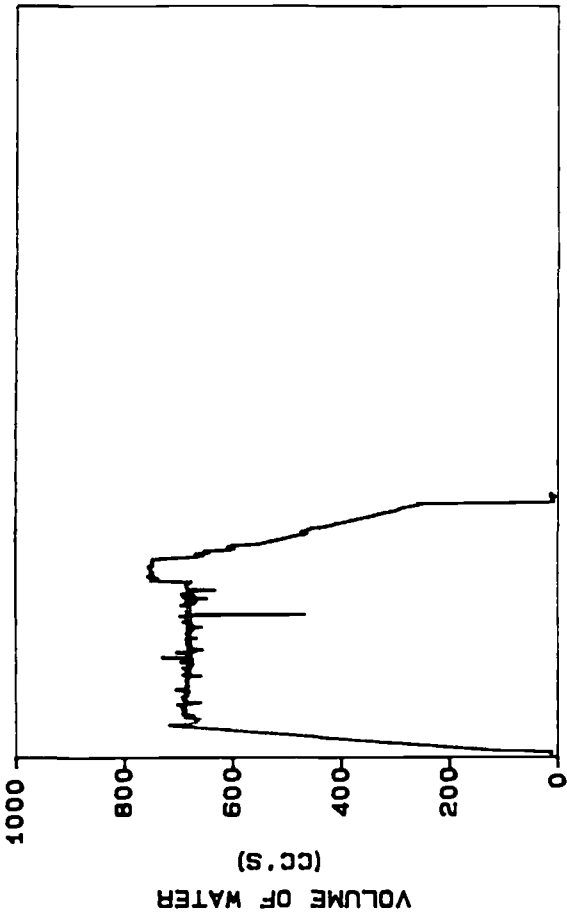


17.7 FEET PER DAY
6.24*10⁻³ CM/SEC

T₀ = .9
T_F = .95

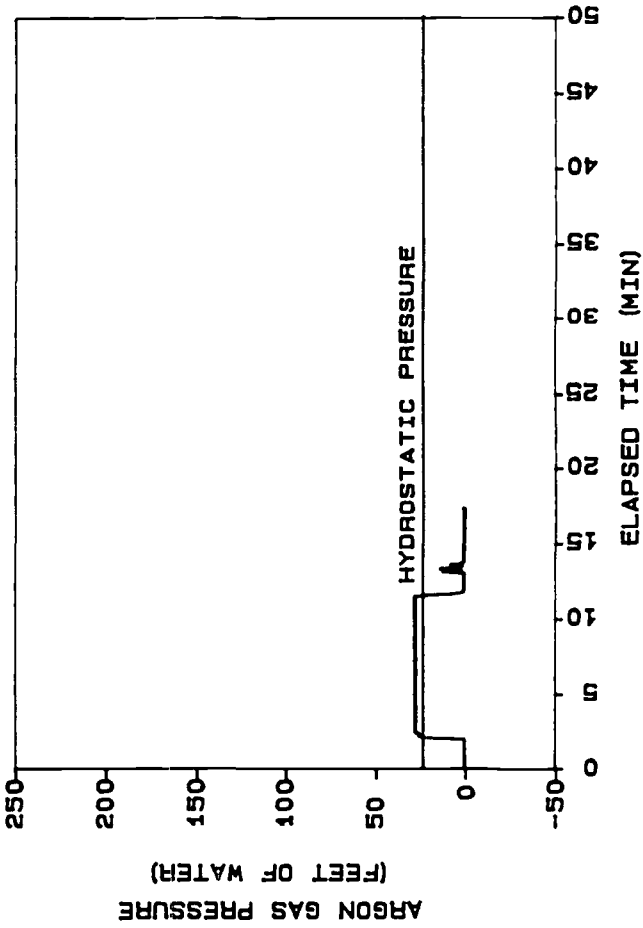
ABC CLEANERS
LOCATION... HC31-29
TEST DATE
12/16/91 15: 04: 56
SAMPLE DEPTH (FT) 29
GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



CONDUCTIVITY (K) = .633 FEET PER DAY
2.23*10⁻⁴ CM/SEC

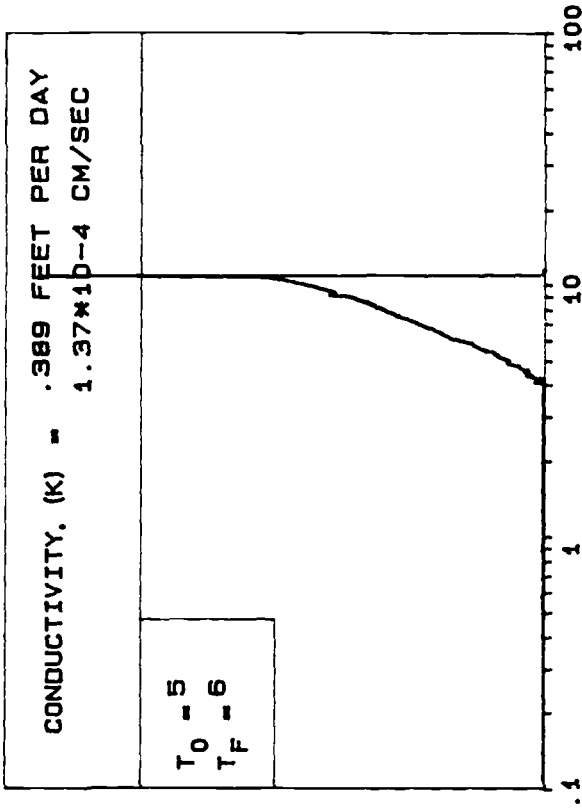
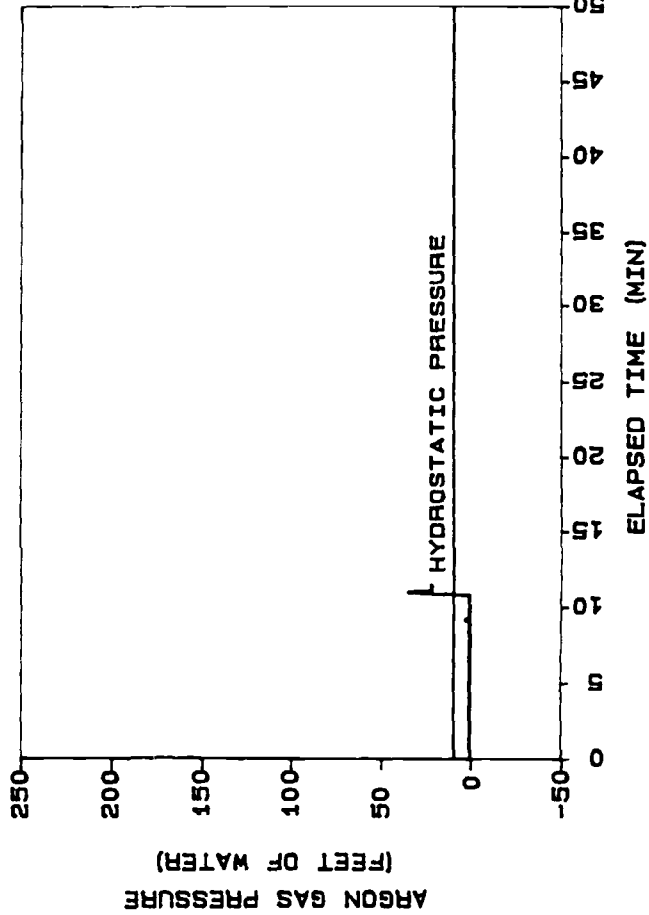
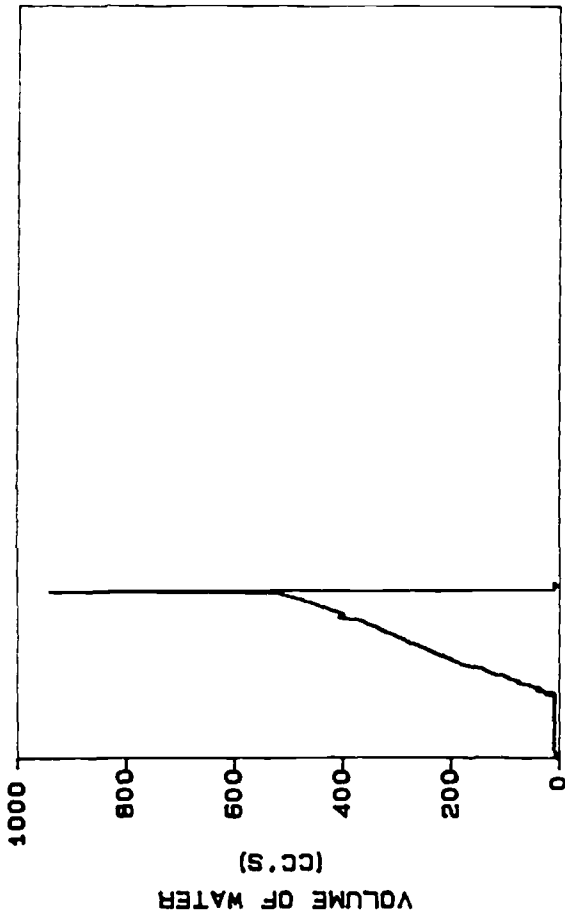
T₀ = .8
T_F = 1



HYDROSTATIC PRESSURE

ABC CLEANERS
LOCATION... HC31-39
TEST DATE
12/16/91 15:38:34
SAMPLE DEPTH (FT) 39
GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



CONDUCTIVITY, (K) = .389 FEET PER DAY
1.37*10⁻⁴ CM/SEC

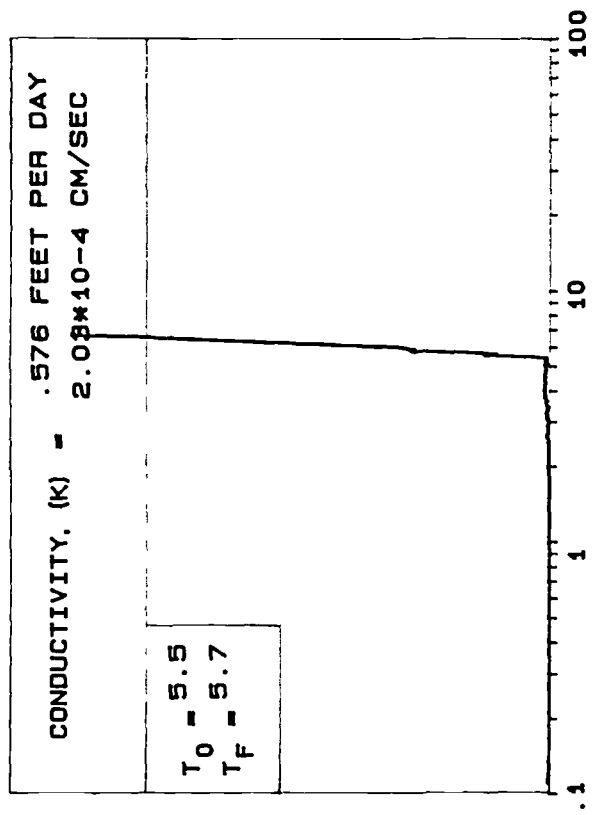
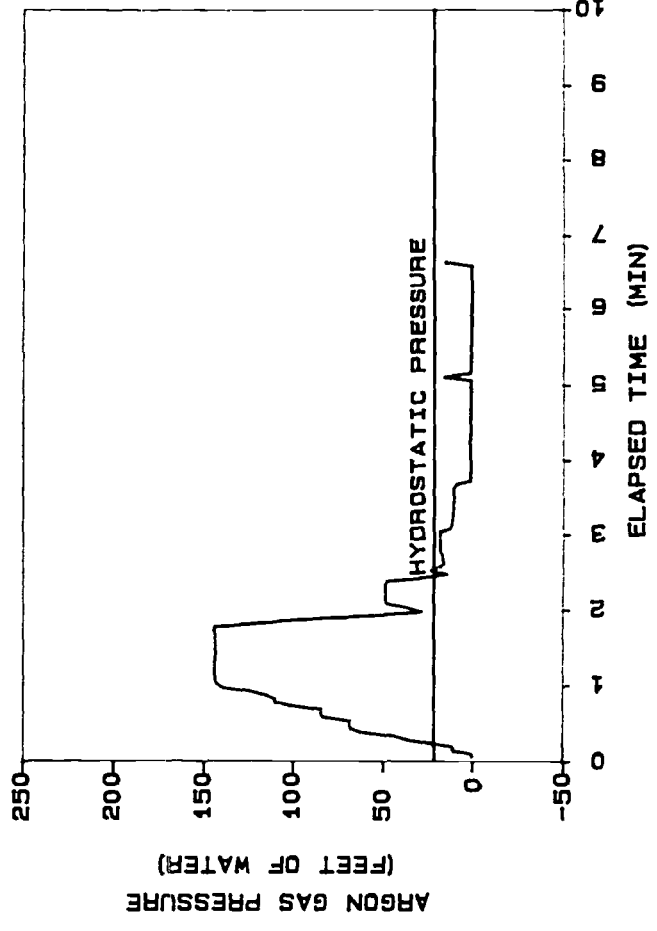
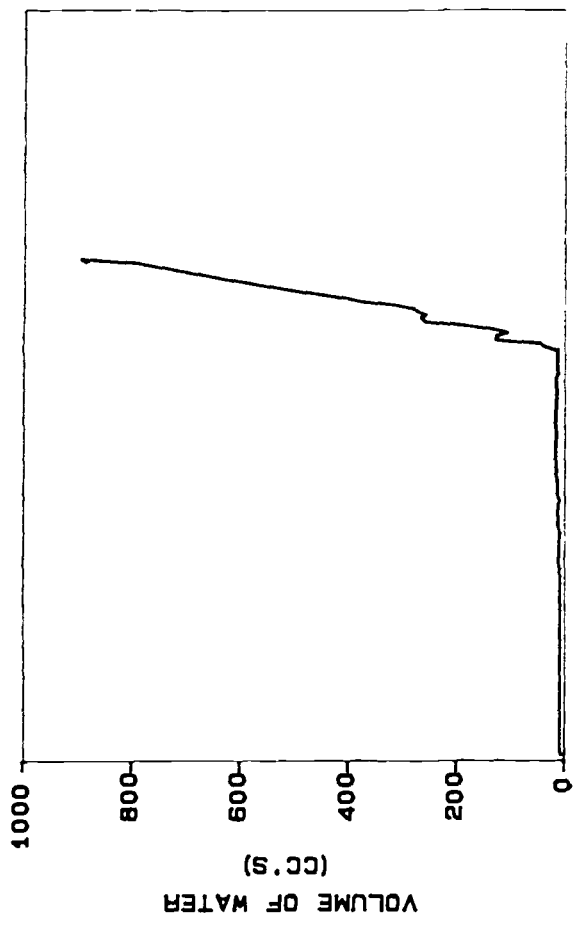
T₀ = 5
T_F = 6

ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC32-26
TEST DATE
12/17/91 13:03:08

SAMPLE DEPTH (FT) 28
GROUNDWATER DEPTH (FT) 17

HYDROPHONE TEST



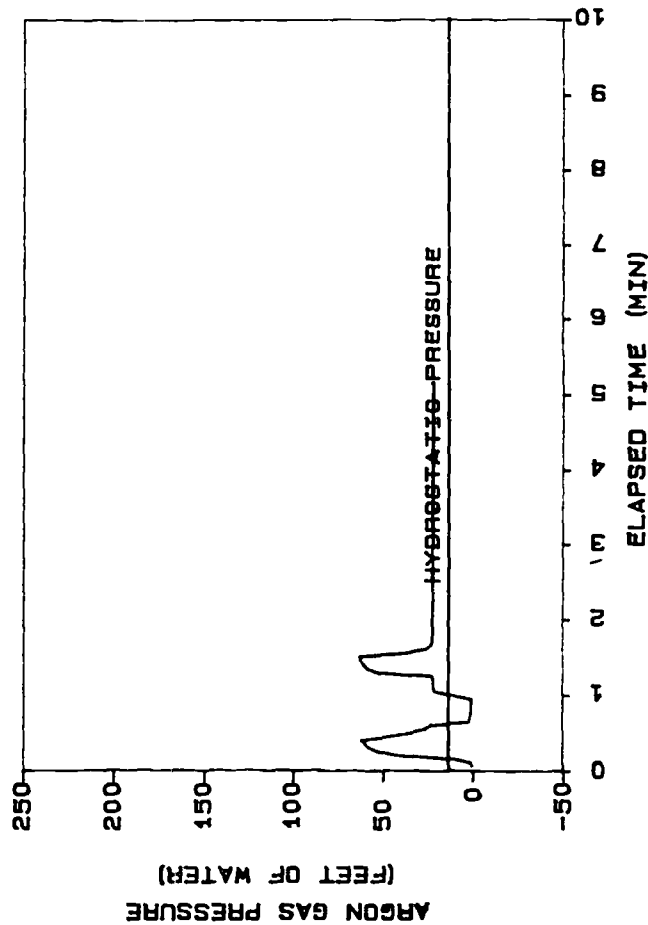
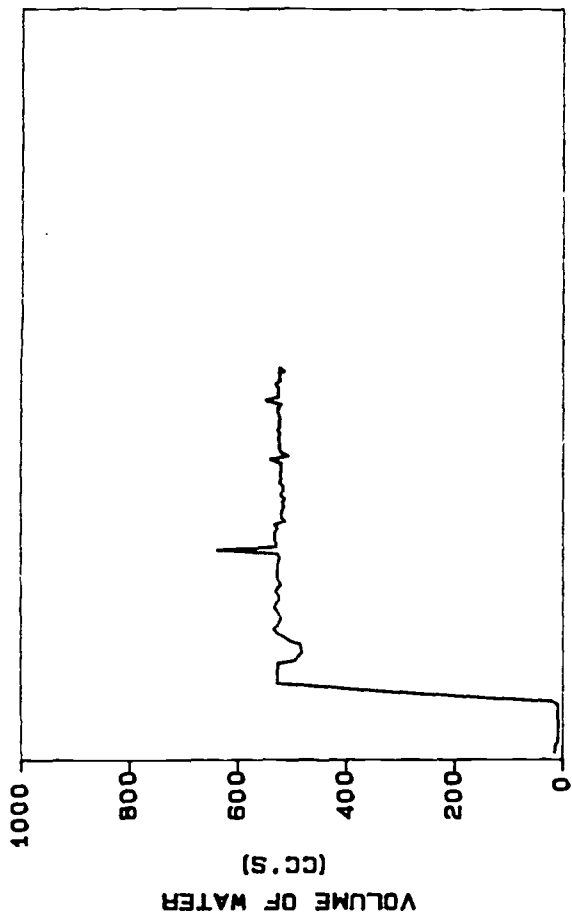
CONDUCTIVITY, (K) - .576 FEET PER DAY
2.08#10-4 CM/SEC

T₀ = 5.5
T_F = 5.7

ELAPSED TIME LOG (MIN)

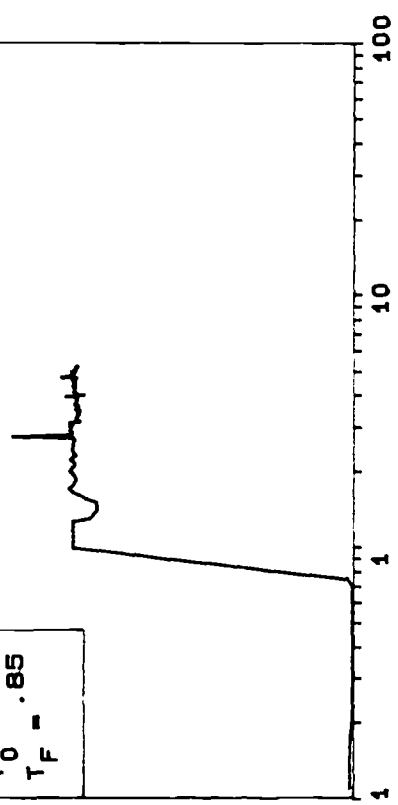
ABC CLEANERS
LOCATION... HC32-38
TEST DATE
12/17/91 12:14:49
SAMPLE DEPTH (FT) 38
GROUNDWATER DEPTH (FT) 17

HYDROCONE TEST



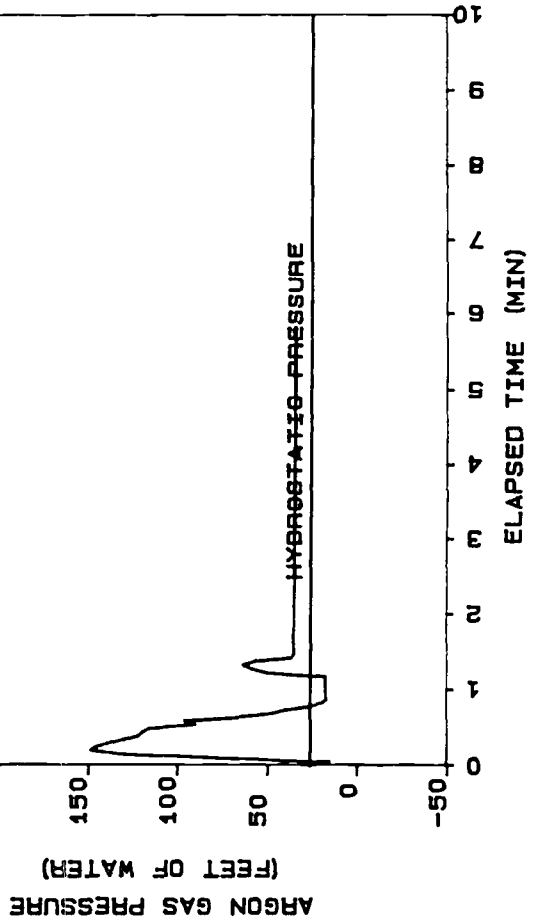
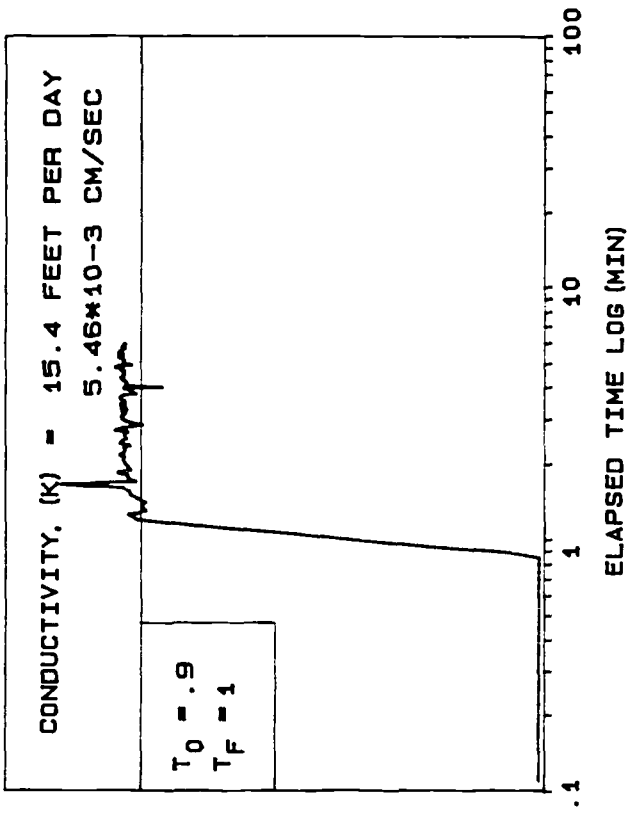
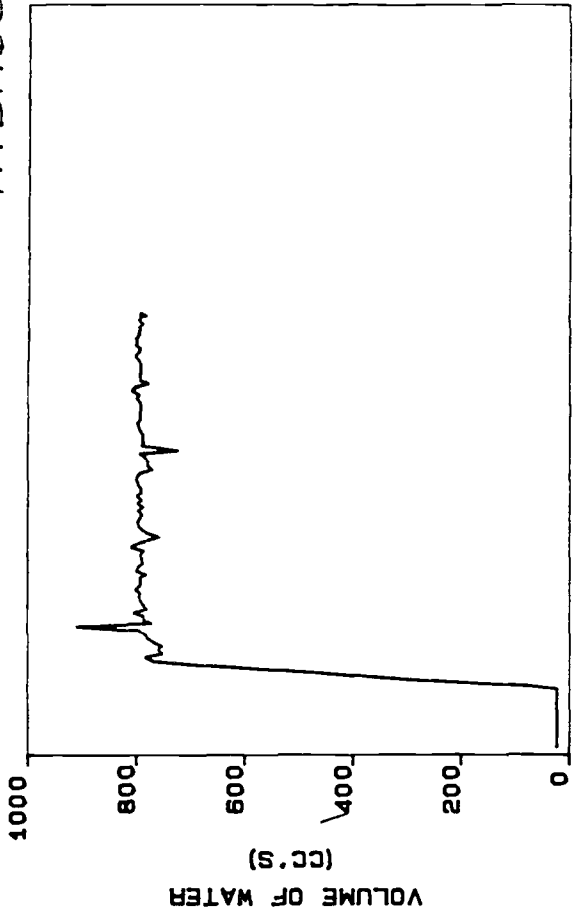
CONDUCTIVITY, (K) = 6.60 FEET PER DAY
 = 2.32*10⁻³ CM/SEC

T₀ = .8
 T_F = .85



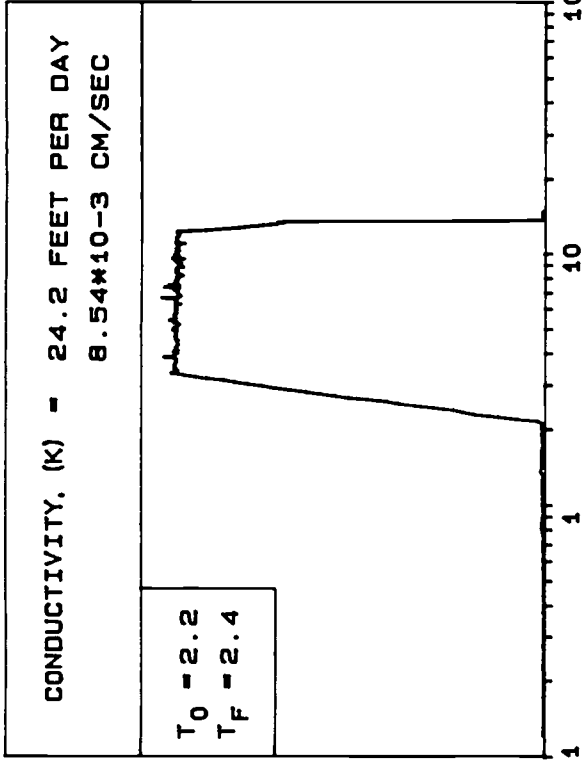
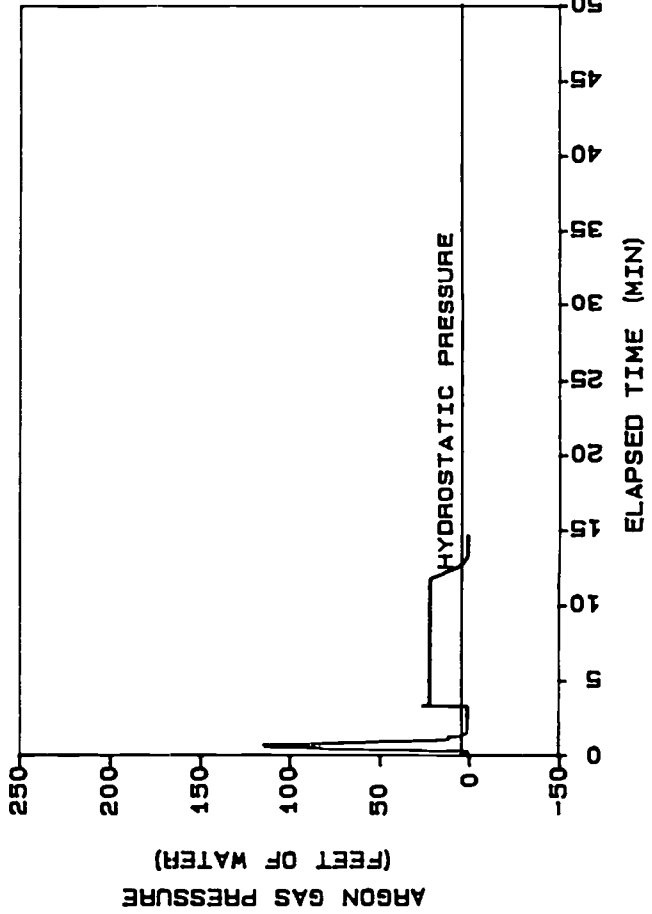
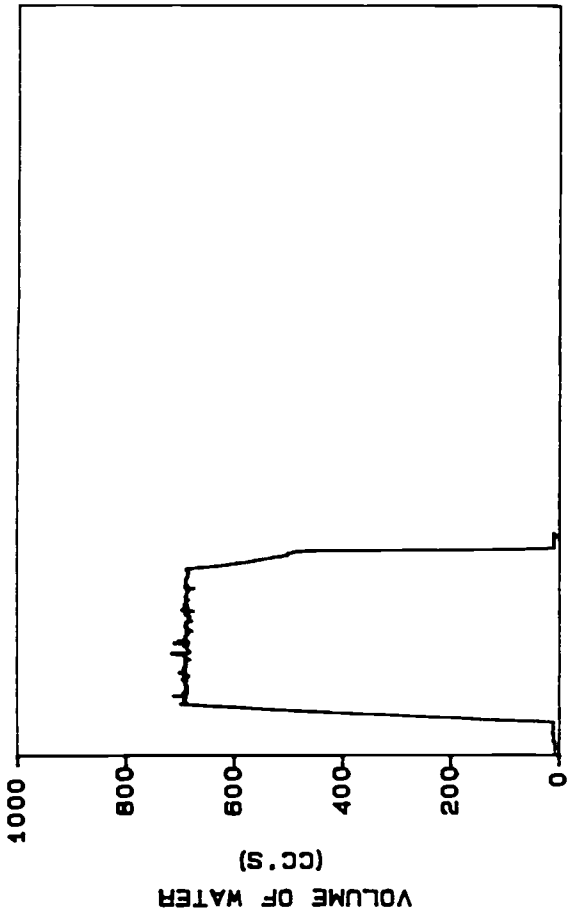
ABC CLEANERS
 LOCATION... HC33-28
 TEST DATE
 12/17/91 13:10:16
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC33-36
 TEST DATE
 12/17/91 12:17:53
 SAMPLE DEPTH (FT) 38
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



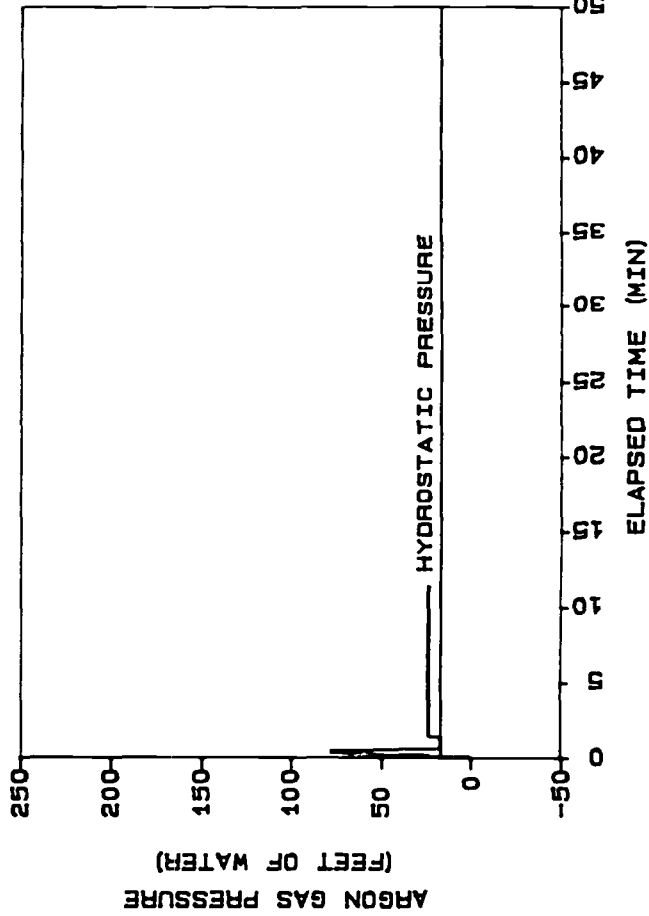
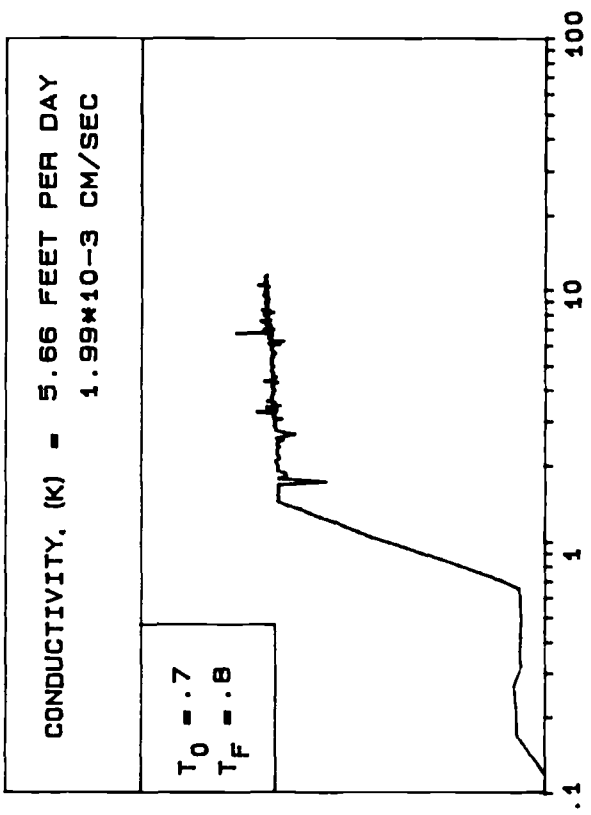
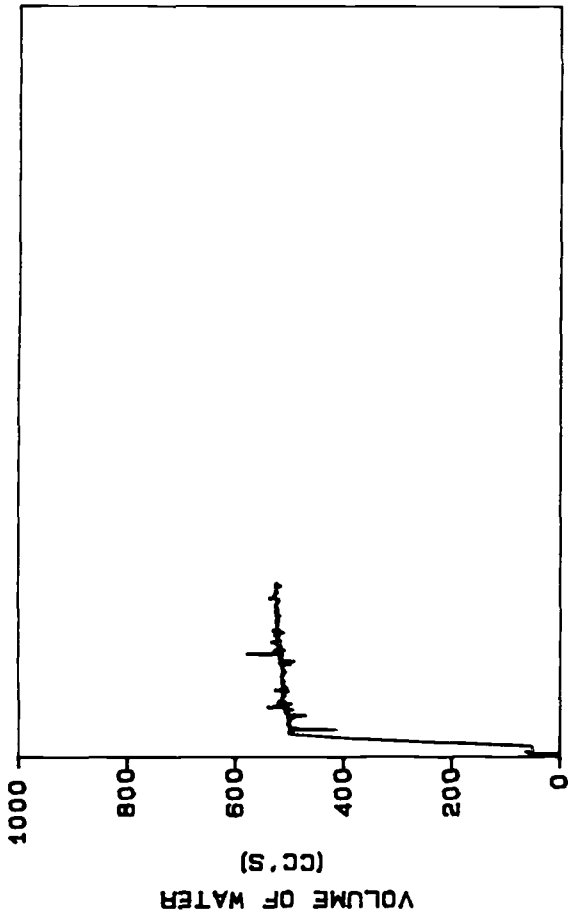
CONDUCTIVITY, (K) = 24.2 FEET PER DAY
8.54*10⁻³ CM/SEC

T₀ = 2.2
T_F = 2.4

ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC34-21.5
TEST DATE
01/01/83 01:55:35
SAMPLE DEPTH (FT) 21.5
GROUNDWATER DEPTH (FT) 18

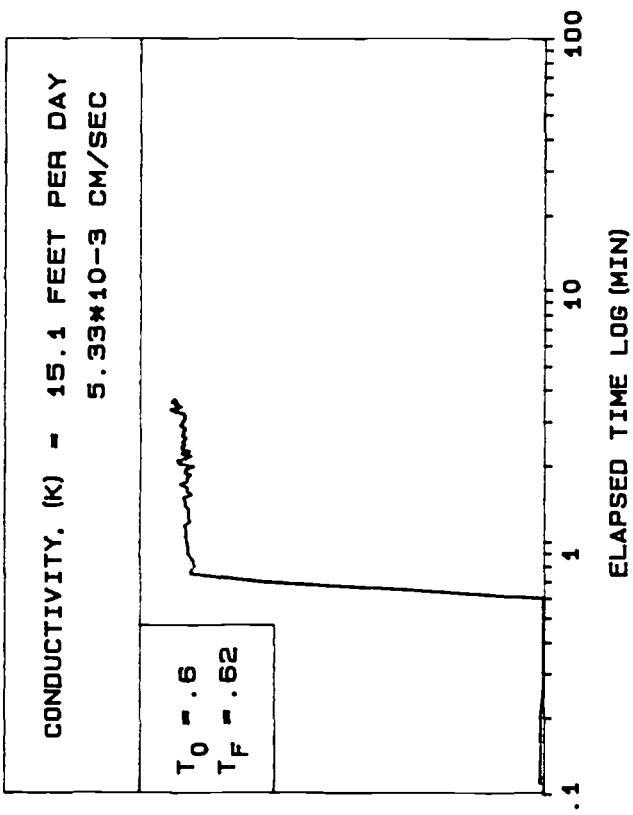
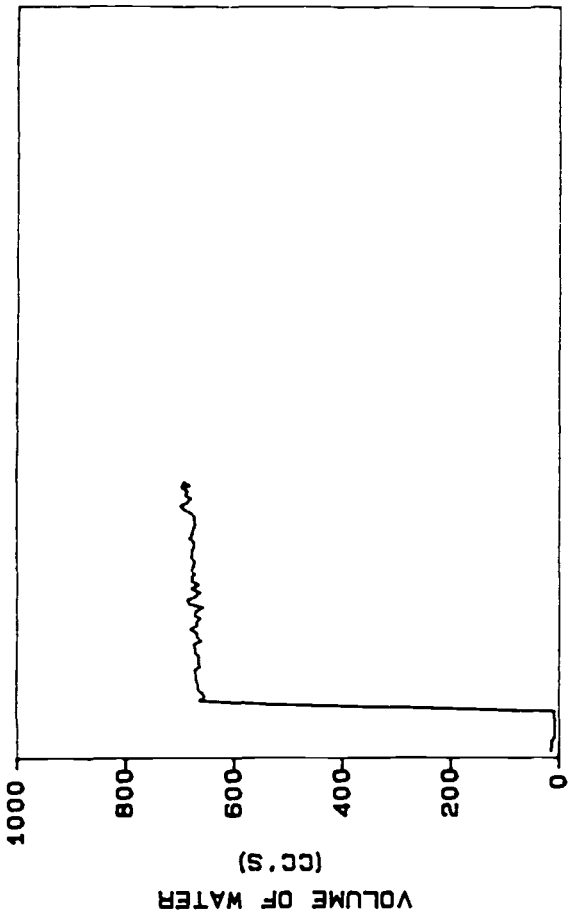
HYDROCONE TEST



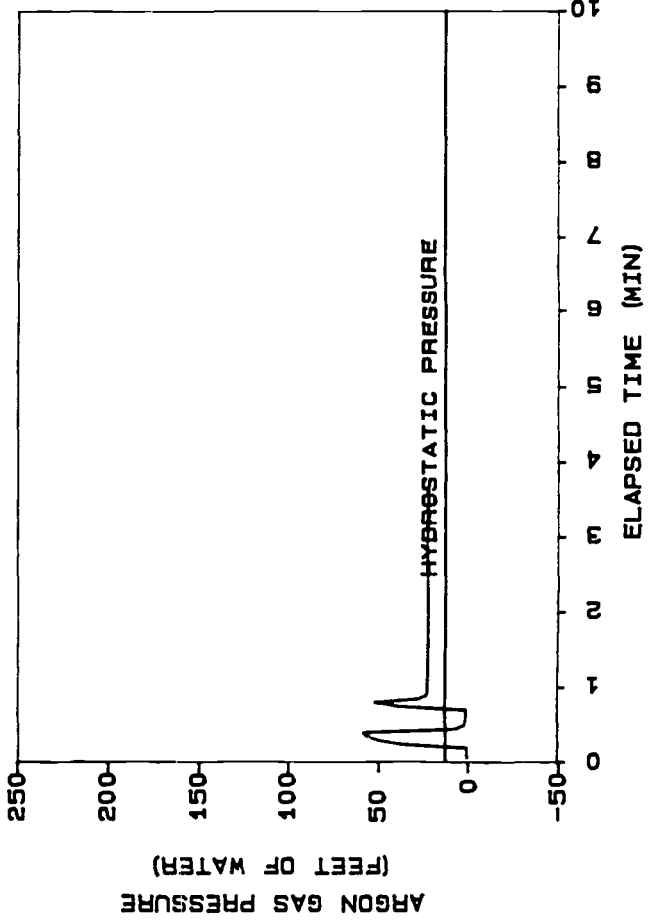
ABC CLEANERS
 LOCATION... HC34-34
 TEST DATE
 01/01/83 01:26:00

SAMPLE DEPTH (FT) 34
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



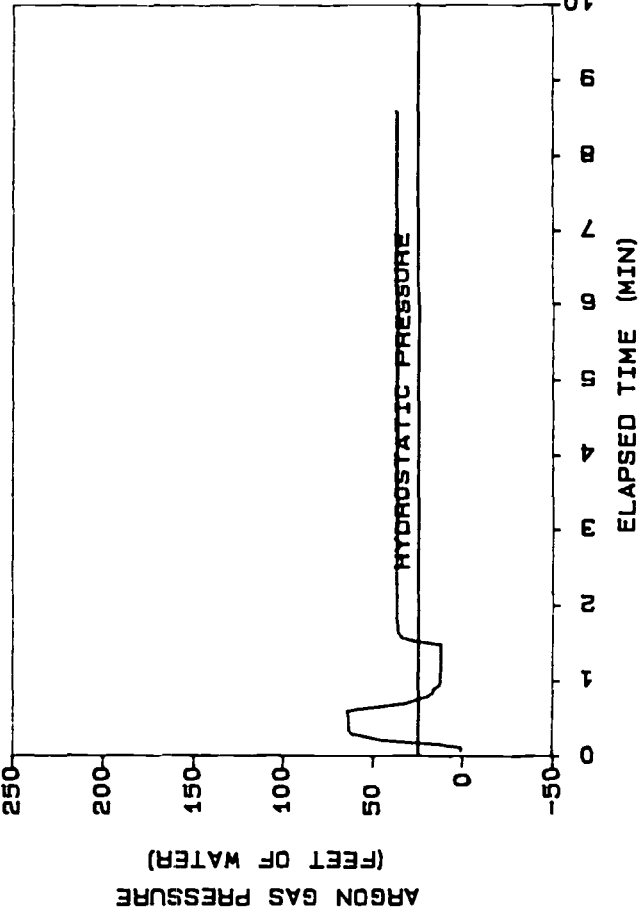
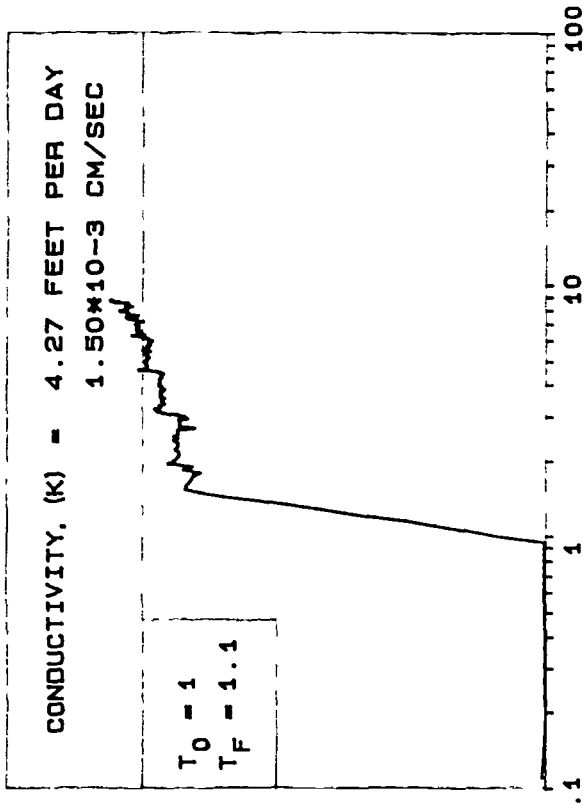
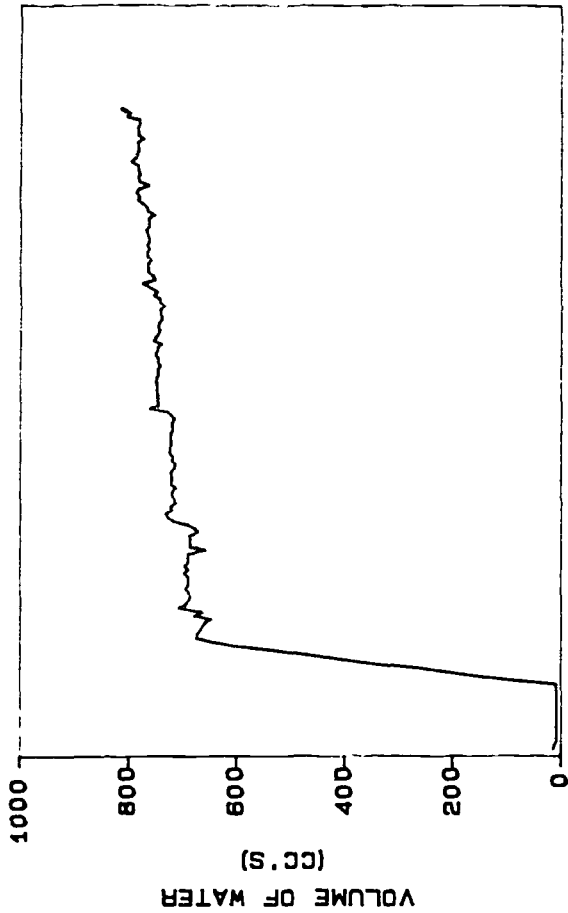
T₀ = .6
T_F = .62



HYDROSTATIC PRESSURE

ABC CLEANERS
LOCATION... HC95-30
TEST DATE
12/17/91 14: 41: 04
SAMPLE DEPTH (FT) 30
GROUNDWATER DEPTH (FT) 18

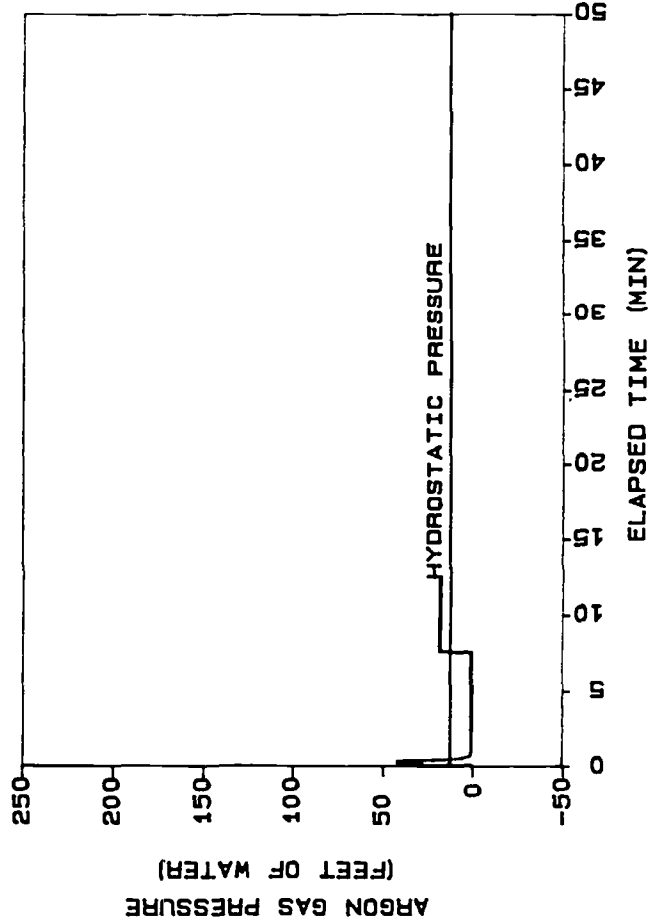
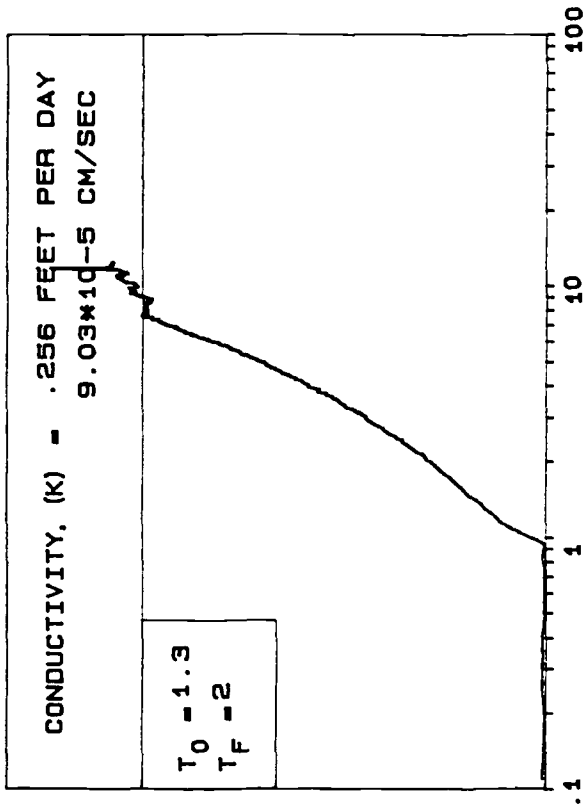
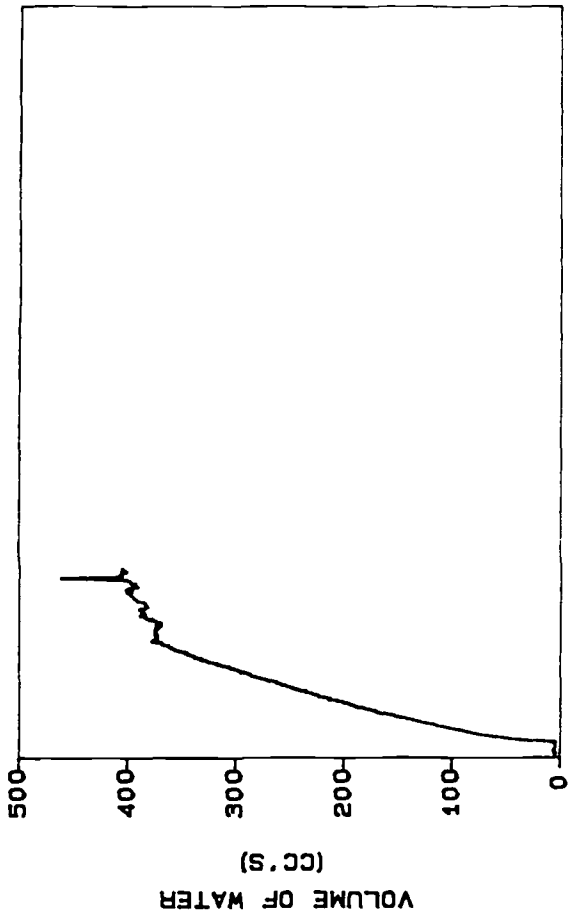
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC35--42
 TEST DATE
 12/17/91 15:19:25
 SAMPLE DEPTH (FT) 42
 GROUNDWATER DEPTH (FT) 18

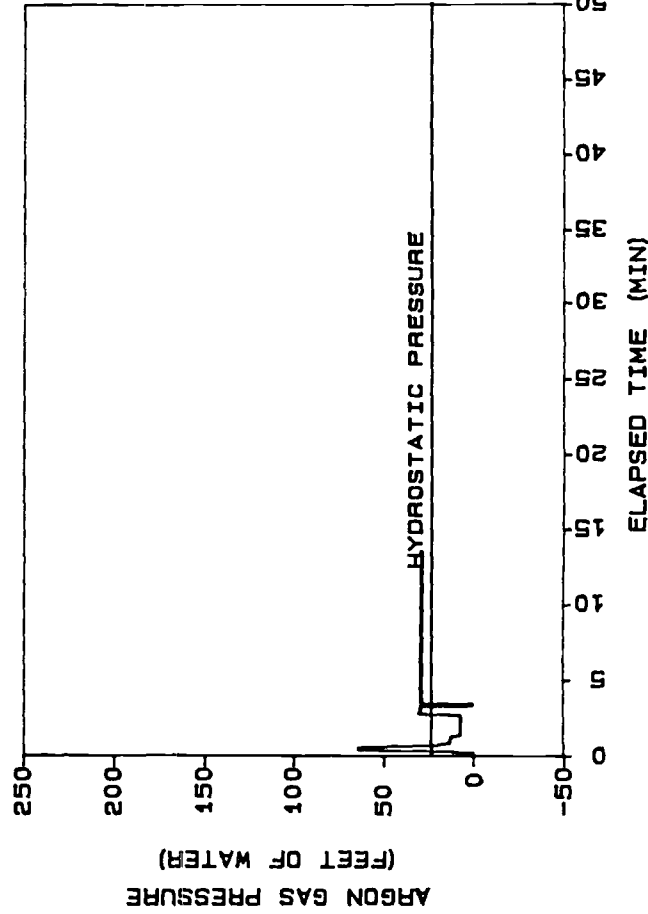
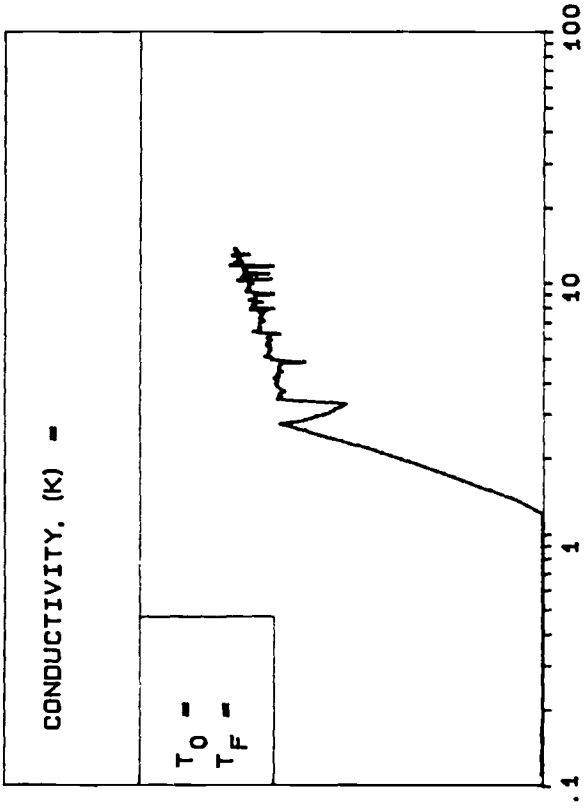
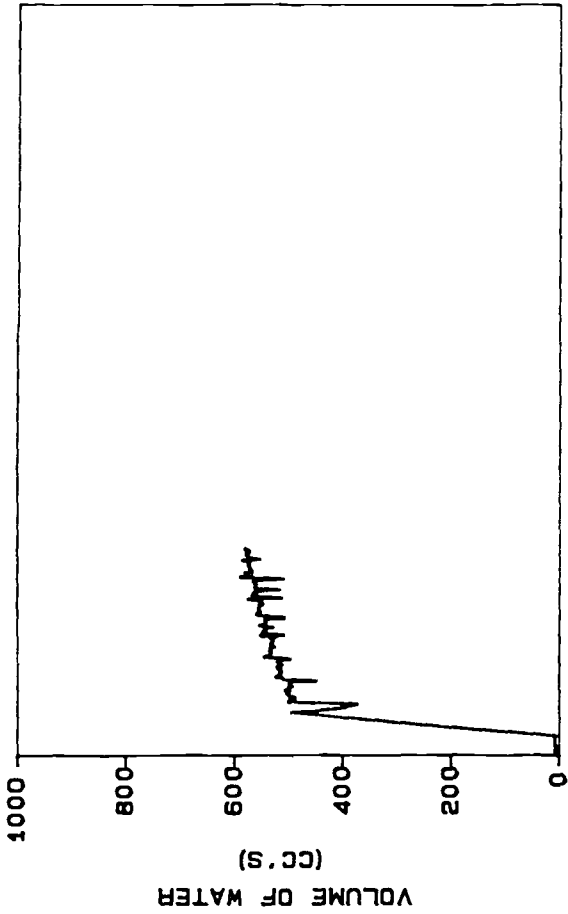
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

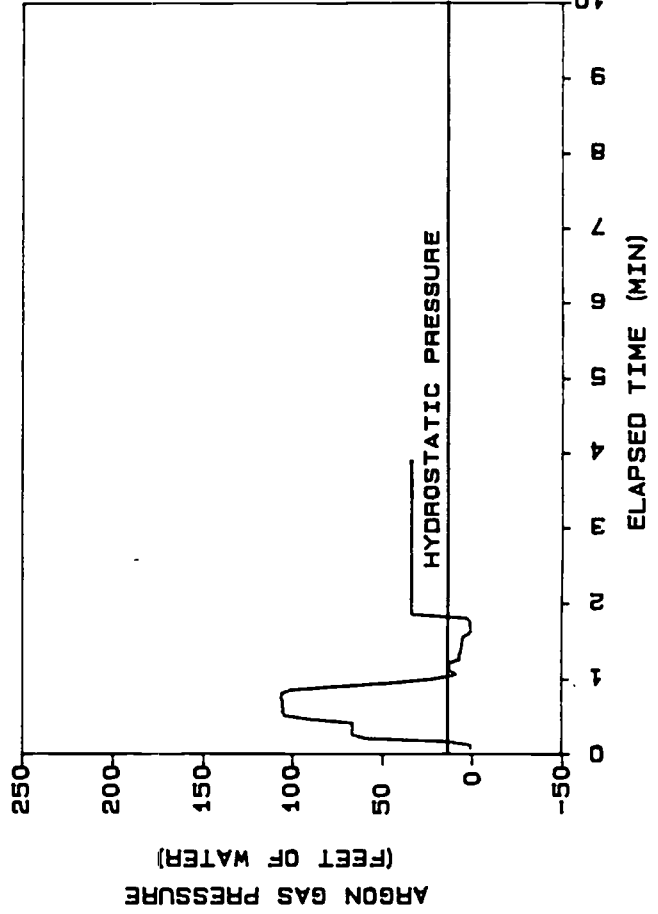
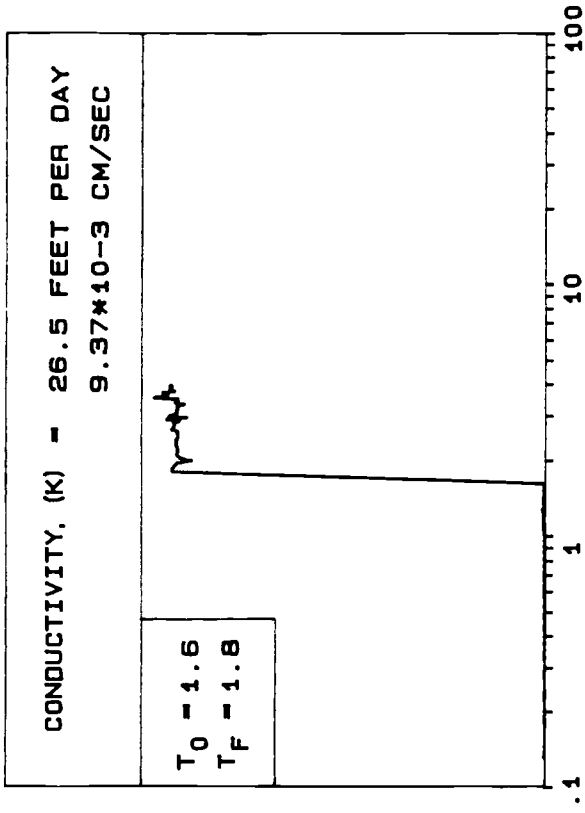
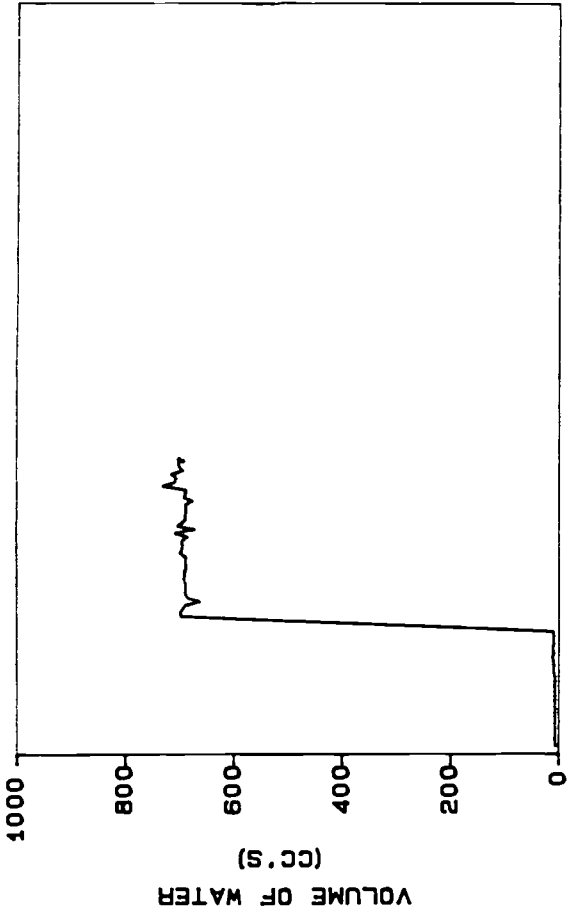
ABC CLEANERS
LOCATION... HC36-30
TEST DATE
12/18/91 09:06:01
SAMPLE DEPTH (FT) 30
GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



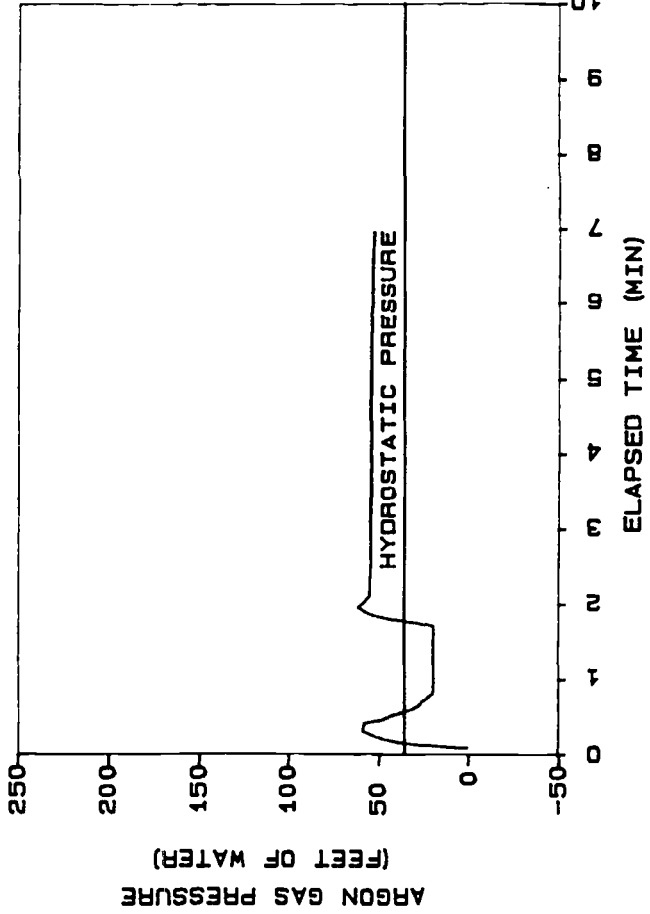
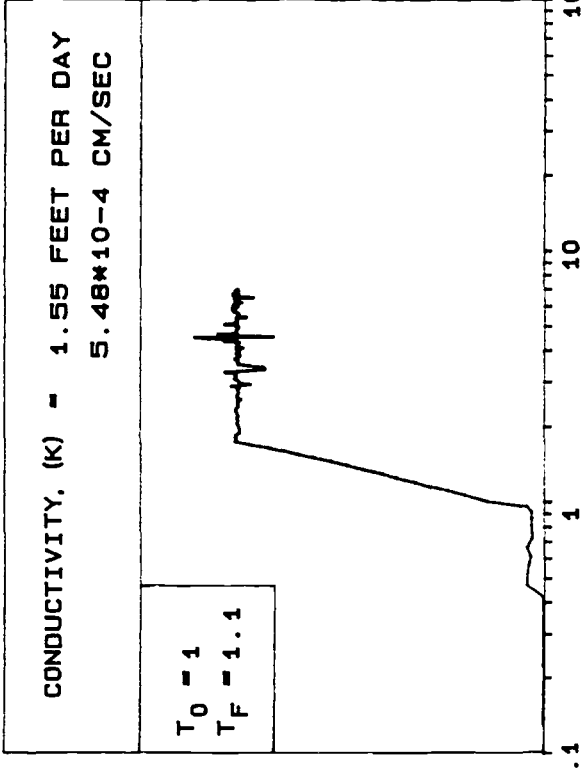
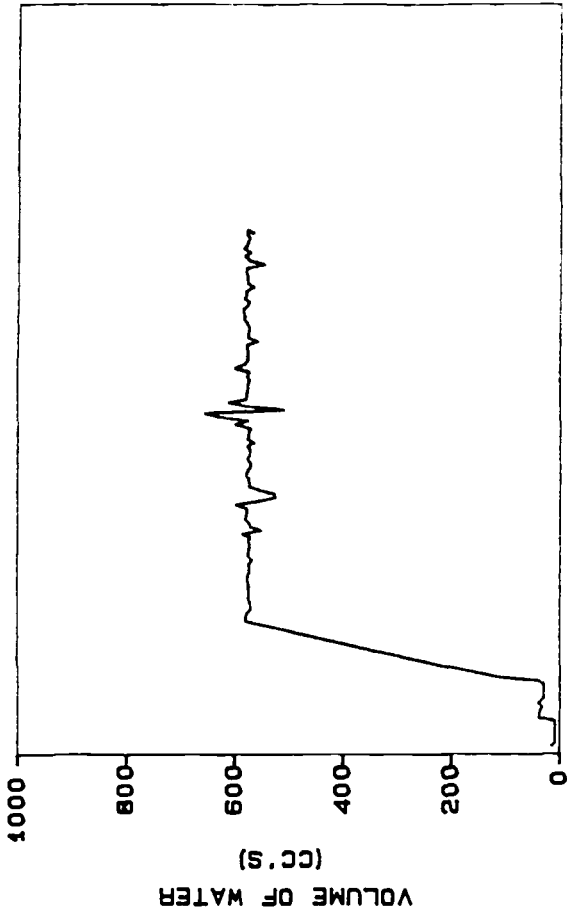
ABC CLEANERS
 LOCATION... HC36-41
 TEST DATE
 12/18/91 10:30:00
 SAMPLE DEPTH (FT) 41
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
LOCATION... HC37-27
TEST DATE
12/18/91 17:17:56
SAMPLE DEPTH (FT) 27
GROUNDWATER DEPTH (FT) 14

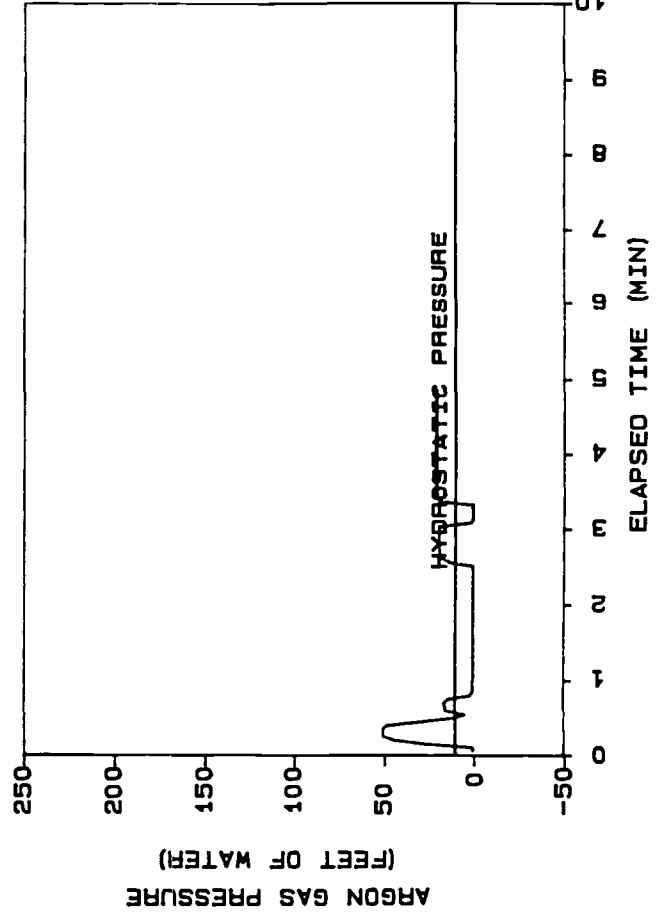
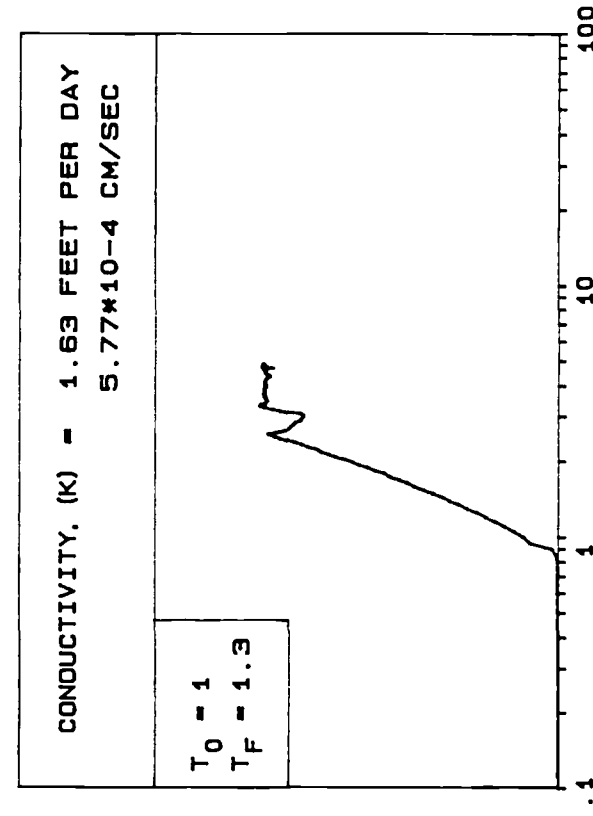
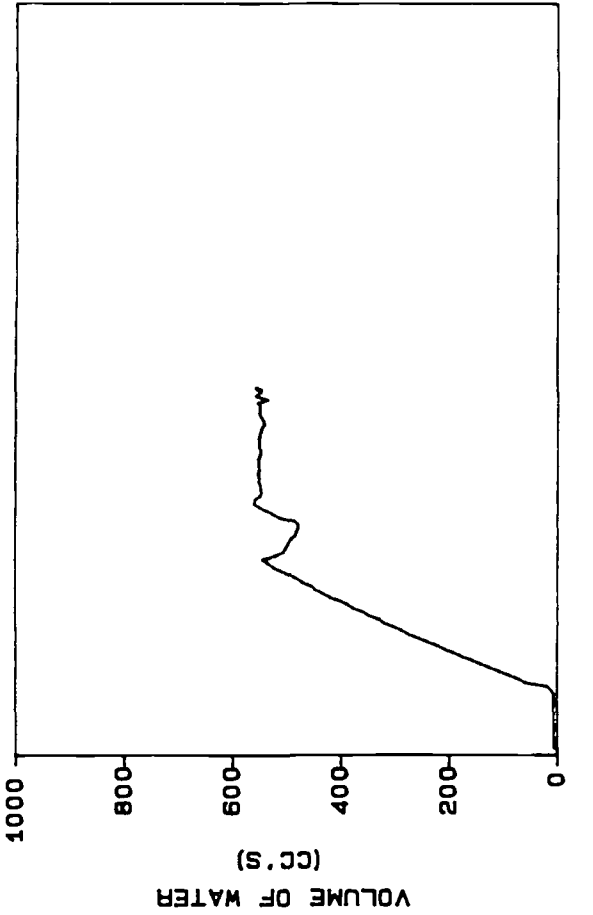
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC37-48
 TEST DATE
 12/17/91 18:14:56
 SAMPLE DEPTH (FT) 48
 GROUNDWATER DEPTH (FT) 13

HYDROCONE TEST

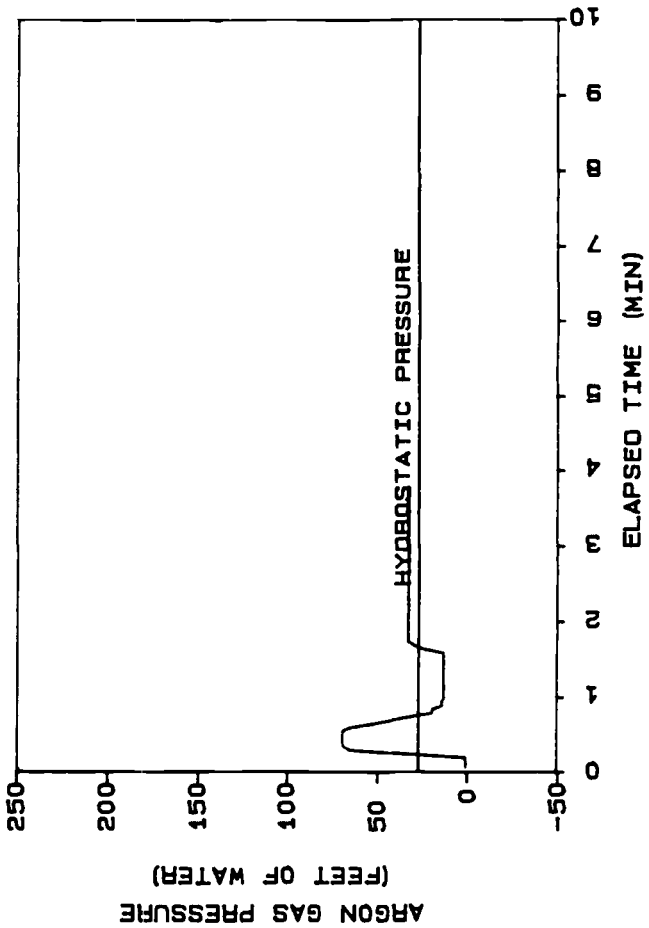
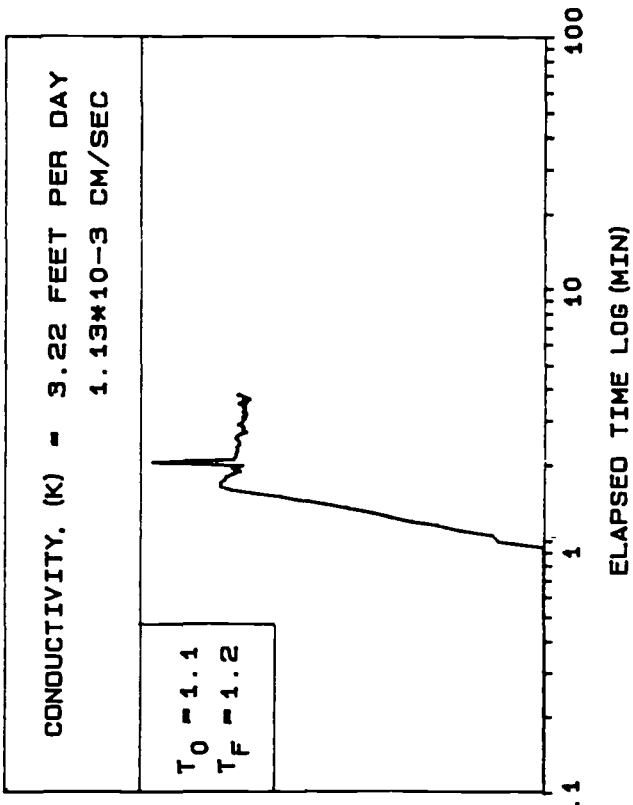
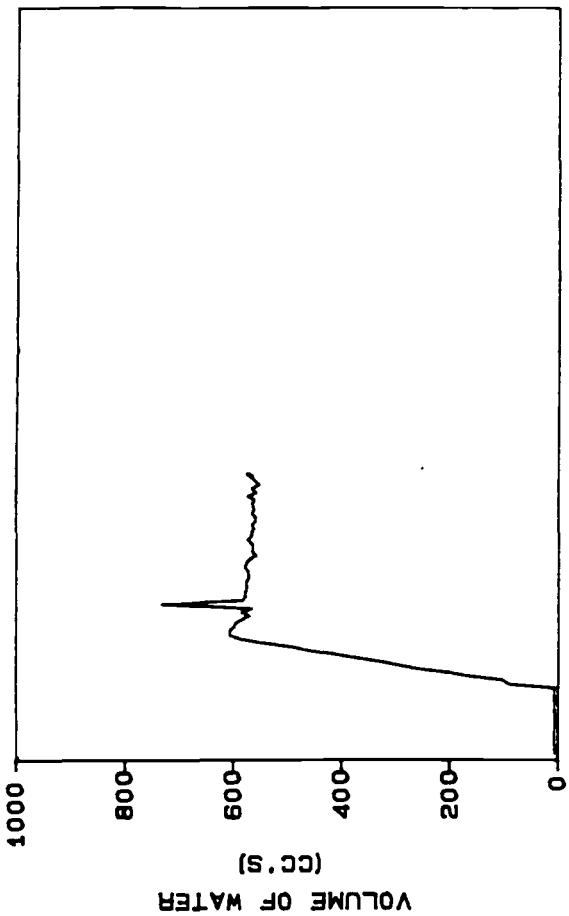


ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC38-24
TEST DATE
12/18/91 13:55:27

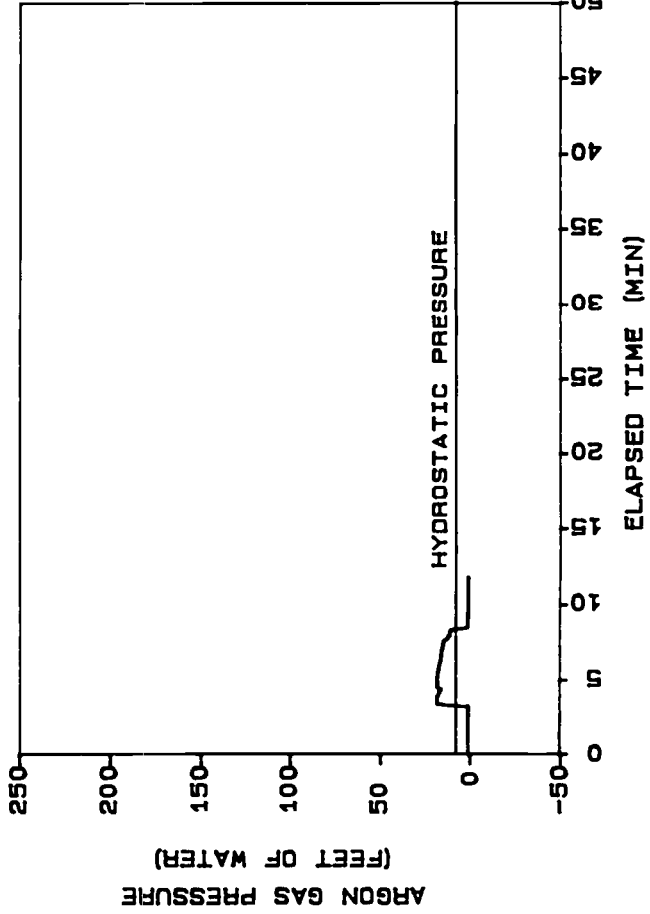
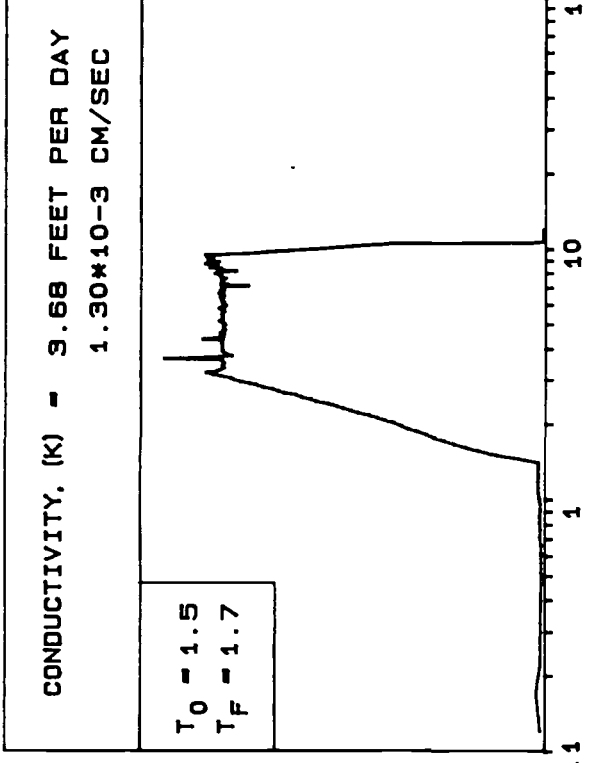
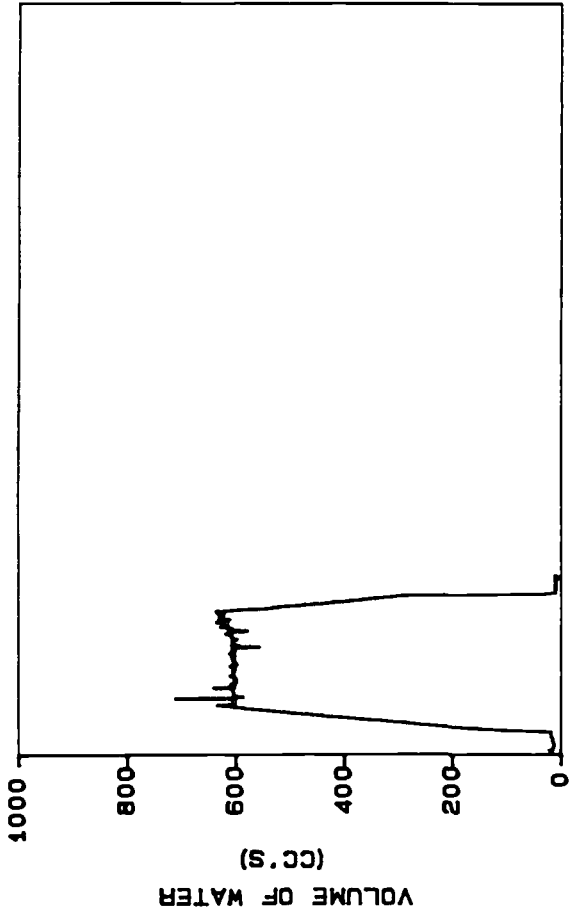
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



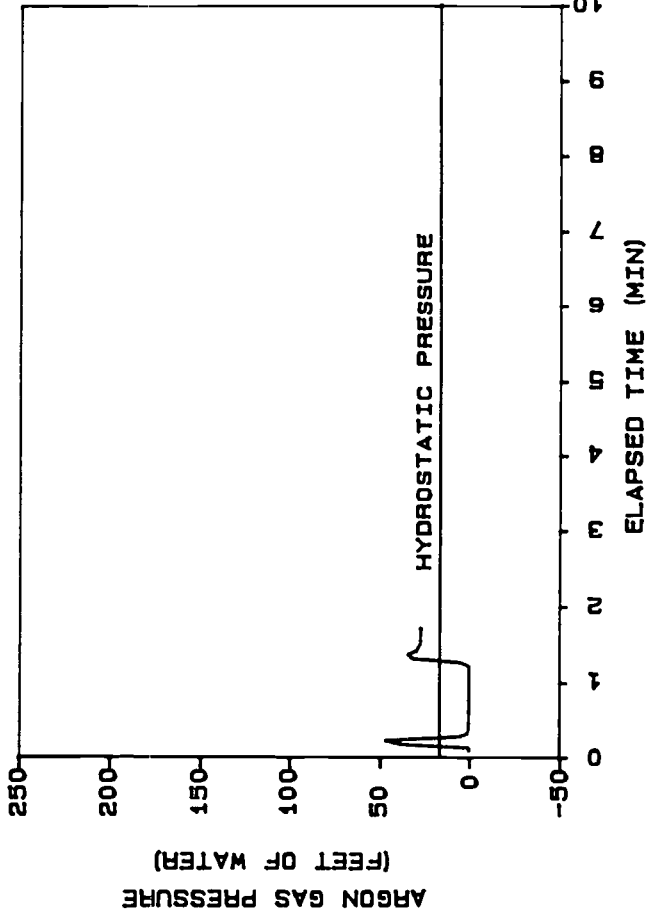
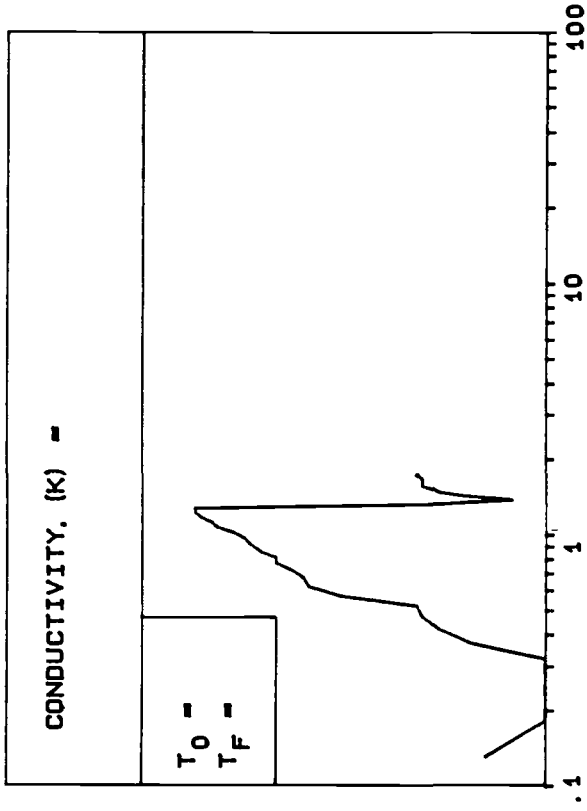
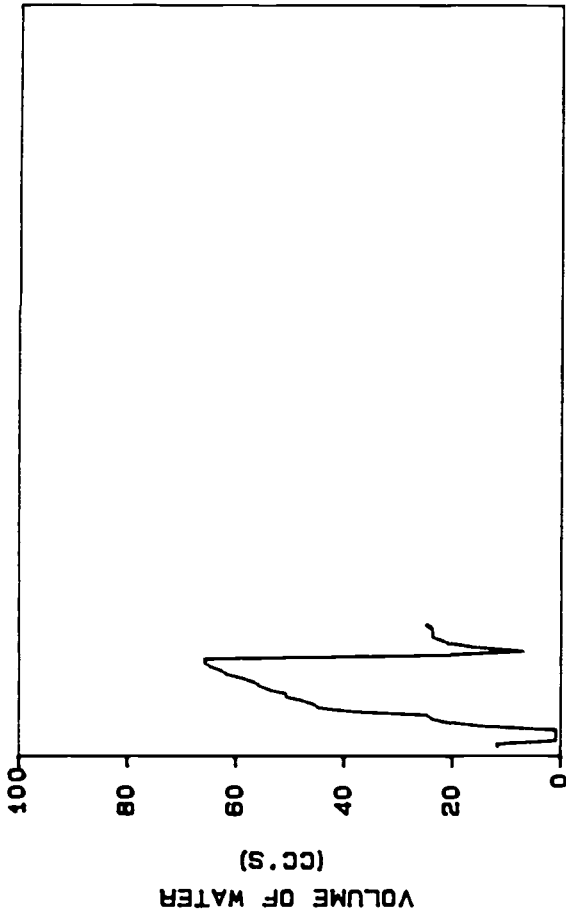
ABC CLEANERS
 LOCATION... HC38-40
 TEST DATE
 12/18/91 13:13:01
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



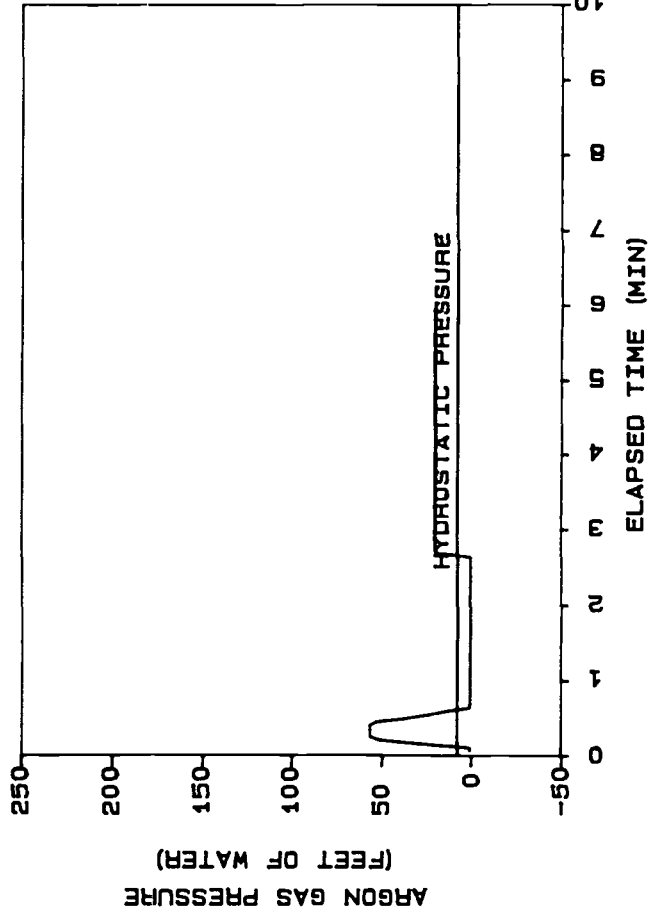
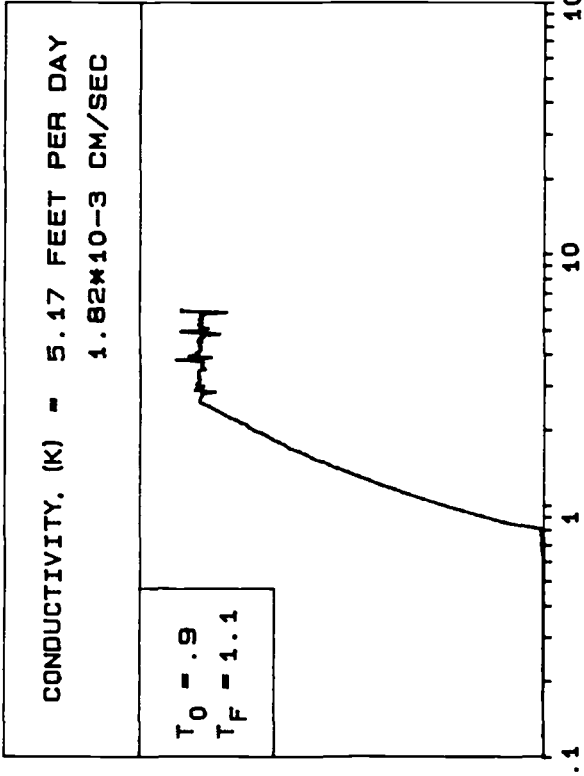
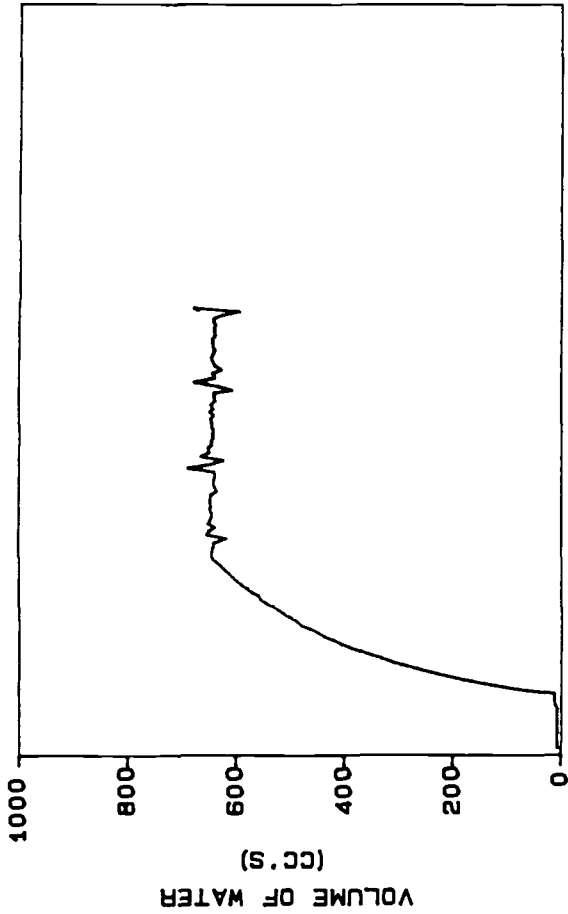
ABC CLEANERS
 LOCATION... HC39-23
 TEST DATE
 12/18/91 09: 11: 13
 SAMPLE DEPTH (FT) 23
 GROUNDWATER DEPTH (FT) 16

HYDROCONE TEST



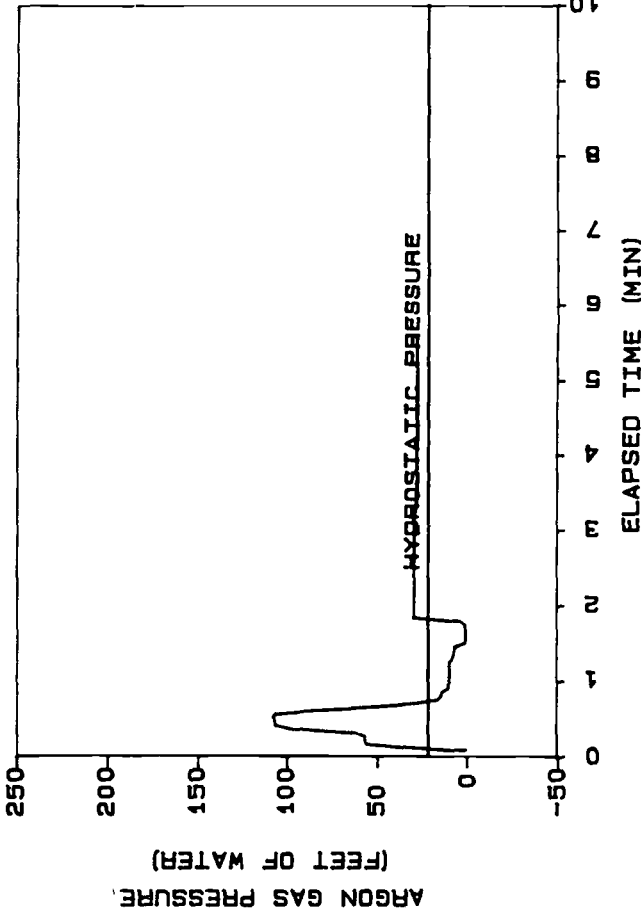
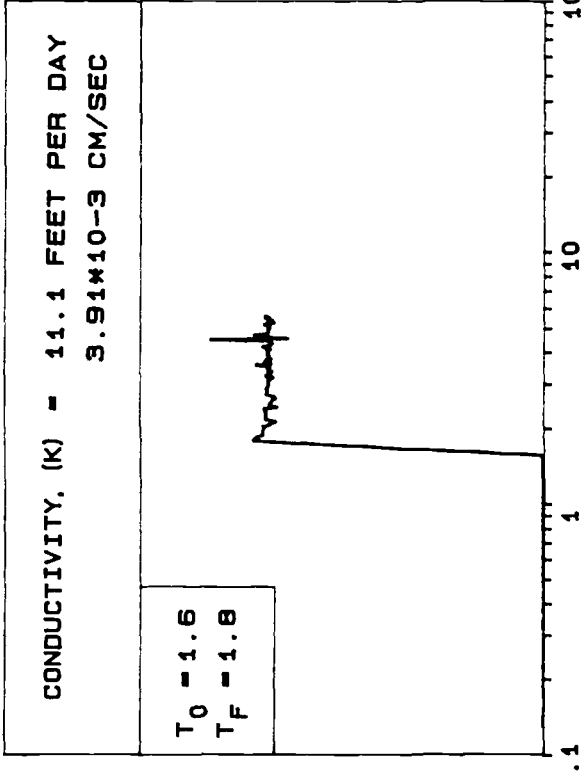
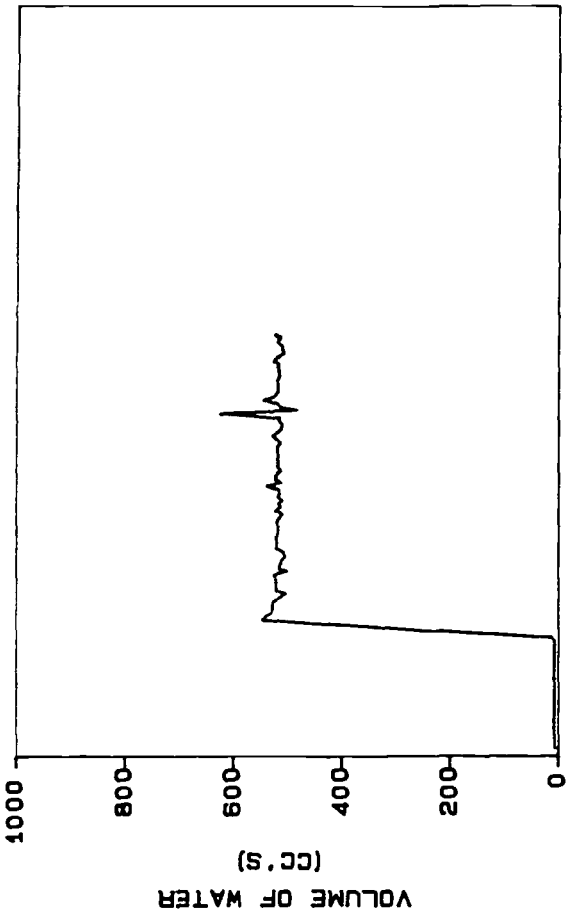
ABC CLEANERS
 LOCATION... HC39-35
 TEST DATE
 12/18/91 10:50:13
 SAMPLE DEPTH (FT) 35
 GROUNDWATER DEPTH (FT) 19

HYDROCONE TEST



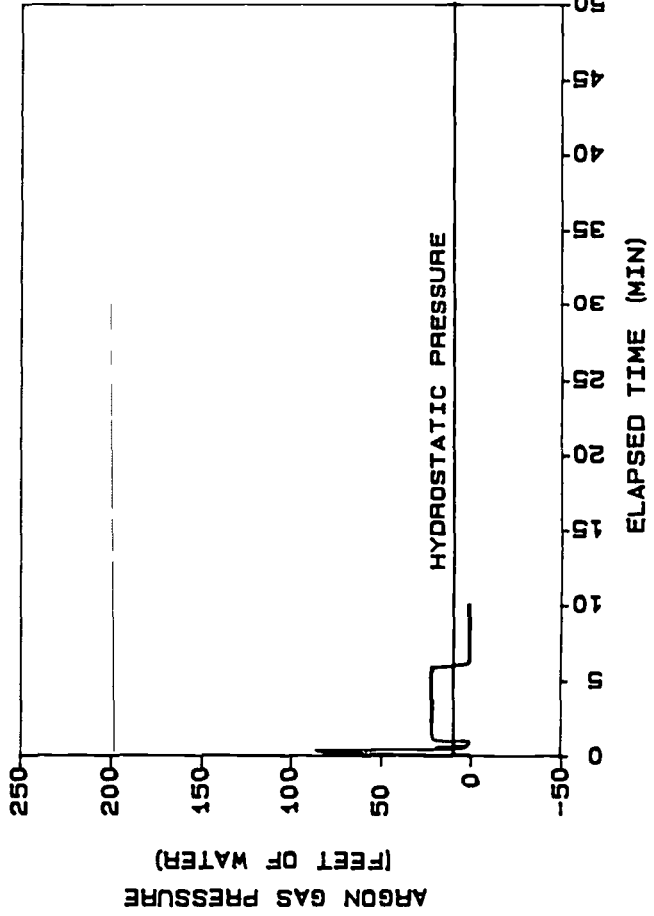
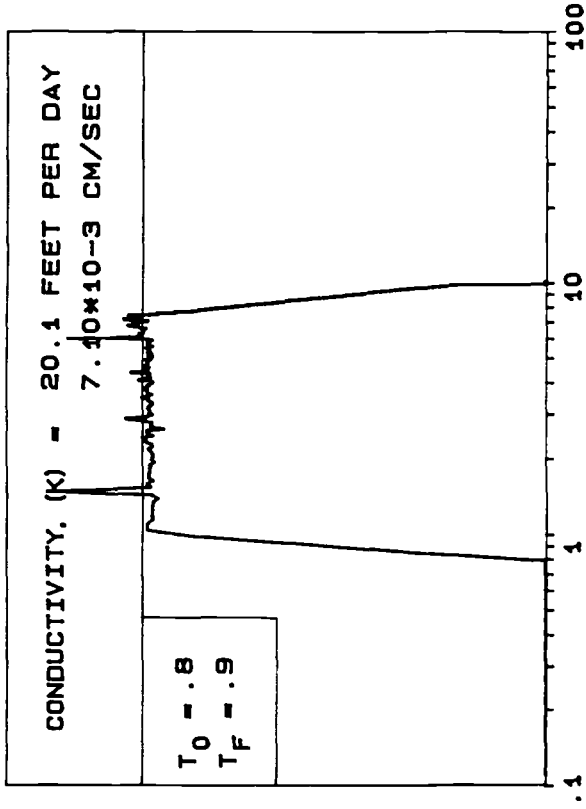
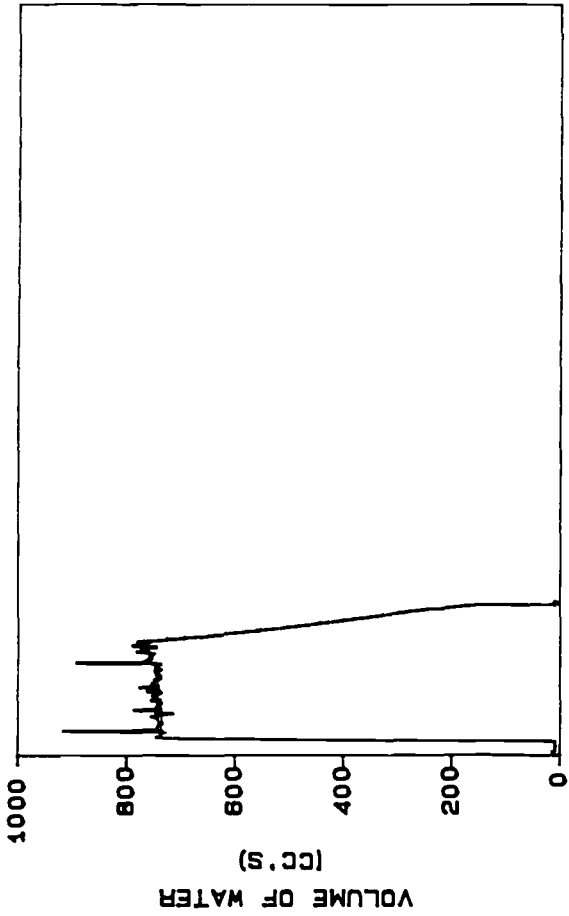
ABC CLEANERS
LOCATION... HC40-26
TEST DATE
12/18/91 16:17:23
SAMPLE DEPTH (FT) 28
GROUNDWATER DEPTH (FT) 19

HYDROCONE TEST



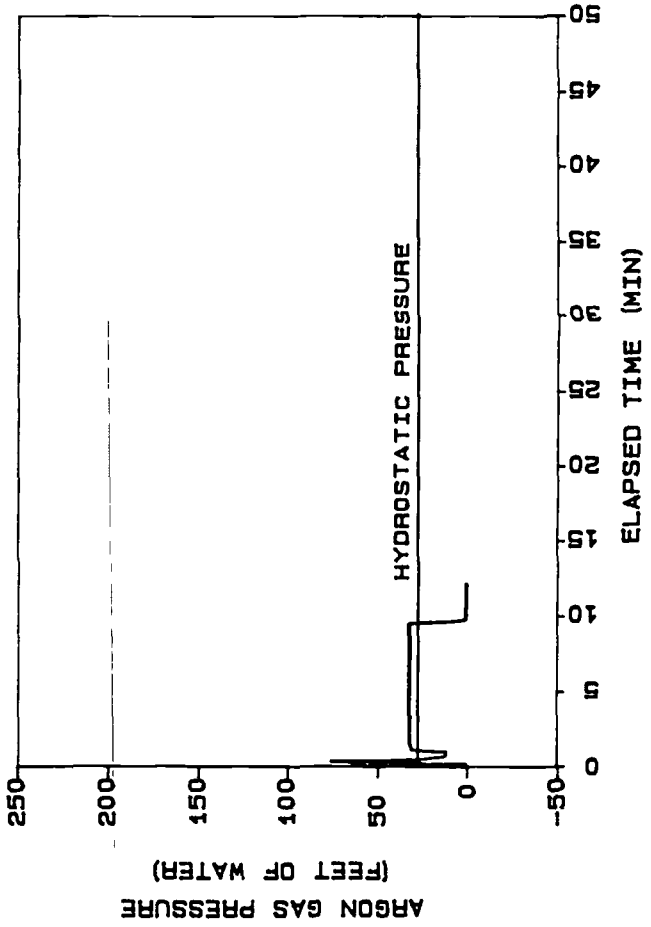
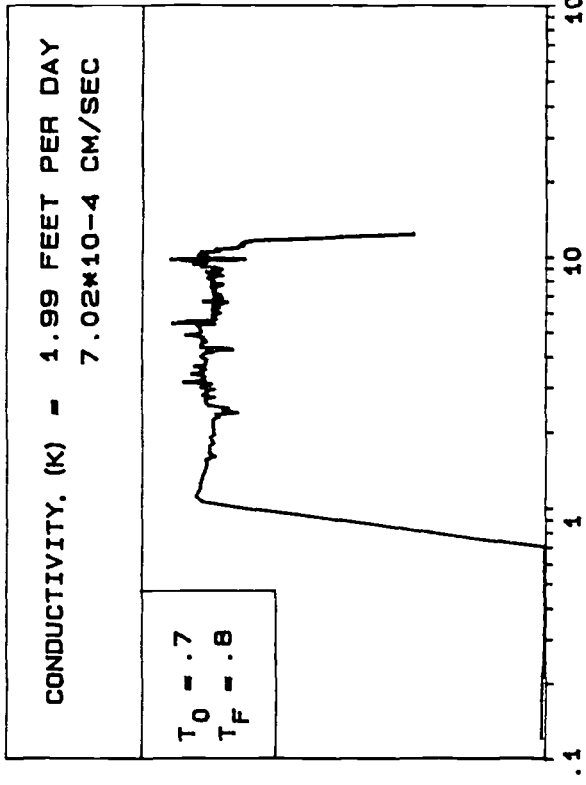
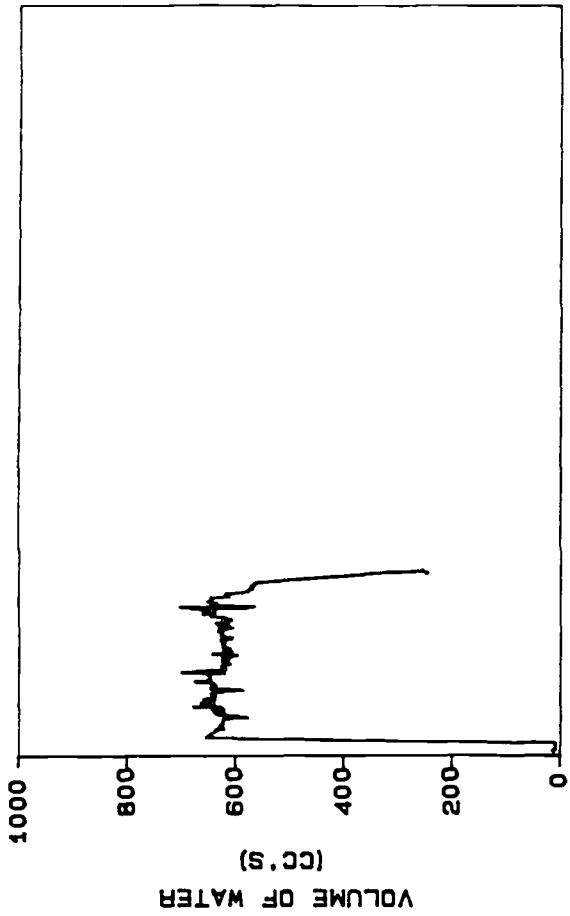
ABC CLEANERS
 LOCATION... HC40-40
 TEST DATE
 12/18/91 15: 42: 47
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 19

HYDROCONE TEST



ABC CLEANERS
LOCATION... HC41-27
TEST DATE
12/18/91 13:49:00
SAMPLE DEPTH (FT) 27
GROUNDWATER DEPTH (FT) 18

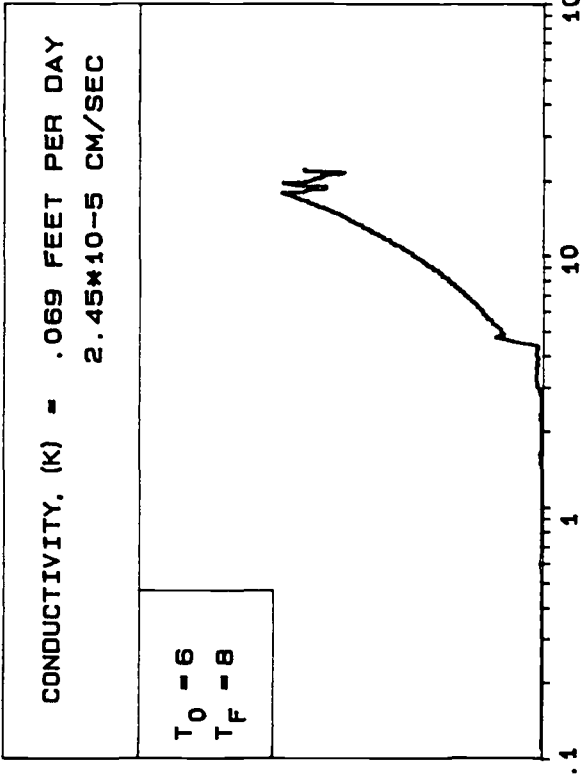
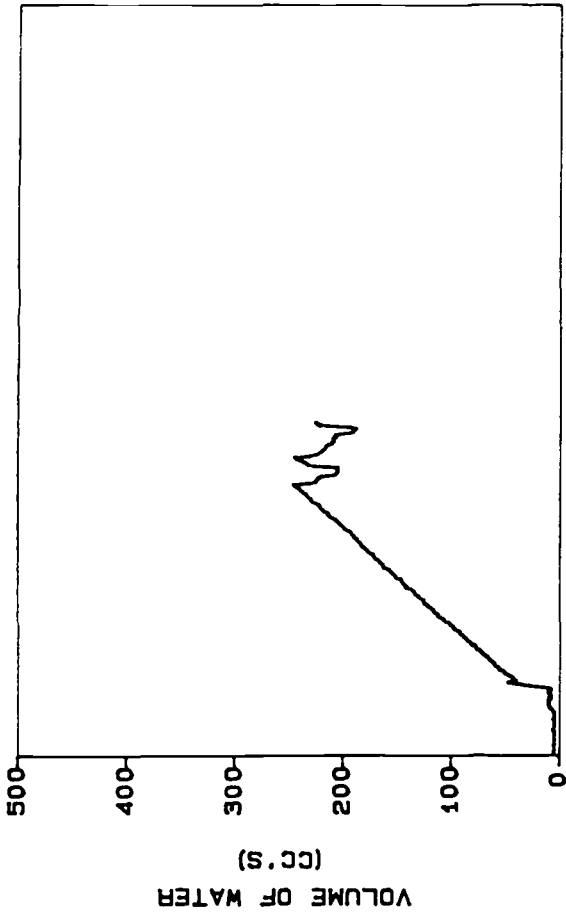
HYDROCONE TEST



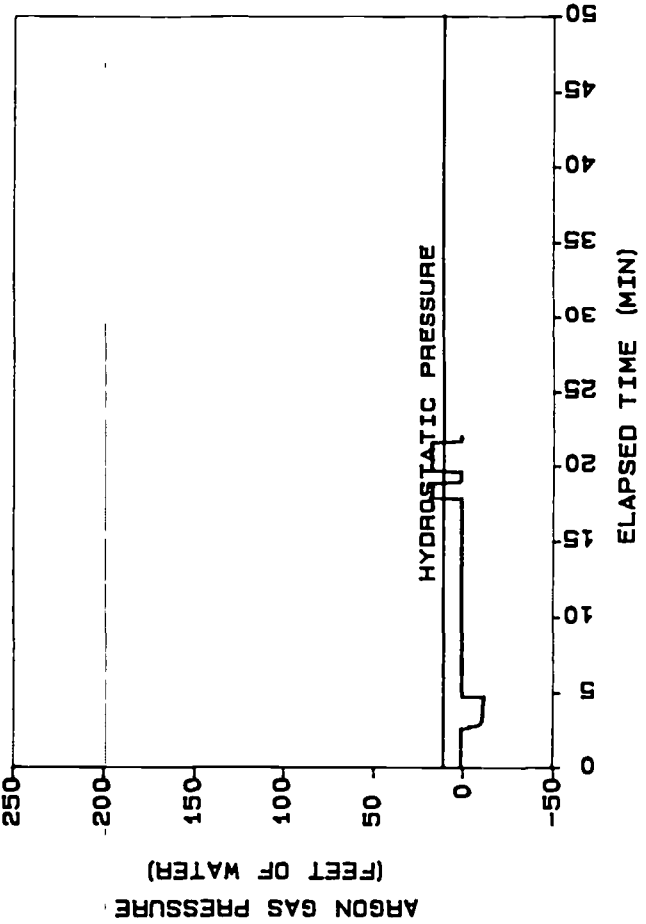
ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC41-45
 TEST DATE
 12/18/91 13: 18: 43
 SAMPLE DEPTH (FT) 45
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



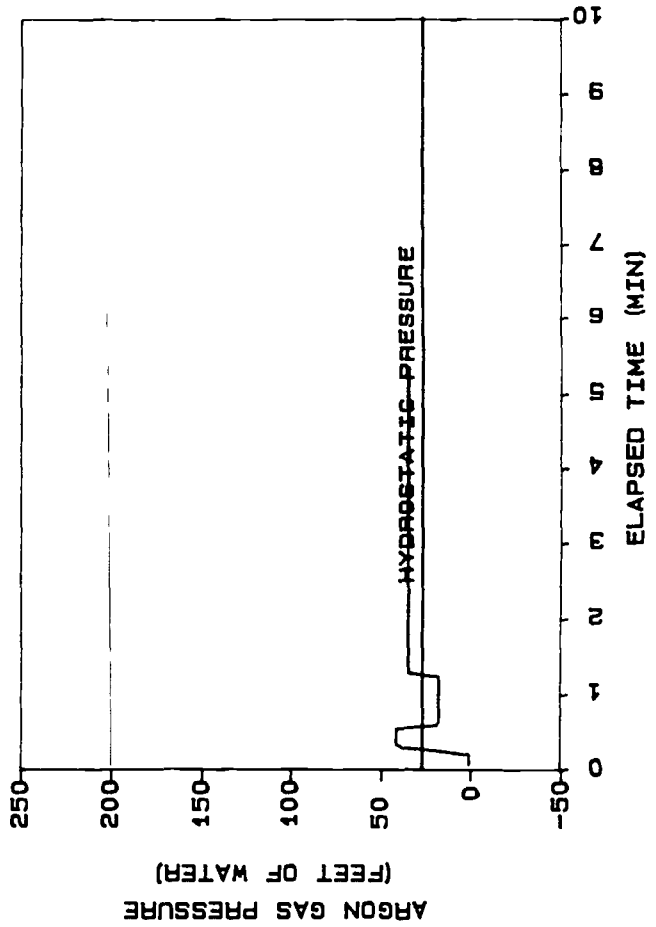
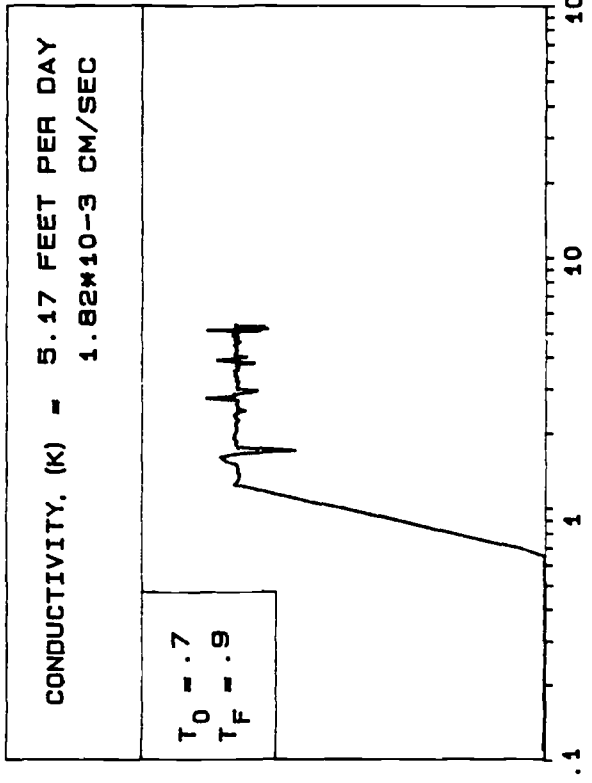
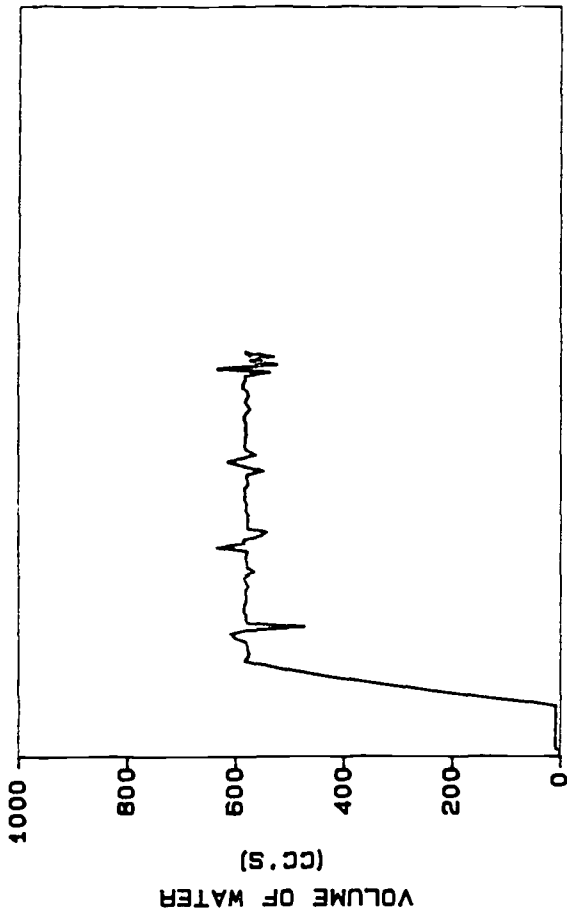
T₀ = 6
T_F = 8



ELAPSED TIME LOG (MIN)

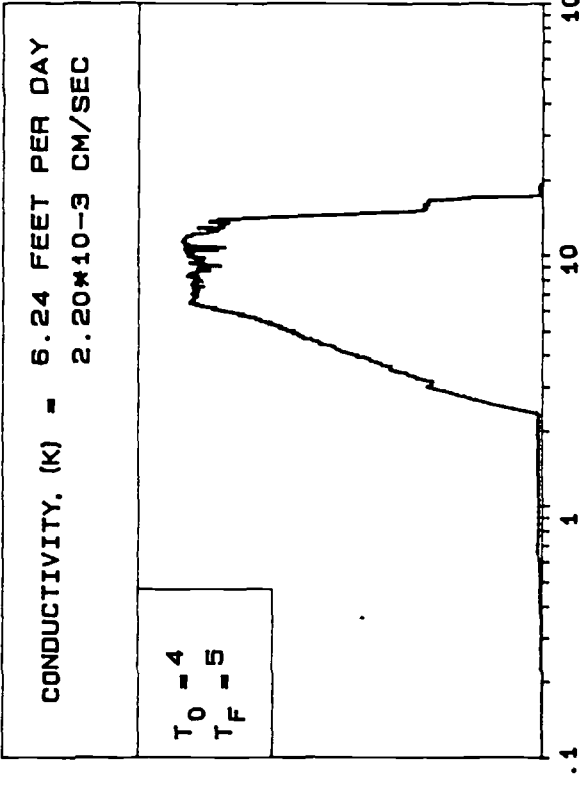
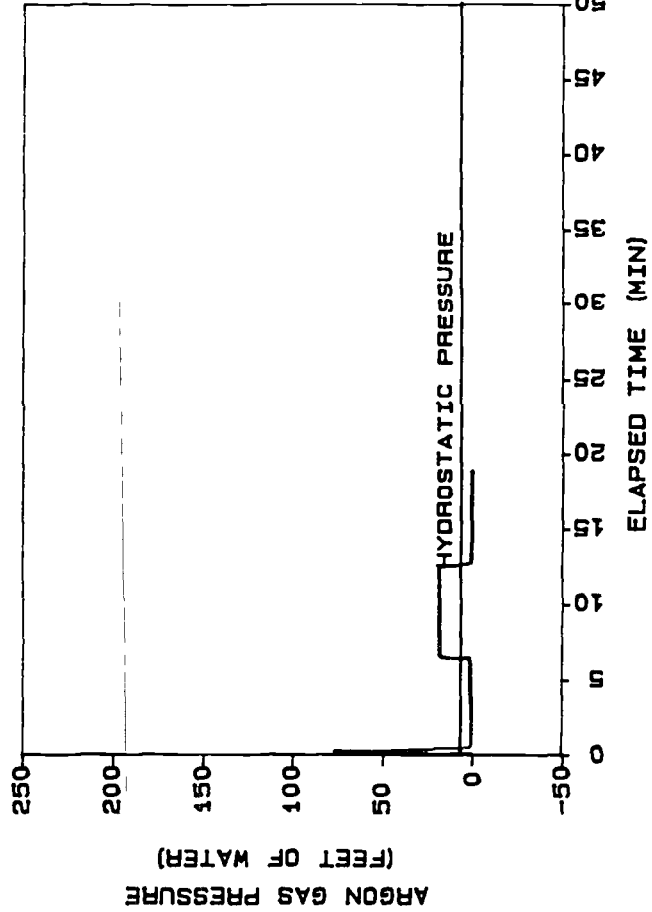
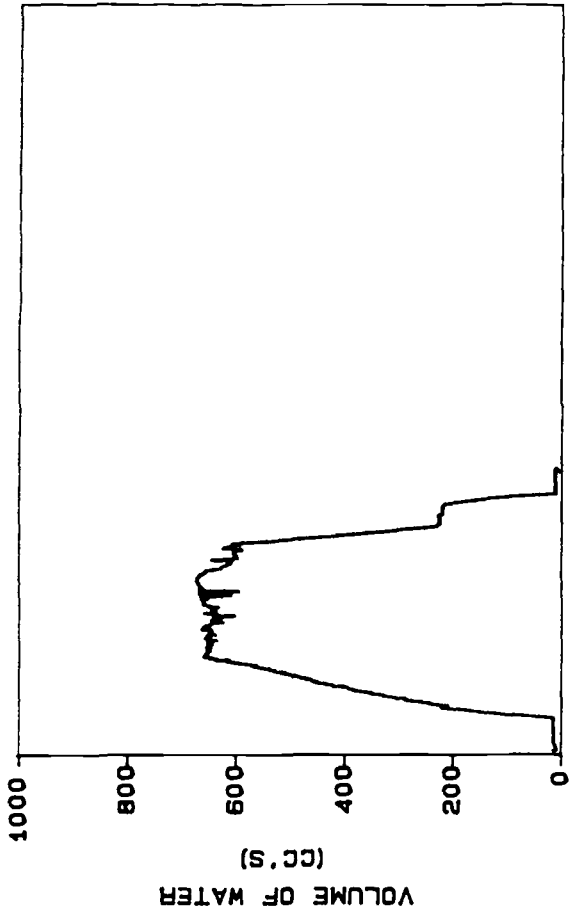
ABC CLEANERS
LOCATION... HC42-24
TEST DATE
12/19/91 09: 25: 19
SAMPLE DEPTH (FT) 24
GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC42-40
 TEST DATE
 12/19/91 10:40:35
 SAMPLE DEPTH (FT) 40
 GROUNDWATER DEPTH (FT) 14

HYDROCONE TEST

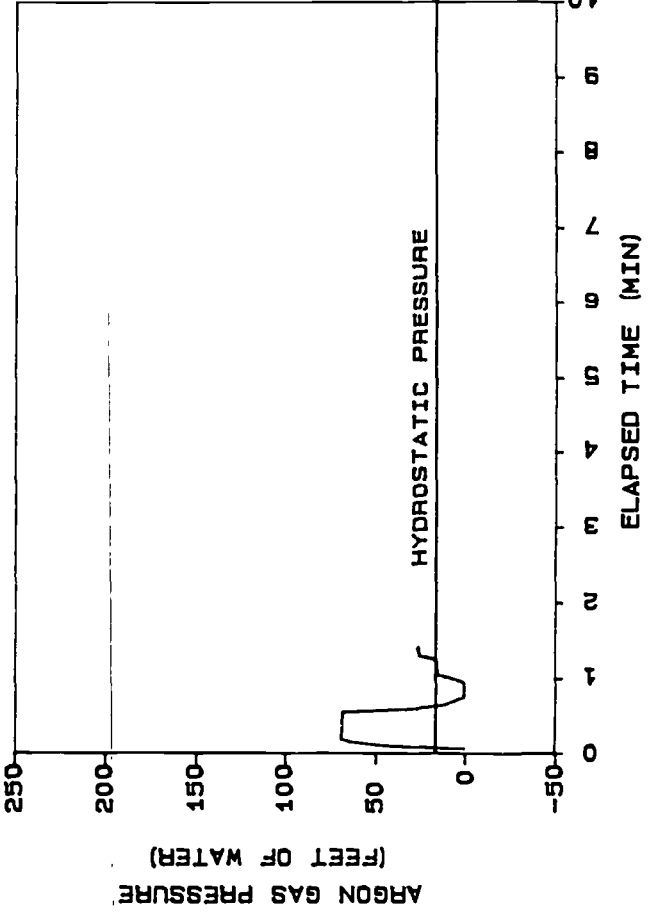
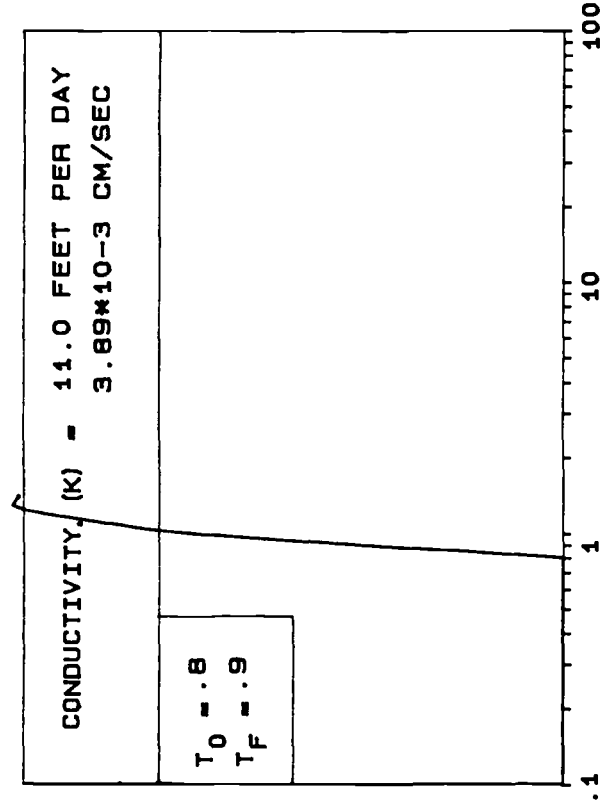
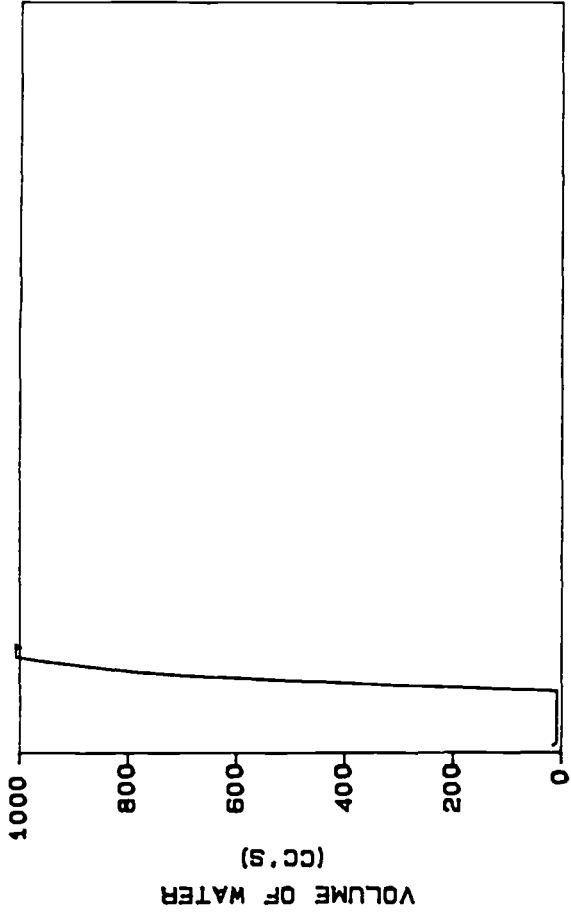


T₀ = 4
T_F = 5

ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC43-24
 TEST DATE
 12/18/91 16:28:06
 SAMPLE DEPTH (FT) 24
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST

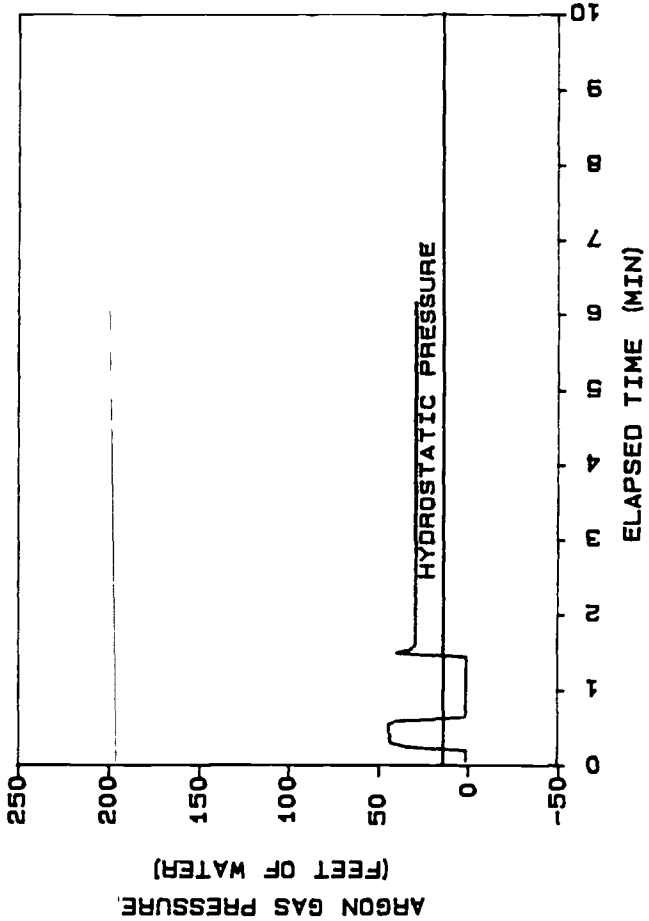
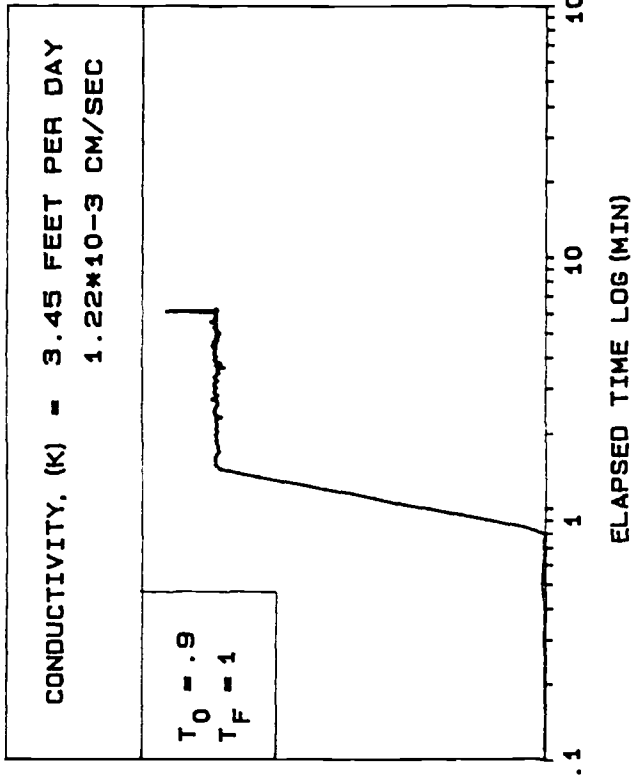
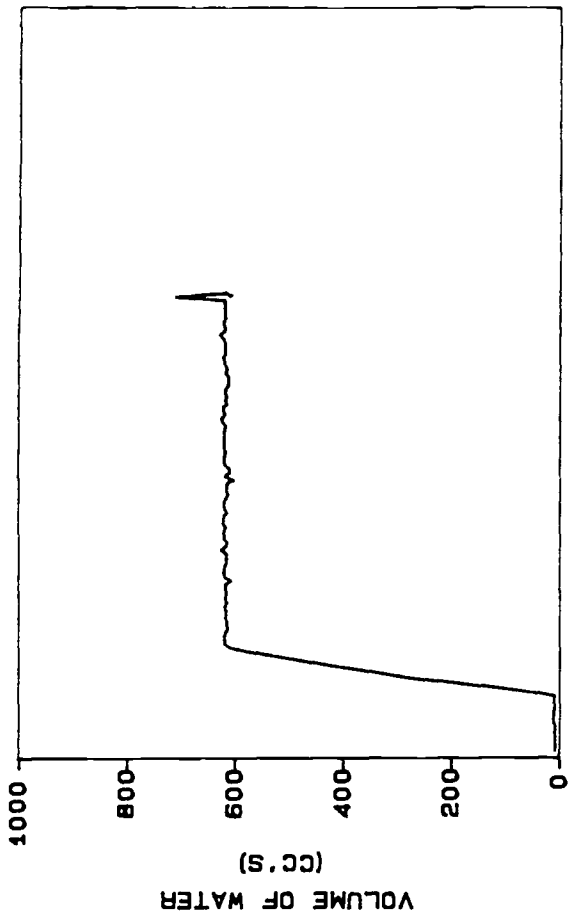


ELAPSED TIME LOG (MIN)

ABC CLEANERS
LOCATION... HC43-34
TEST DATE
12/18/91 15:56:49

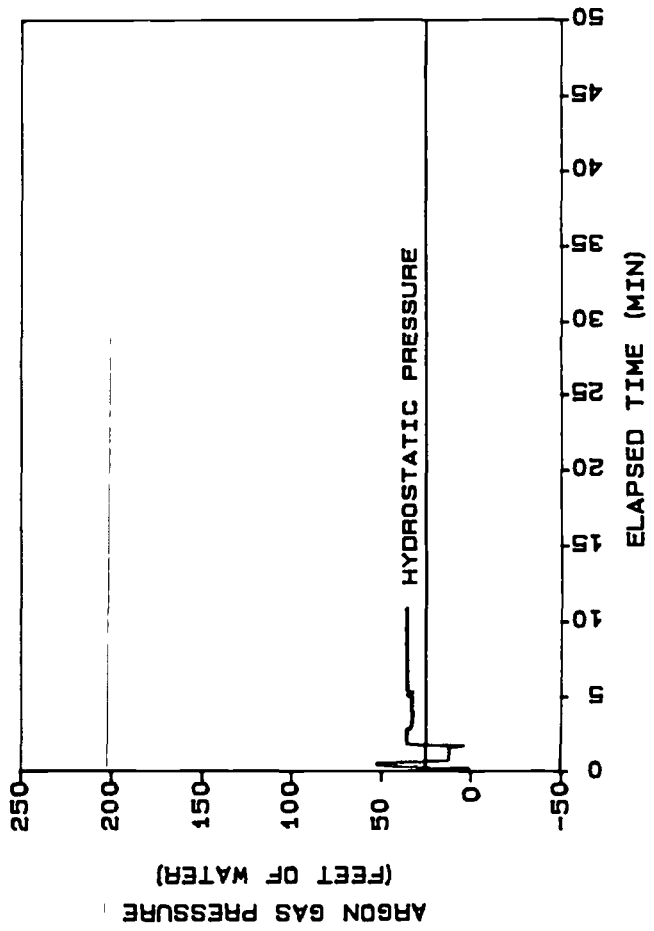
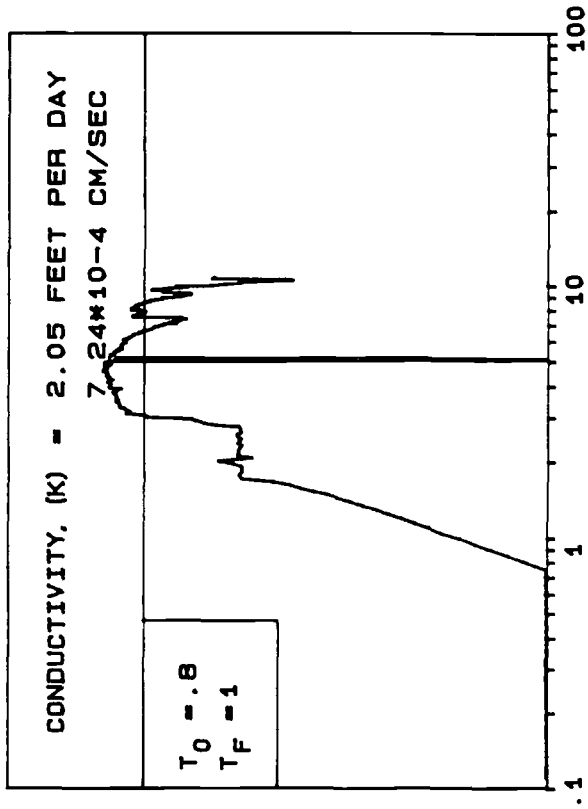
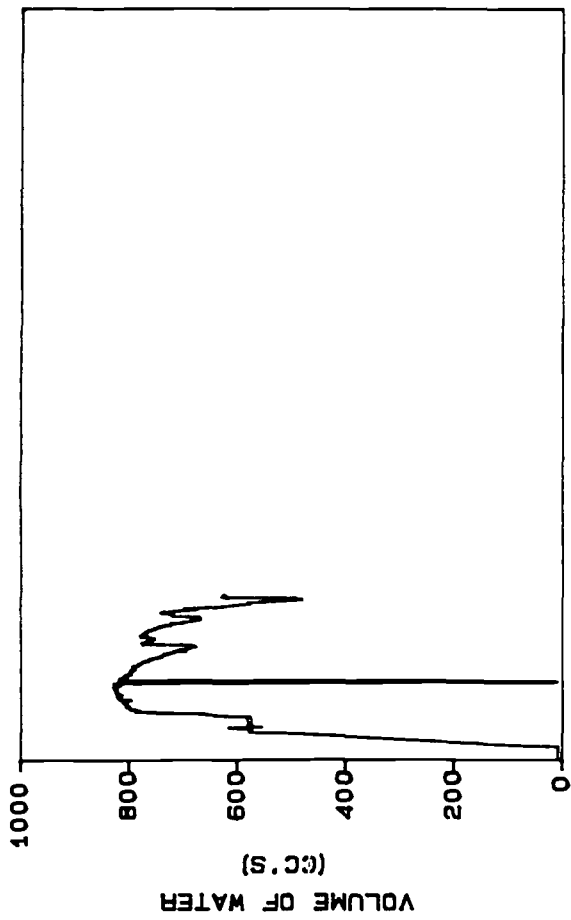
SAMPLE DEPTH (FT) 34
GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



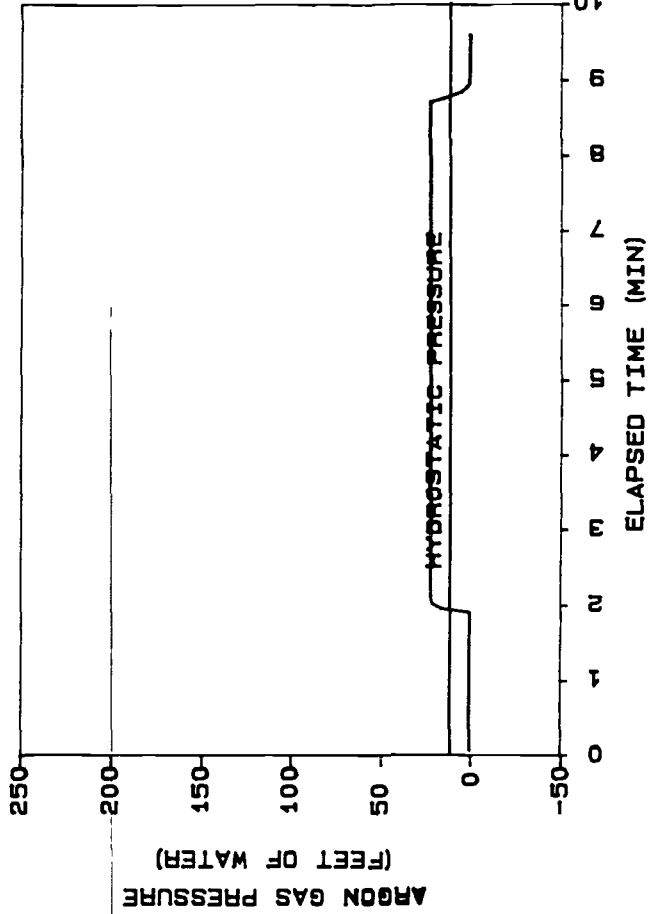
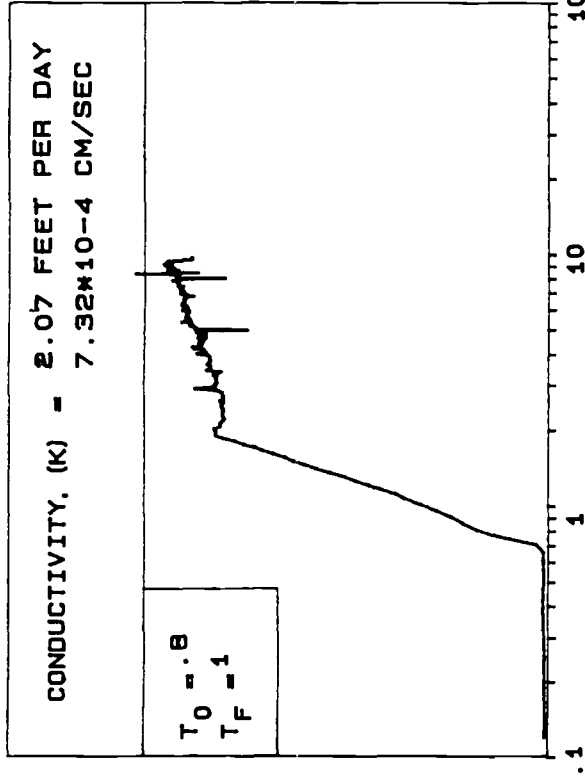
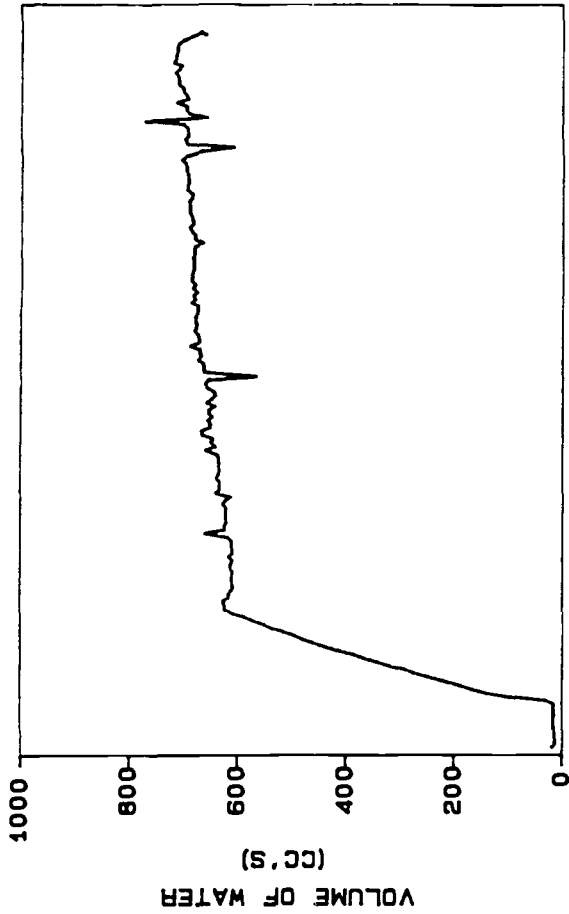
ABC CLEANERS
 LOCATION... HC44-28
 TEST DATE
 12/19/91 11: 42: 54
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



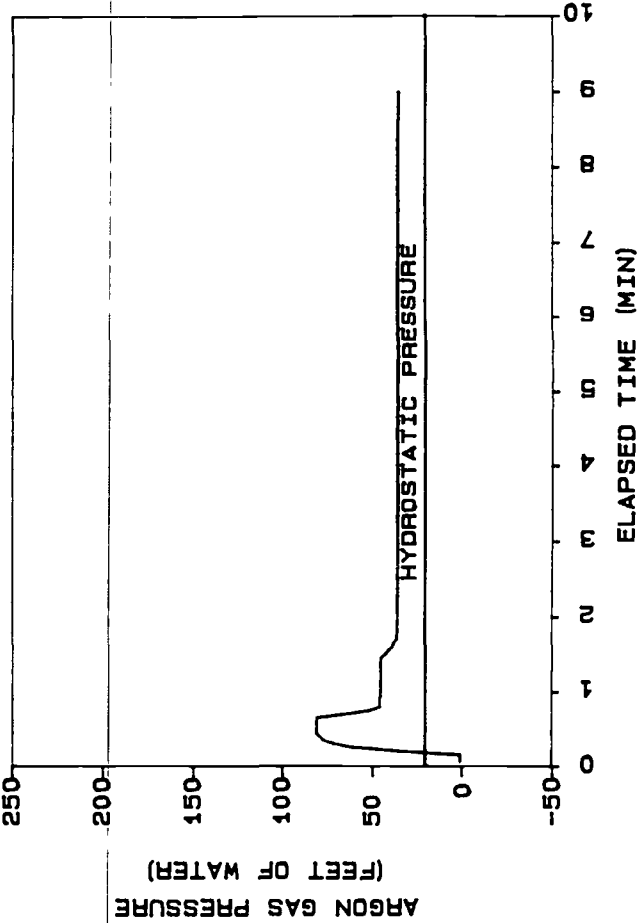
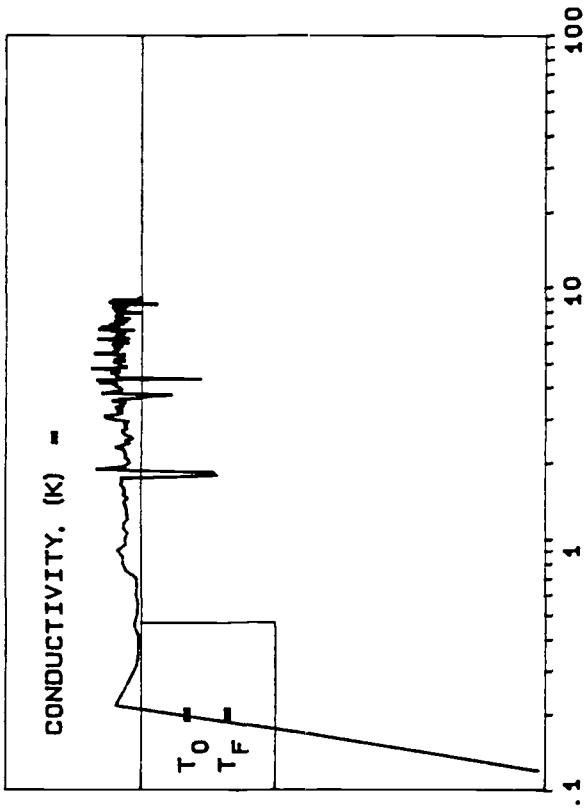
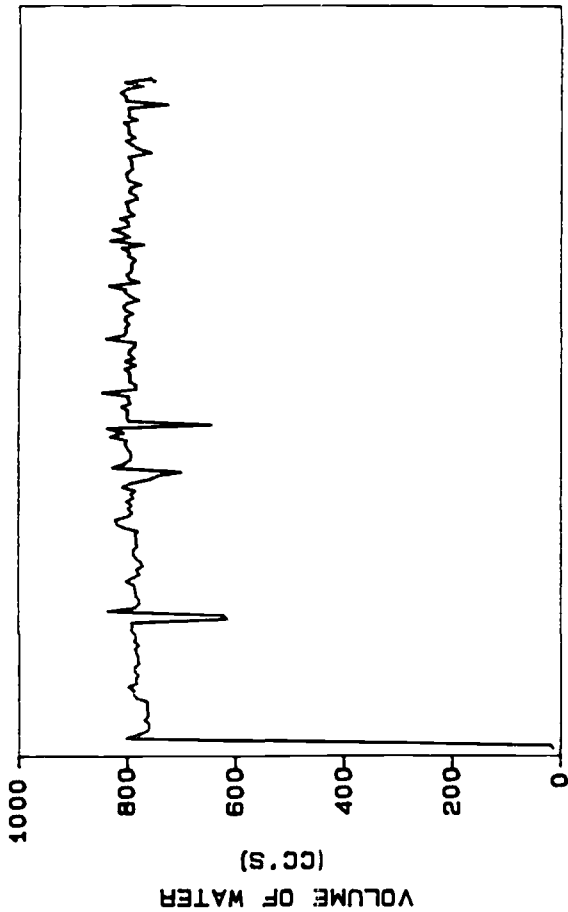
ABC CLEANERS
 LOCATION... HC44-39
 TEST DATE
 12/19/91 12:51:04
 SAMPLE DEPTH (FT) 39
 GROUNDWATER DEPTH (FT) 15

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC45-28
 TEST DATE
 12/19/91 10:24:05
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 17

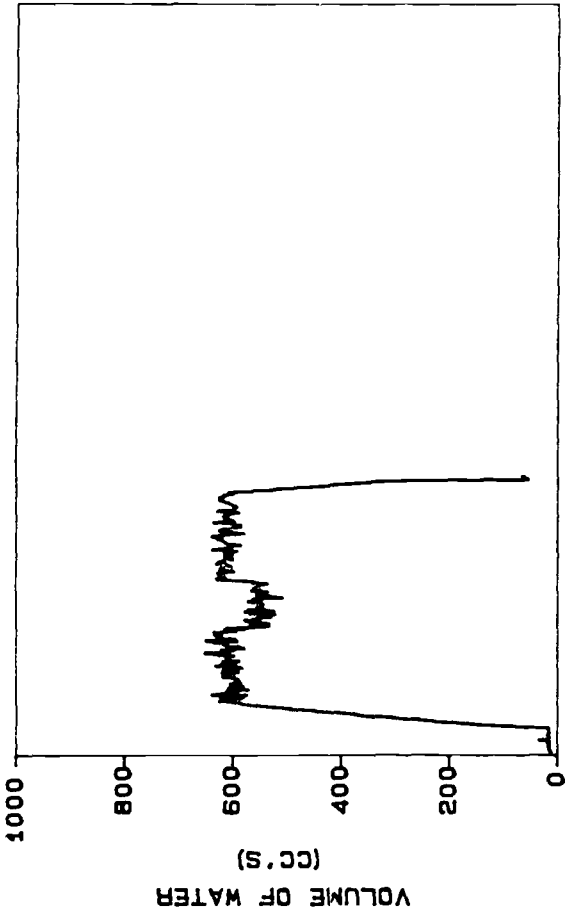
HYDROCONE TEST



ELAPSED TIME LOG (MIN)

ABC CLEANERS
 LOCATION... HC45-38
 TEST DATE
 12/19/91 11:04:24
 SAMPLE DEPTH (FT) 38
 GROUNDWATER DEPTH (FT) 18

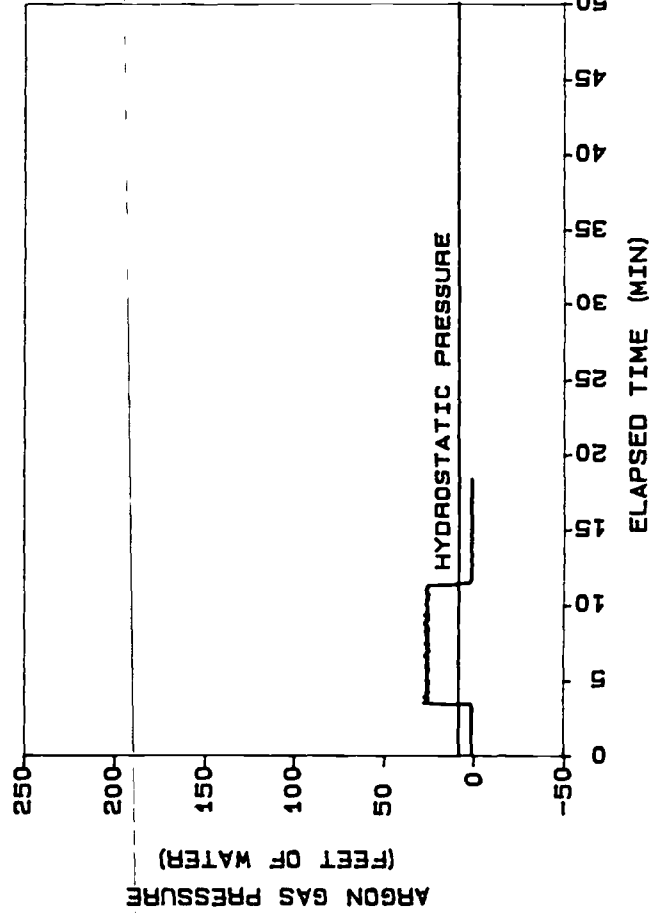
HYDROCONE TEST



CONDUCTIVITY, (K) = 2.86 FEET PER DAY
 1.01*10⁻³ CM/SEC

T₀ = 1.7
 T_F = 2

ELAPSED TIME LOG (MIN)

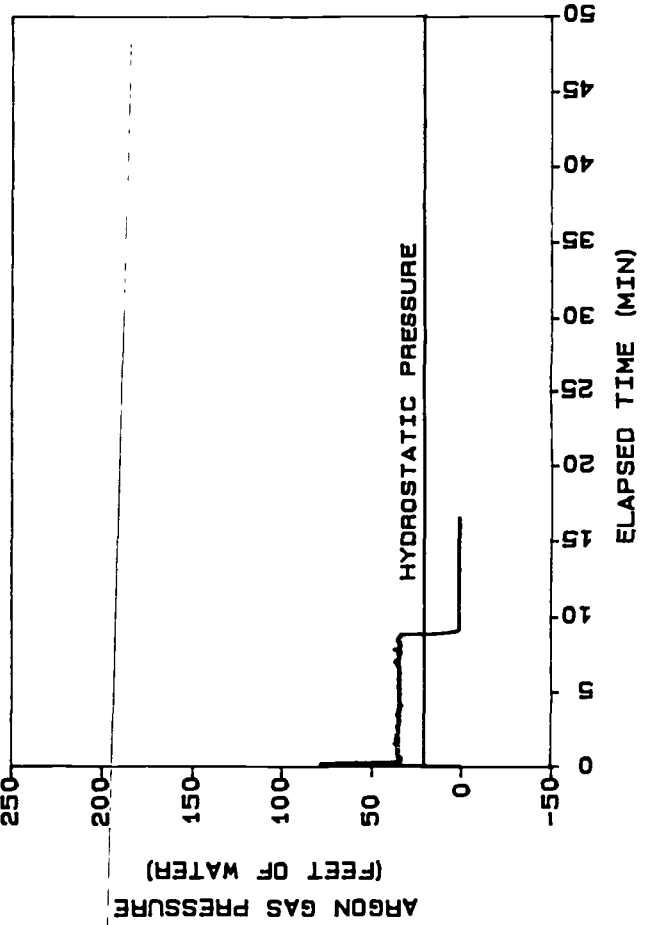
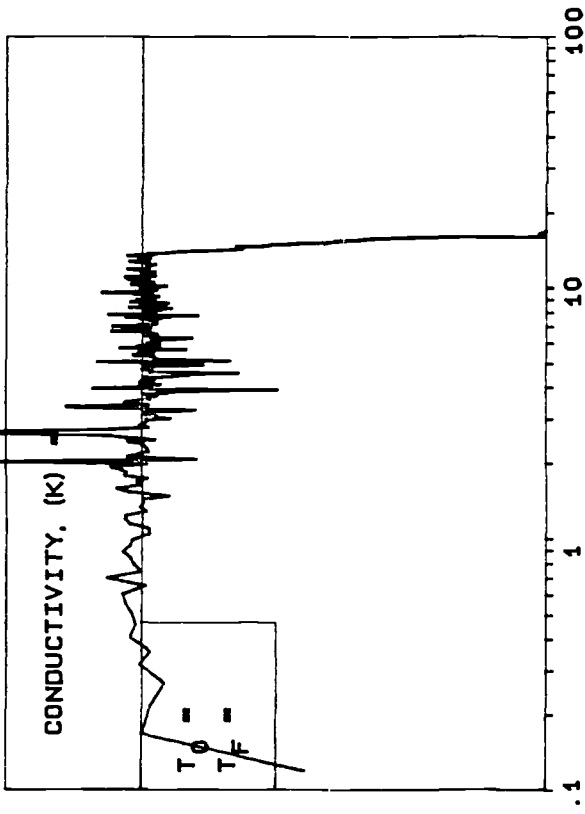
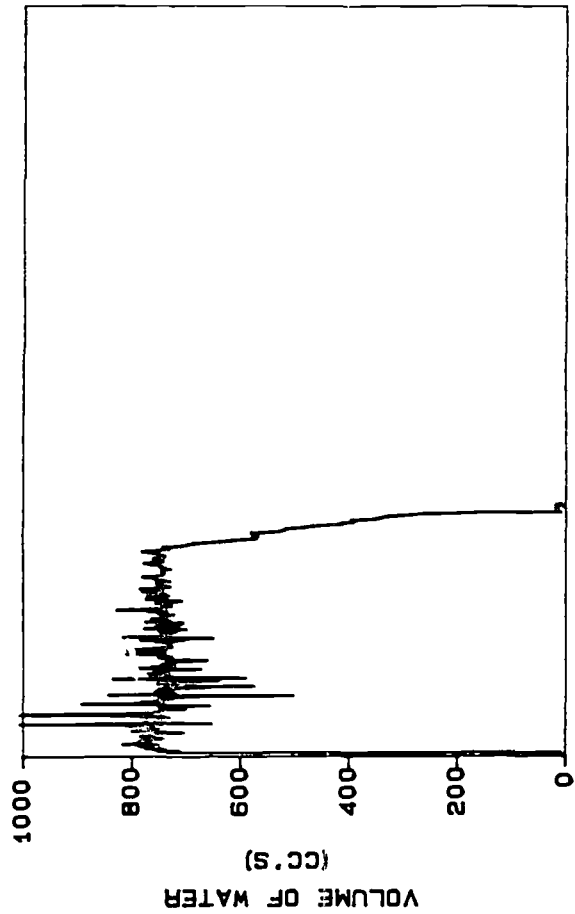


HYDROSTATIC PRESSURE

ELAPSED TIME (MIN)

ABC CLEANERS
 LOCATION... HC47-26
 TEST DATE
 12/19/91 13:07:45
 SAMPLE DEPTH (FT) 28
 GROUNDWATER DEPTH (FT) 18

HYDROCONE TEST



ABC CLEANERS
 LOCATION... HC47-38
 TEST DATE
 12/19/91 13:56:59
 SAMPLE DEPTH (FT) 38
 GROUNDWATER DEPTH (FT) 18