

FIGURES

Bailey Manufacturing

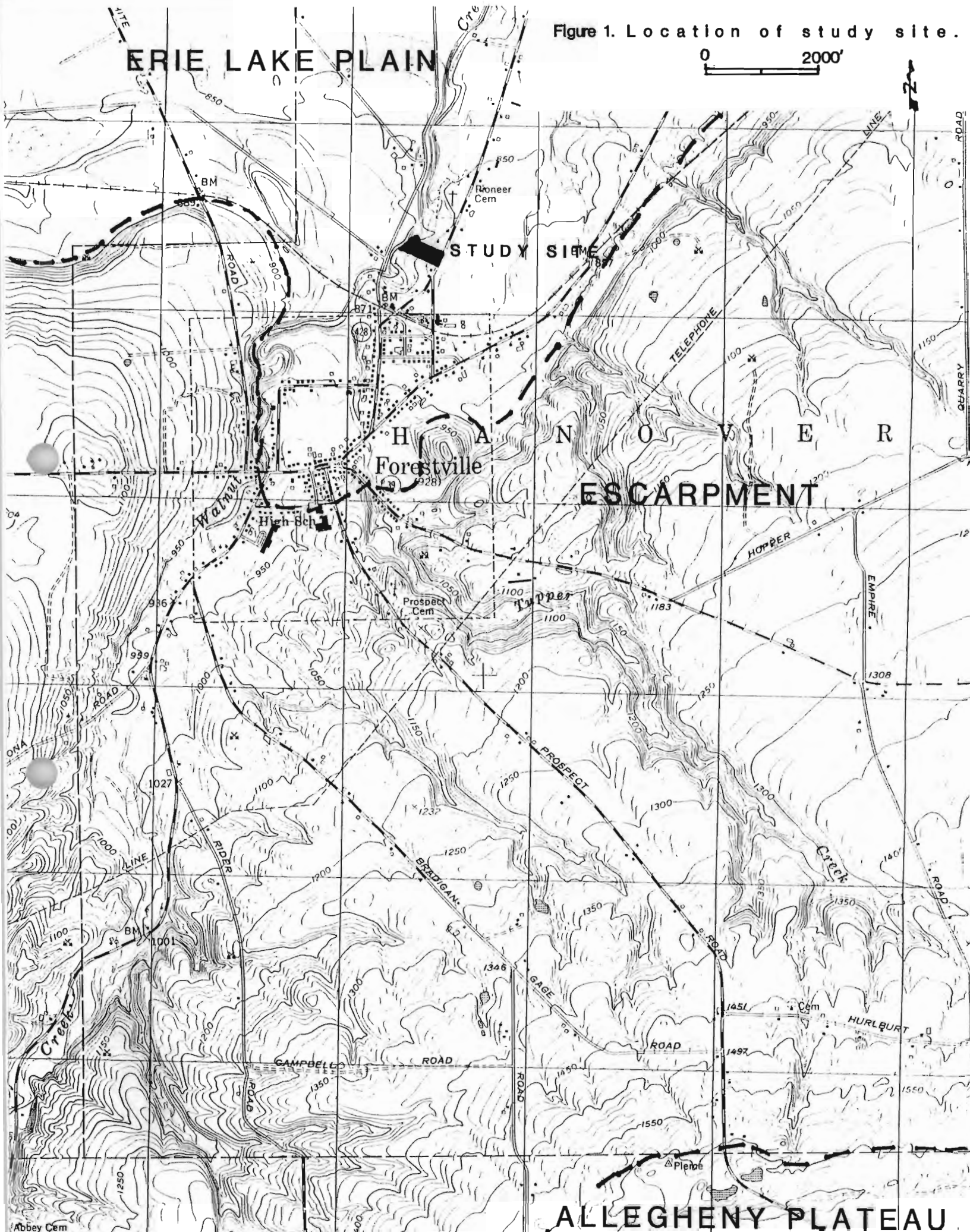
S. S. Harrison

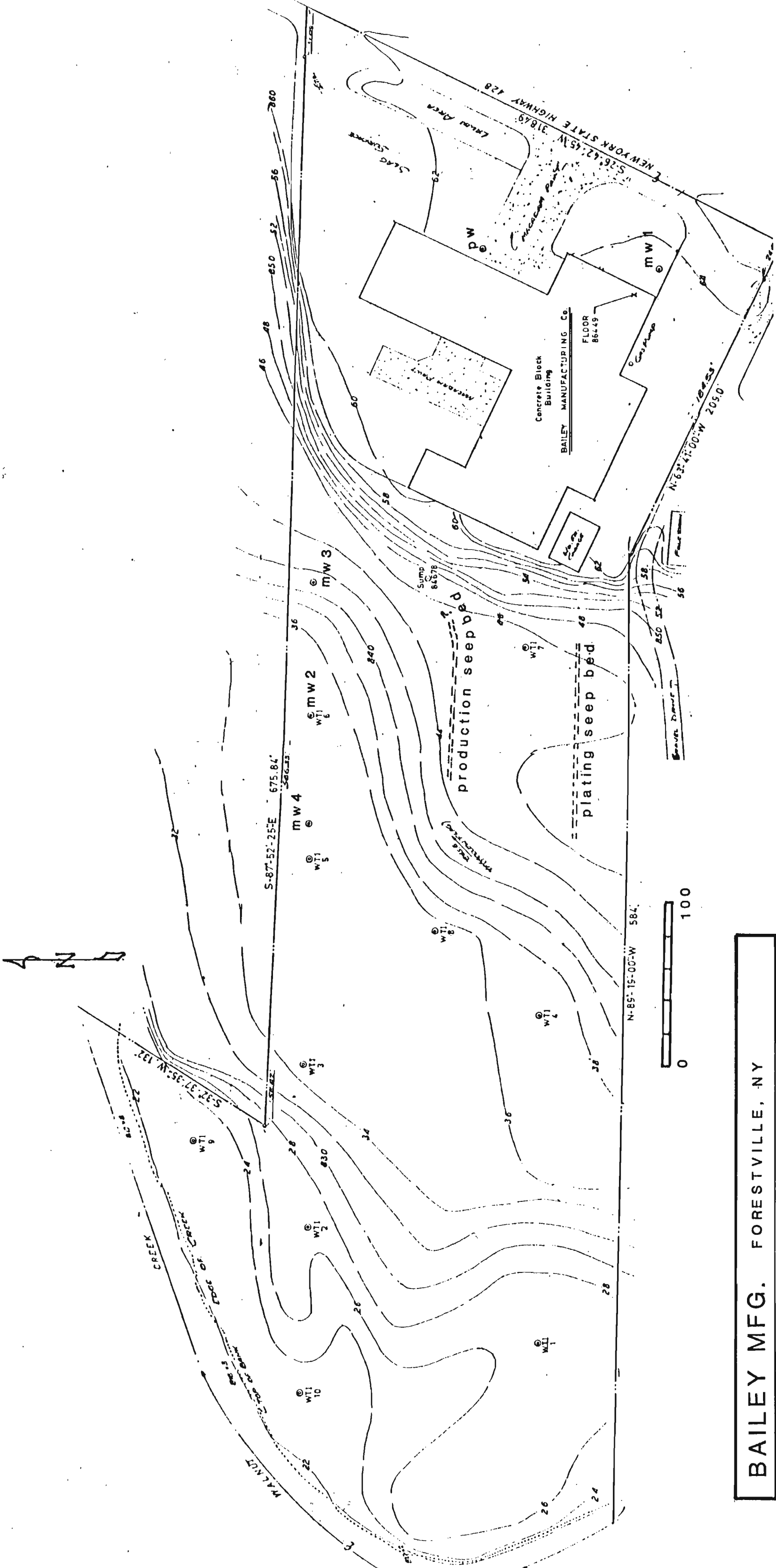
RECEIVED

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N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
ENVIRONMENTAL ENFORCEMENT
BUFFALO FIELD UNIT

Figure 1. Location of study site.

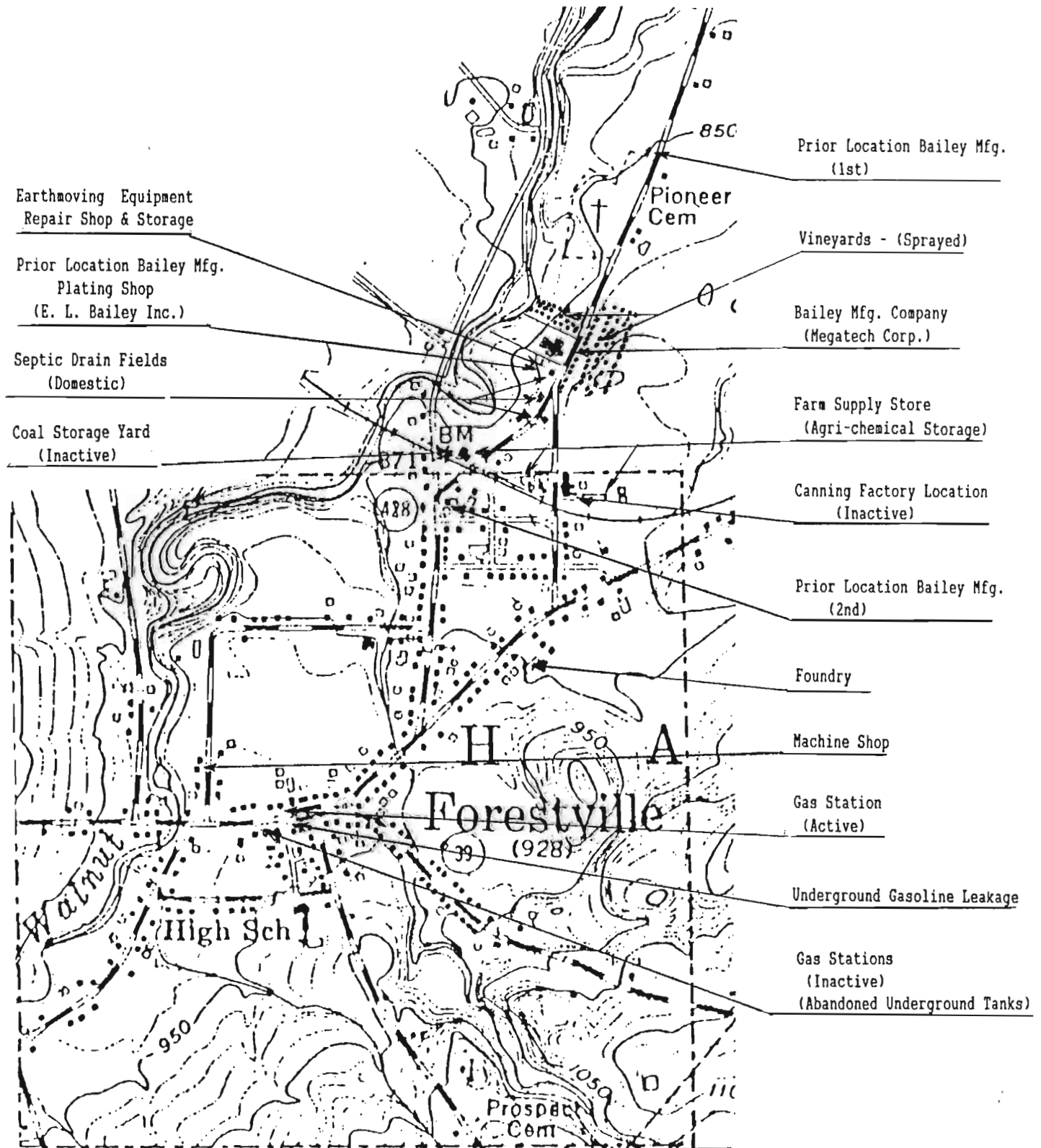




BAILEY MFG. FORESTVILLE, NY	
SAMUEL S. HARRISON,CPG #2573, CGWP #177	
Topography of study site and location of the plant, seepage beds, and monitoring wells. WT1=water table indicator well pw=production well mw 2 =monitoring well	Fig. No. 2
	Date: 2/88

Figure 3. Land use in the vicinity of Bailey Mfg.

0 1000'



(supplied by Donald E. Cook)

SAMUEL S. HARRISON, PH.D.
CERTIFIED PROFESSIONAL GEOLOGIST

337-0175 HOME
724-4844 OFFICE

R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: SSH, MR

Weather: _____

Other: _____

Date: 7/27/87

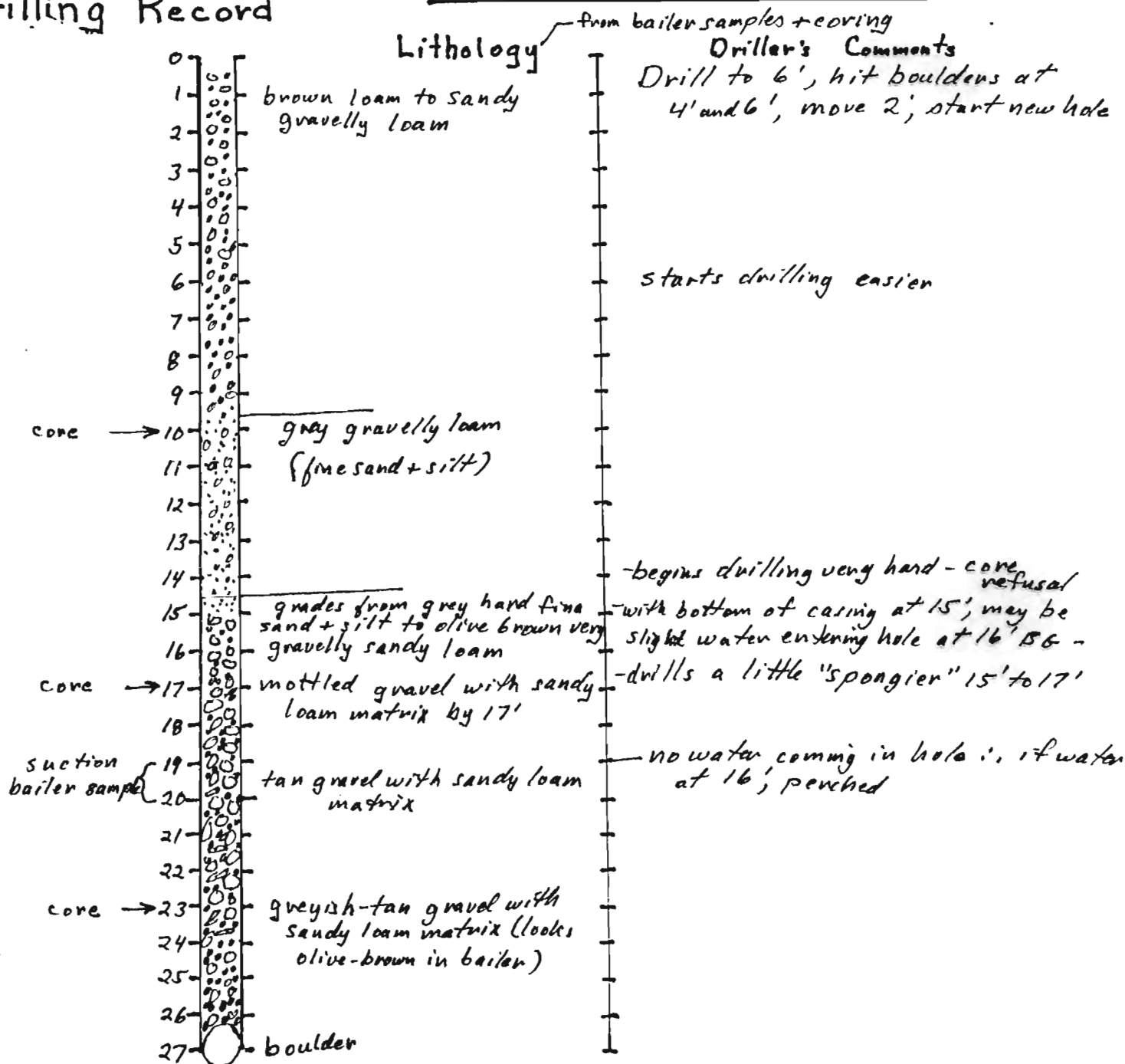
Location: Bailey Mfg.

Well No. MW#1

Sheet 1/3

Time Start _____ End _____

Drilling Record



Casing 8"

#1 6.67'
#2 5.83'
#3 6.19'
#4 5.20'
#5 6.60'
#6 5.99'
#7 5.64'
42.12'

Tank Water

Vineyard across road (75') sprayed today

BAILEY MFG. FORESTVILLE, NY

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Monitoring well 1

Fig. No. **4**

Date:

drilling record.

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337-0175 HOME
724-4844 OFFICE

R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: S.S. Harrison
M. Burch
Weather: _____
Other: _____

Date: 7/87
Location: Barley Mtg.
Well No. MW#1
Sheet 2/3
Time Start _____ End _____

Drilling Record

		Lithology	Driller's Comments
end of 7/28	27		
CORE →	28	olive-tan gravel with sandy loam matrix	
	29		
	30		
	31		
	32	bailers sample - same as above	
CORE →	33	greyish tan (mottled) gravel with sandy loam matrix	
	34		
	35	grades to tan gully, sdy. loam (less grl. than above)	
	36		
	37		
	38		
	39	Boulder	
	40		
bottom 8" casing	41	mottled gray + rust gravel w/ sandy loam matrix - may be gully, sdy, loam	
CORE →	42		
	43		
	44	brown gully, sdy. loam greyish-tan gully, sdy. loam	no water yet
d of 1/29	45	blue-gray dense gully, sdy. loam to grl. w/ sdy, loam matrix	drill ahead of 8" about 4'
	46		
	47	Boulder - greenish-gray gully, loam	cohesive - drill ahead ~3', bail out to 47', noticeable recovery
Suction bailer sample	48		
	49	grey fine gully, sdy. loam	
	50		bailed, no noticeable recovery
	51		
	52		
	53	olive fine gully, loam-cohesive	drill ahead 3ft
	54		

Casing 6" #1	9.82'
#2	10.18'
#3	9.66'
#4	9.46'
#5	9.92'
#6	5.17'
#7	5.19'
#8	4.85'
	63.65'

Tank Water
7/30/87 23° 340
cond.

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R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: J.S. Harrison

M. Burch

Weather: _____

Other: _____

Date: 7/31/87

Location: _____

Well No. MW#1

Sheet 3/3

Time Start _____ End _____

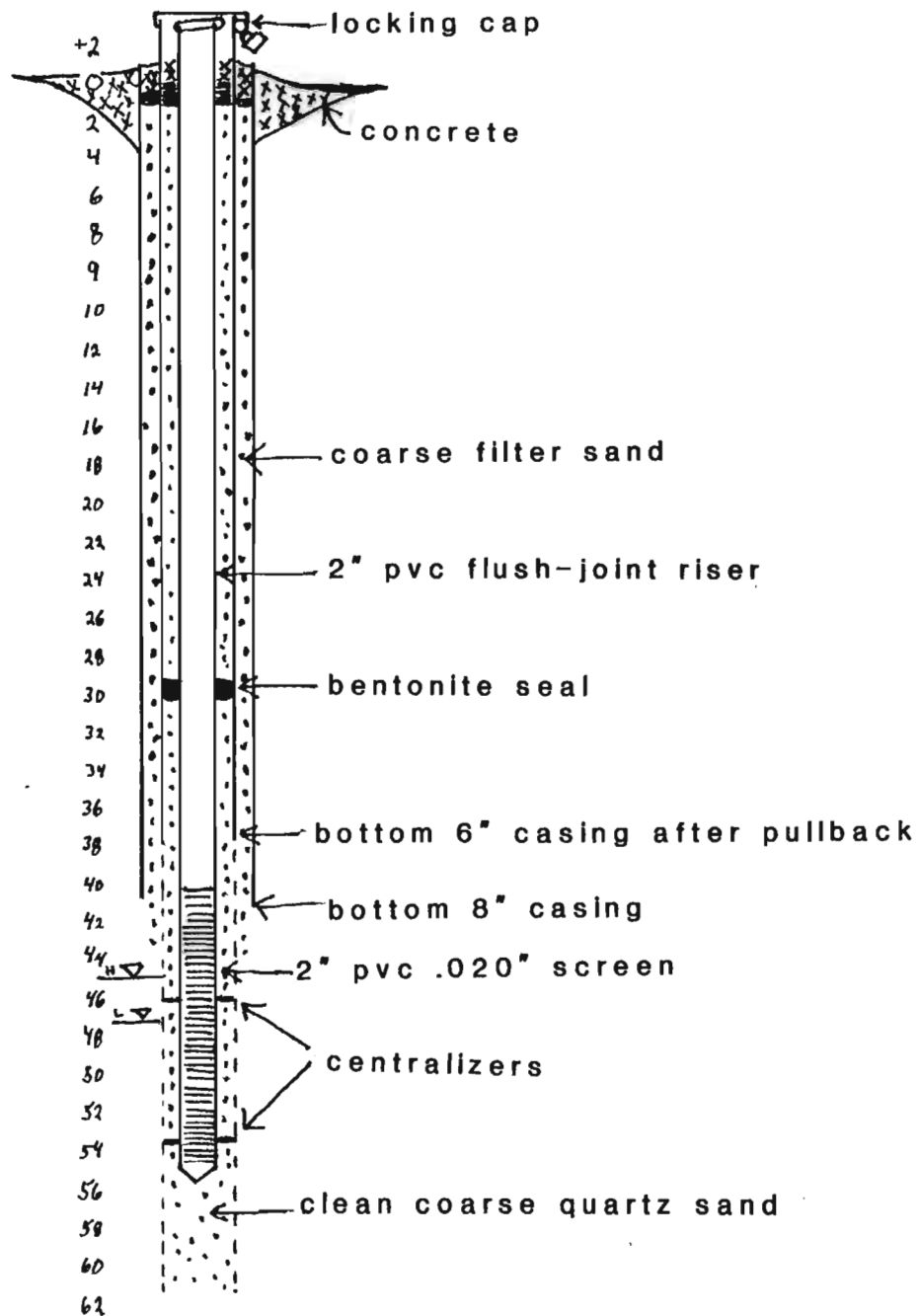
Drilling Record

Temp. Conductivity	Lithology	Driller's Comments
54		
55		
18 1/2 °C 370 Sample → 56		
57		
19° 405	58 suction bailer sample (olive grey gully. loam)	drills very hard - drove pipe 3" drill/3" bailed 20 minutes, yield ~5 gpm
16° 440	59	
13° 475 after bailing	60 suction bailer - grey fine gr. + sdy. loam	- static at 55' at end of 7/30/87
	61 - increasing clay w/ shale granules	- static 46.39 BG 7:30 AM 7/31/87
	62 suction bailer - shale granules, few are rounded, must be close to bedrock	- drilling a little easier
	63 TD 62.8'	- change - drills like clay

Casing

Tank Water

Monitoring Well No. 1



BAILEY MFG. FORESTVILLE, NY	
SAMUEL S. HARRISON, CPG #2573, CGWP #177	
	Fig. No. 5
	Date:

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724-4844 OFFICE

R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: S. Harrison

M. Barak

Weather: _____

Other: 14'E of WTI# 6

Date: 8/3/87

Location: Maple Lane (Bailey)

Well No. MW# 2

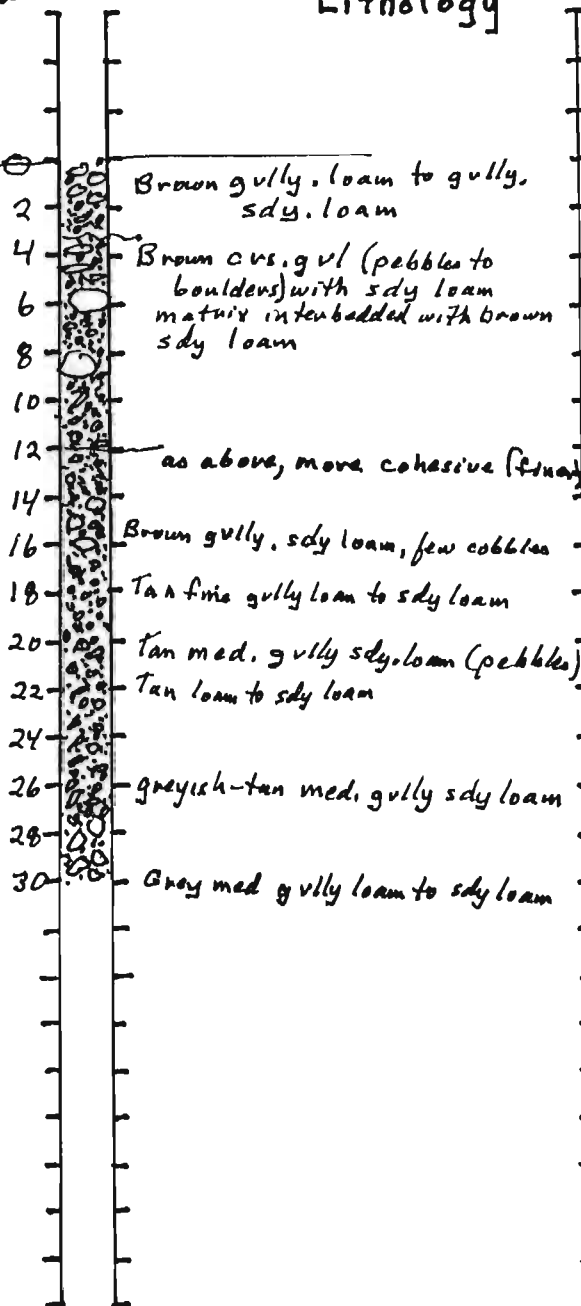
Time Start _____ End _____

Drilling Record

1st Conductivity sample

Lithology

Driller's Comments



Top 16' of hole dug with backhoe due to large boulders

Bottom of 8" set in backhoe pit. Start drilling with 6" casing

no water apparent - can drill ahead ~ 1 ft making some water - more cohesive switch to suction bailer at 26'

can drill ahead ~ 1 ft

Casing

Tank Water

BAILEY MFG. FORESTVILLE, NY

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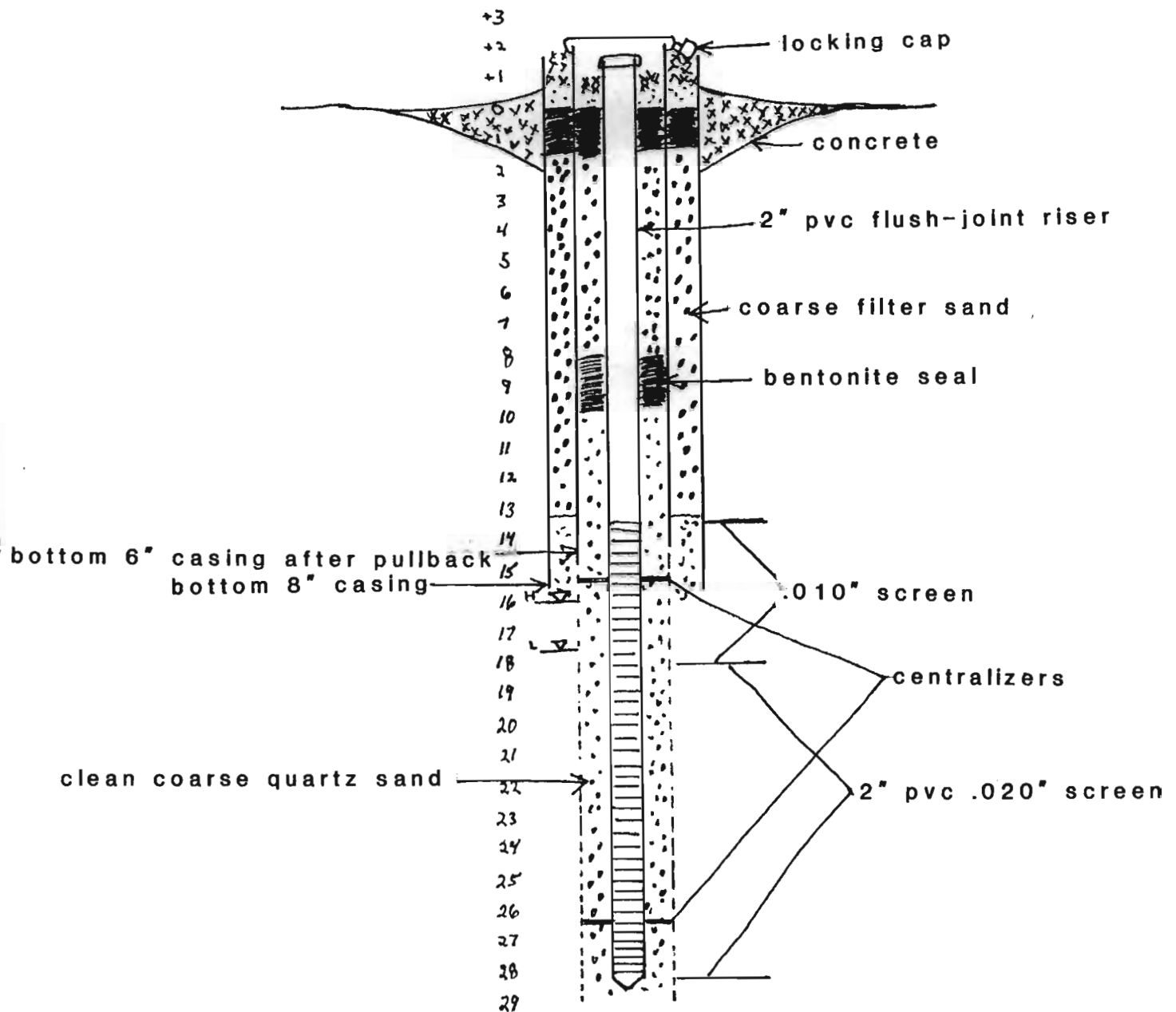
Monitoring well 2

Fig. No. **6**

Date:

drilling record.

Monitoring Well No. 2



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SAMUEL S. HARRISON, CPG #2573, CGWP #177	
	Fig. No. 7
	Date:

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724-4844 OFFICE

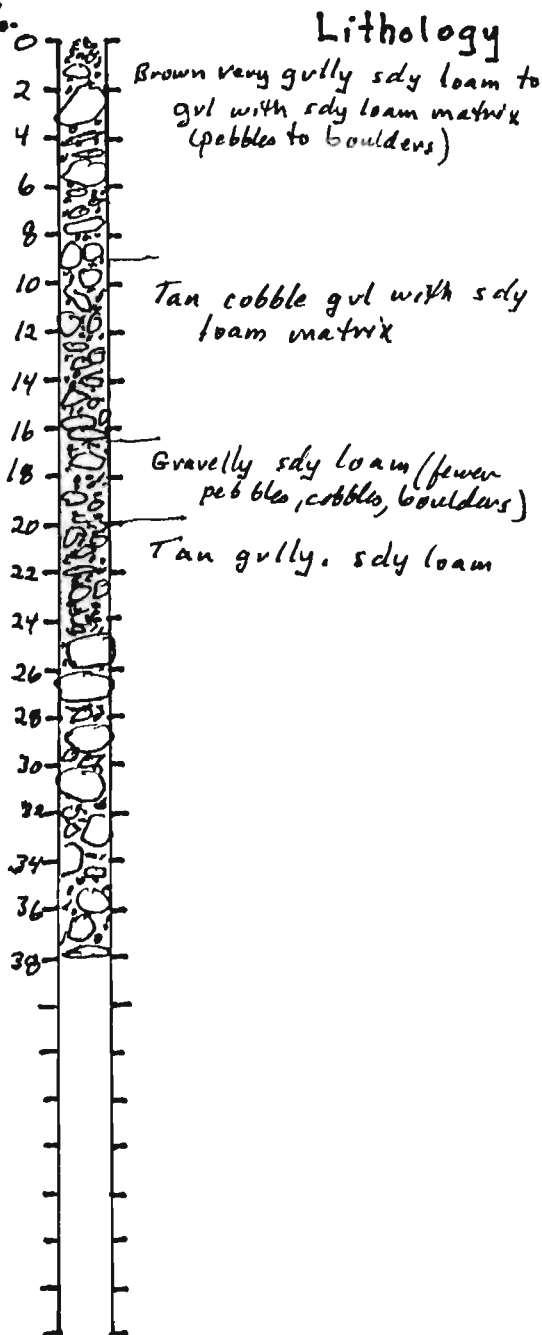
R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: S. Harrison
M. Barch
Weather: overcast, 80°F
humid
Other: _____

Date: 8/5/87
Location: Megatech (Bailey)
Well No. MW3
Time Start _____ End _____

Drilling Record

Temp. Conductivity sample



Driller's Comments

Ground temporarily removed
with front loader

Pit dug with
backhoe due
to large boulders

Casing

Tank Water

BAILEY MFG. FORESTVILLE, NY

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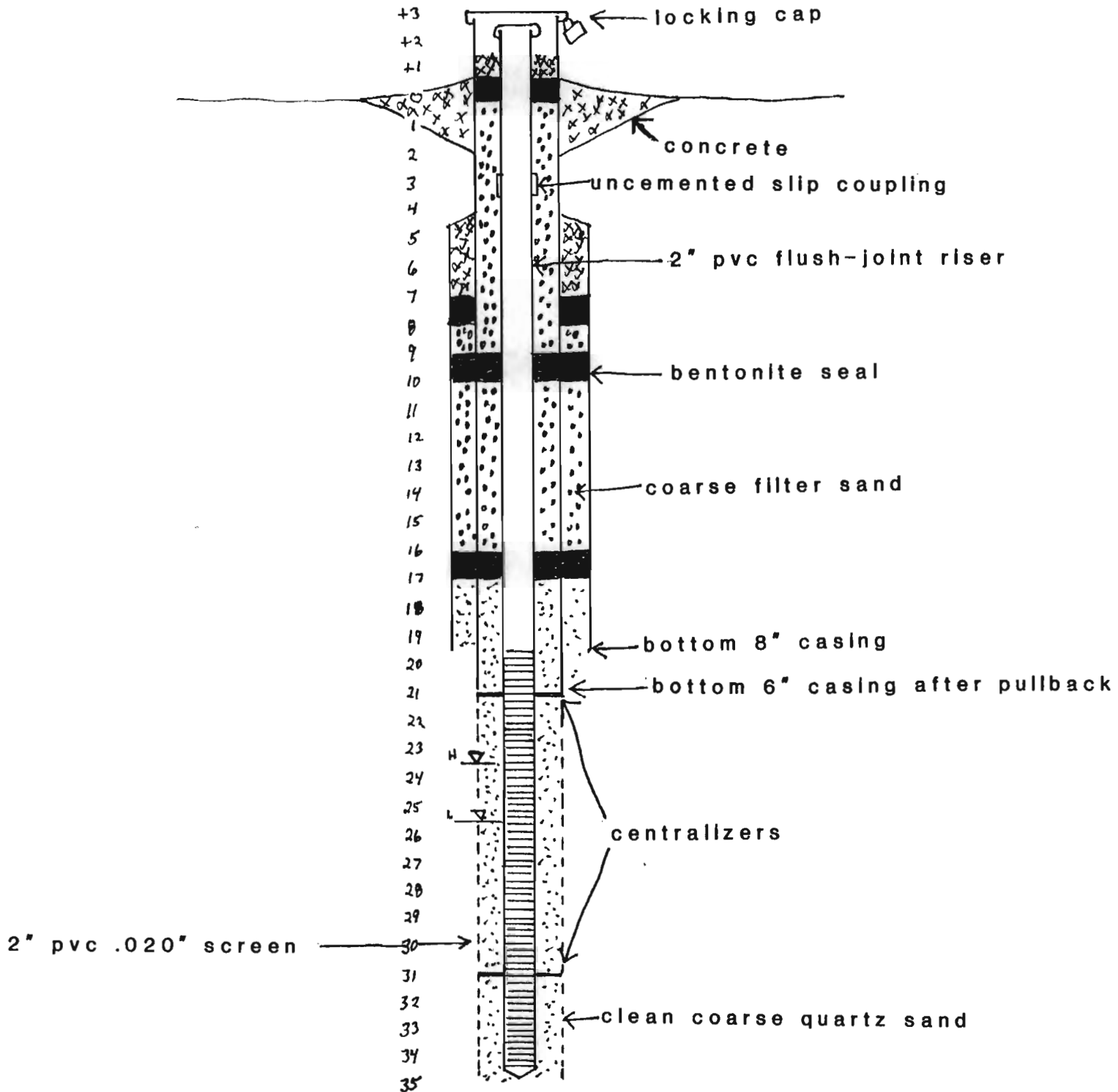
Monitoring well 3

Fig. No. 8

drilling record.

Date:

Monitoring Well No. 3



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SAMUEL S. HARRISON, CPG #2573, CGWP #177

Fig. No. 9

Date:

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CERTIFIED PROFESSIONAL GEOLOGIST

337.0173 HOME
724-4844 OFFICE

R.D. 1 MAPLE LANE ACRES
SAEGERTOWN, PA 16433

Workers: S.S. Harrison

M. Burch

Weather: overcast, 72°F

Other: _____

Date: 8/6+7/88

Location: Megateah (Bailey)

Well No. MW 4

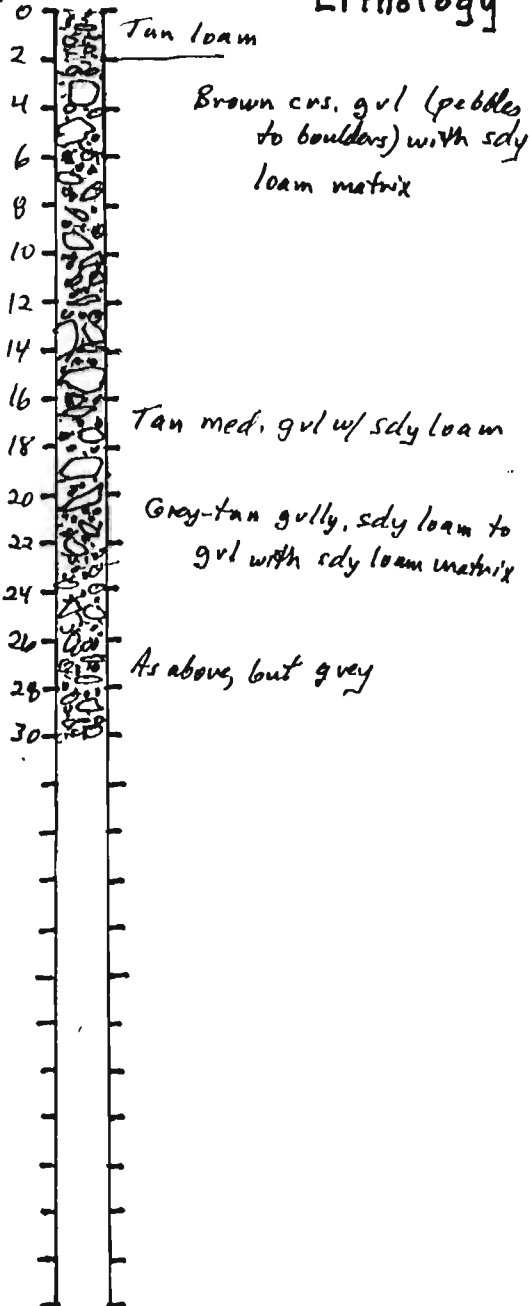
Time Start _____ End _____

Drilling Record

Temp. Conductivity Sample No.

Lithology

Driller's Comments



Top 15' excavated with backhoe,
8" pipe set in hole + backfilled
hole.

lots of water - suction bailer

Casing

Tank Water

BAILEY MFG. FORESTVILLE, NY

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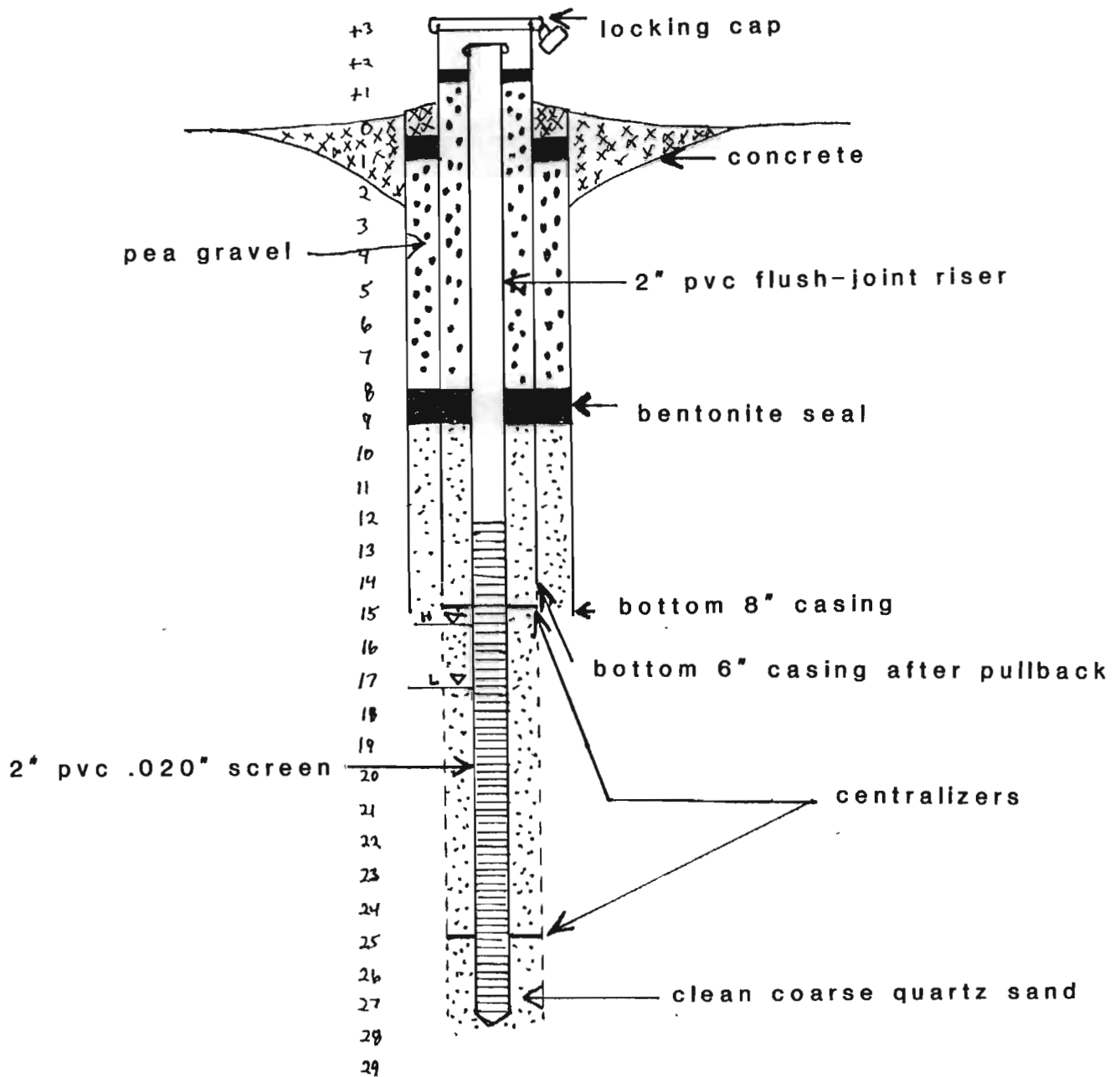
Monitoring well 4

Fig. No. **10**

drilling record.

Date:

Monitoring Well No. 4

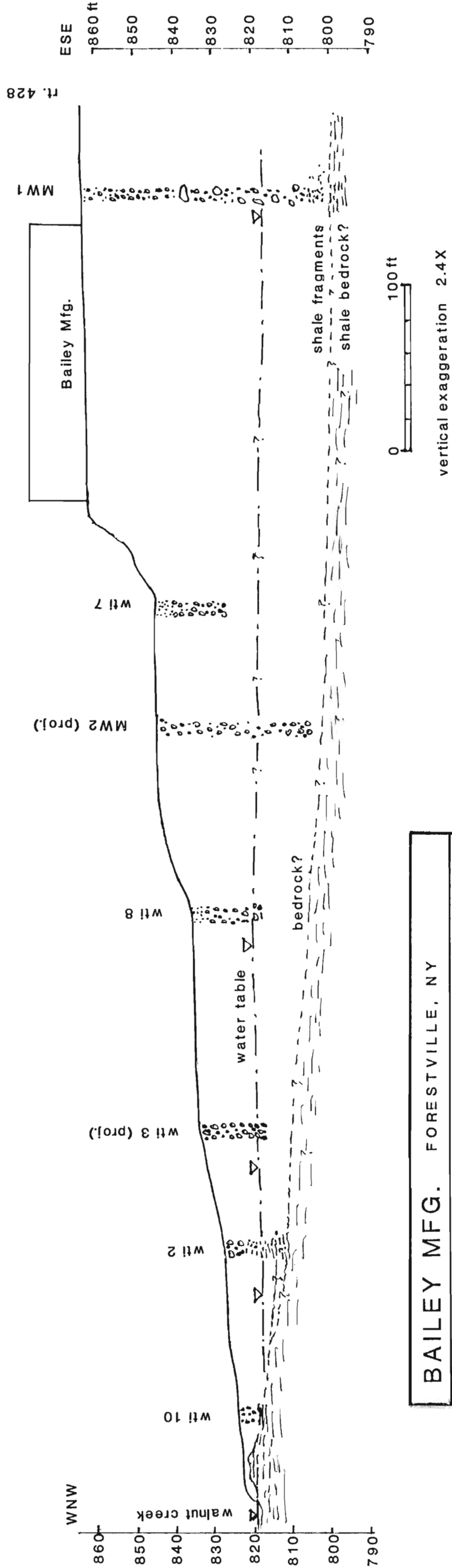


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Fig. No. 11

Date:



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Cross section showing lithology, approximate bedrock surface, and water table.	Fig. No. 12
	Date:
	8/6/87 water table data

820

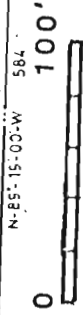


SAMUEL S. HARRISON, CPG #2573, CGWP #177

Fig. No. 13

Date:	

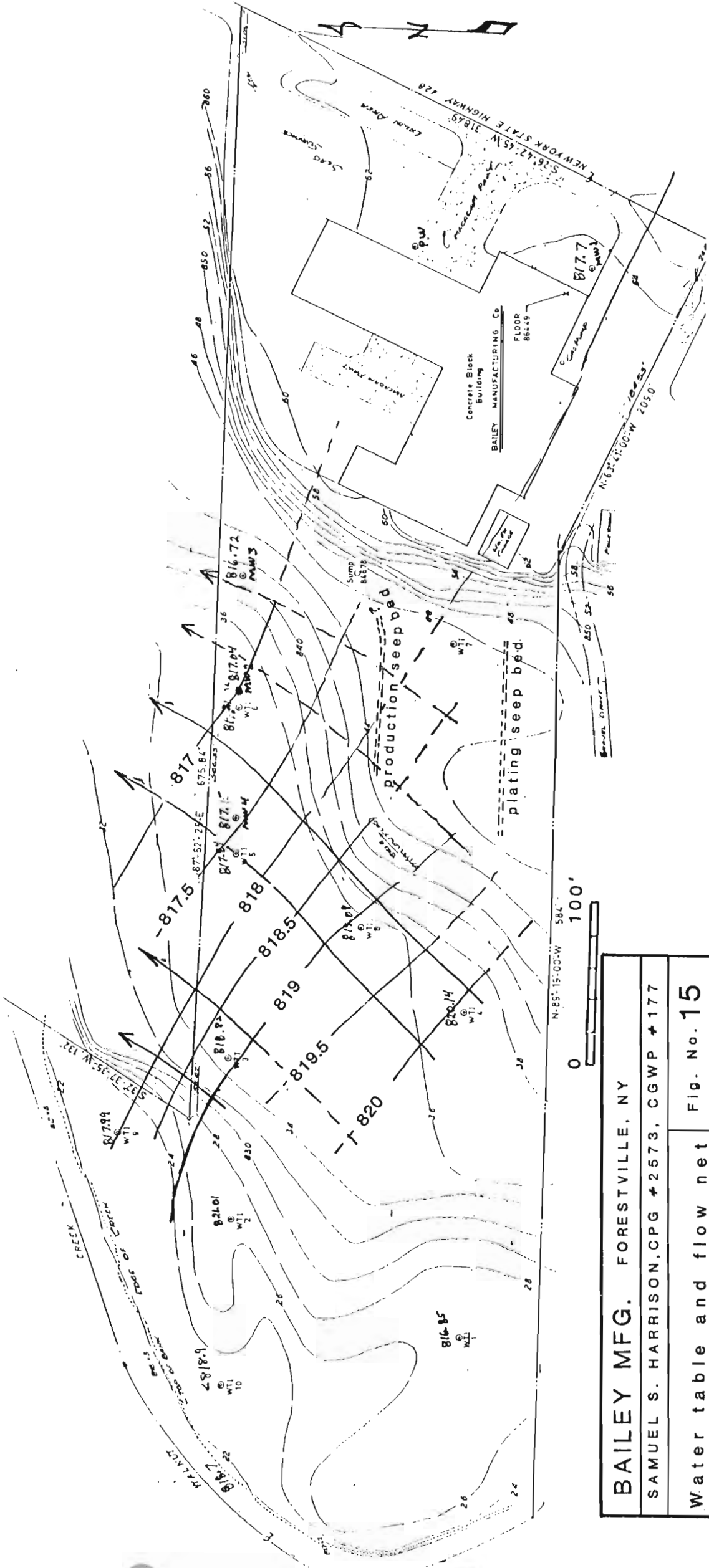
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SAMUEL S. HARRISON, CPG #2573, CGWP #177

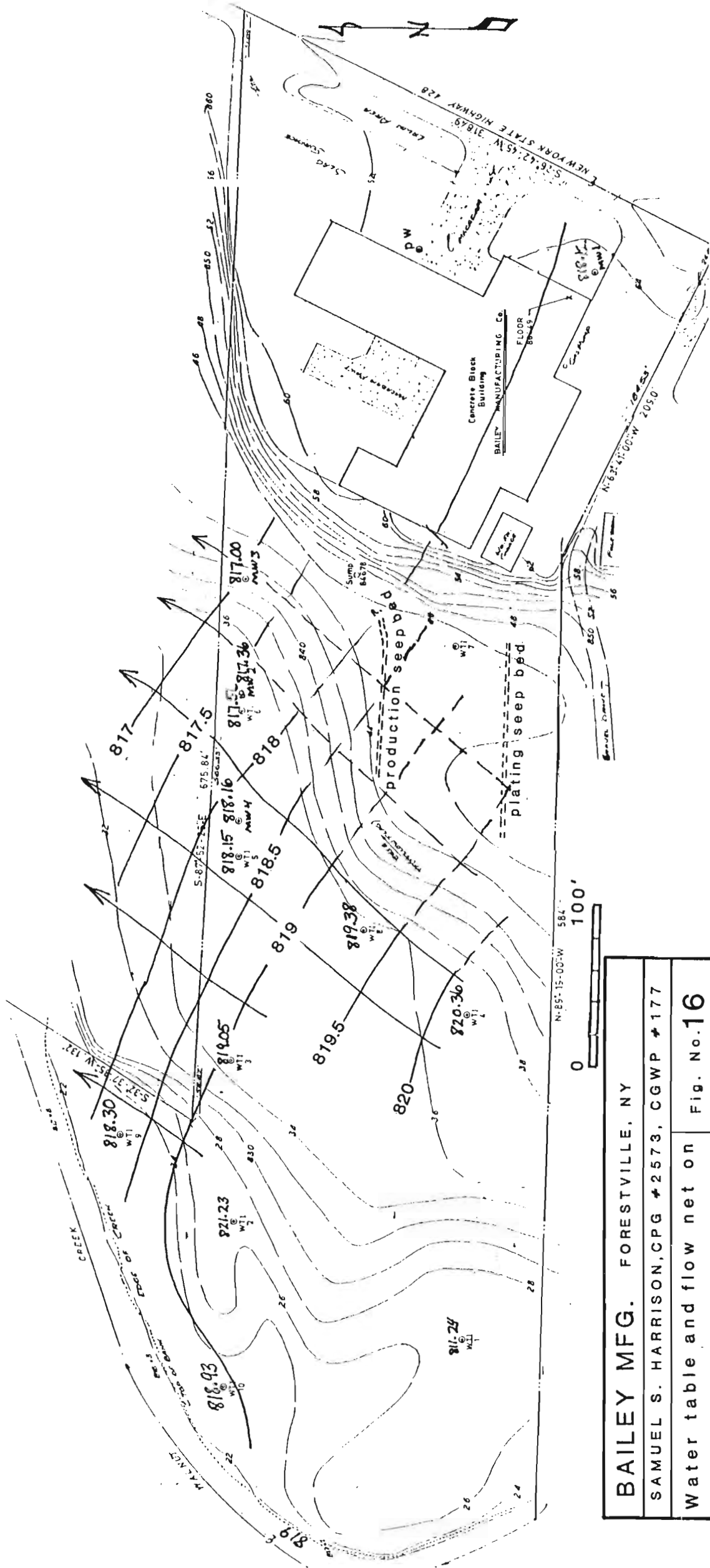
Date:

WATER TABLE CONTOUR — 820 —
 ↑
 DIRECTION OF GROUNDWATER FLOW



BAILEY MFG. FORESTVILLE, NY	
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Water table and flow net on 9/28/87.	Fig. No. 15
	Date:

WATER TABLE CONTOUR — 820 —
DIRECTION OF GROUNDWATER FLOW



BAILEY MFG. FORESTVILLE, NY	
SAMUEL S. HARRISON, CPG #2573, CGWP #177	
Water table and flow net on 10/31/87.	Fig. No. 16
	Date:

820



SAMUEL S. HARRISON, CPG #2573, CGWP #177

Date:

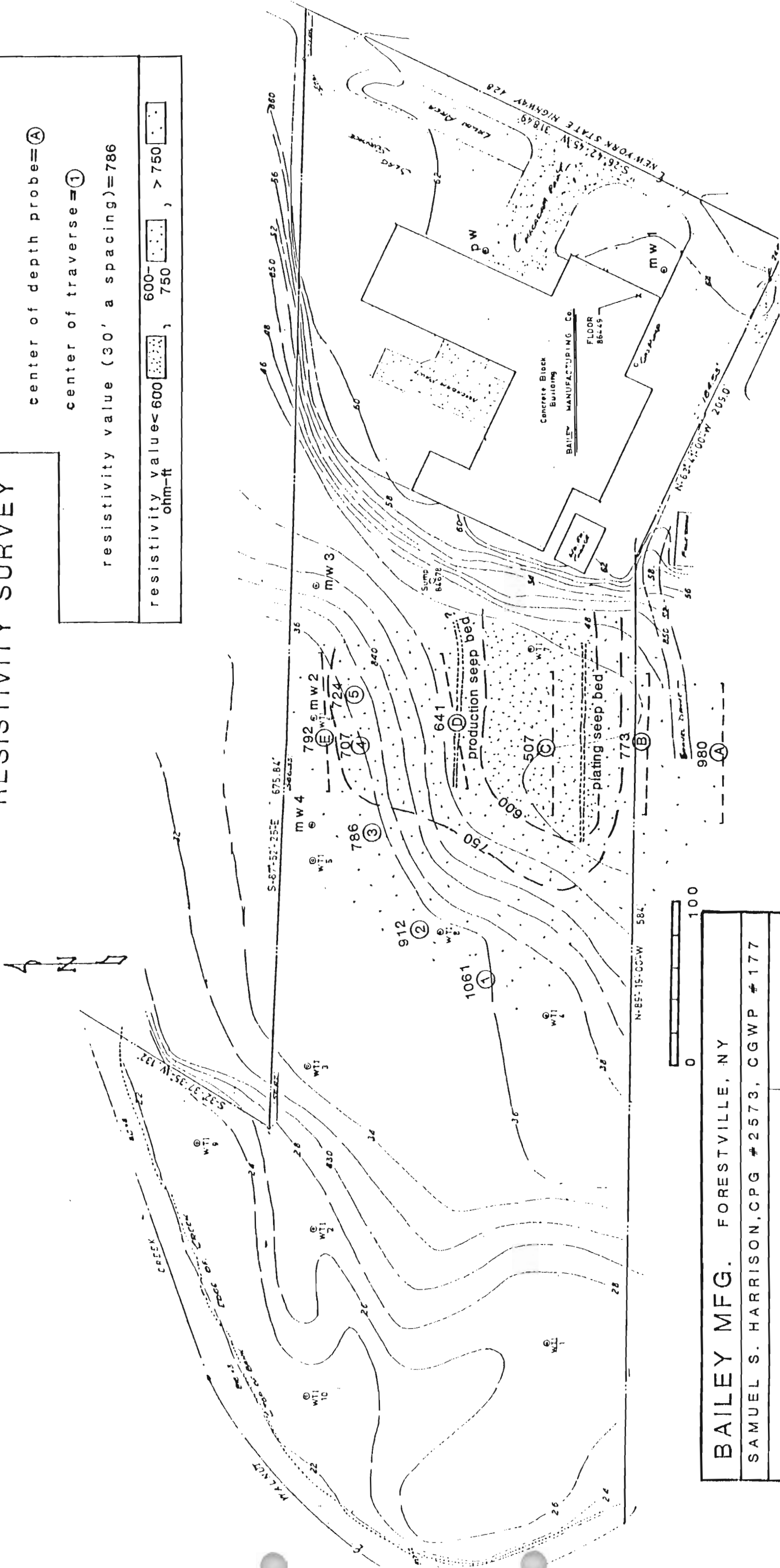
RESISTIVITY SURVEY

center of depth probe=**A**

center of traverse=**1**

resistivity value (30' a spacing)=786

resistivity value < 600 ☐ , 600- ☐ , 750 ☐ , > 750 ☐



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Horizontal traverse (profile) using
30' electrode spacing.

Fig. No. 18

Date:

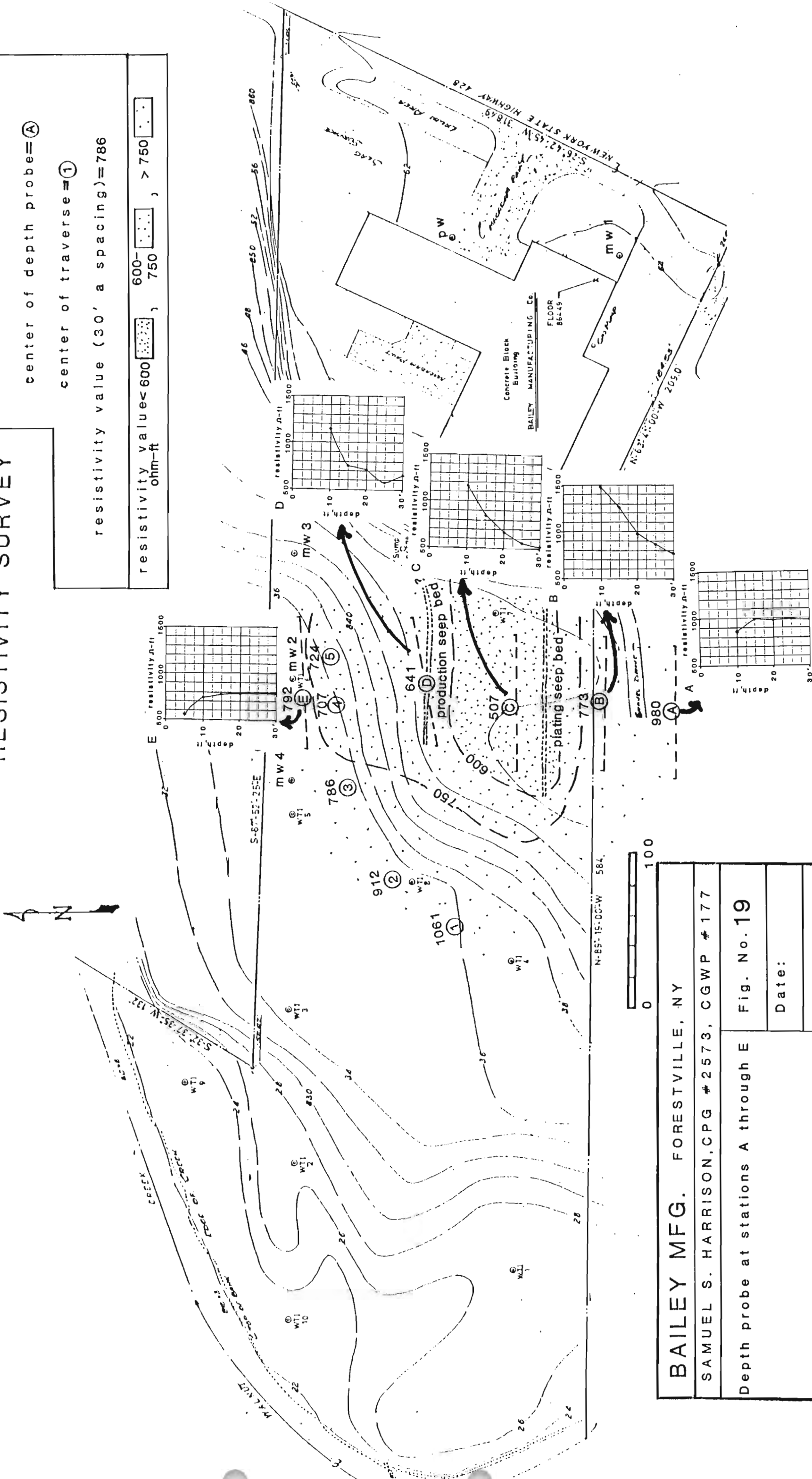
RESISTIVITY SURVEY

center of depth probe=**A**

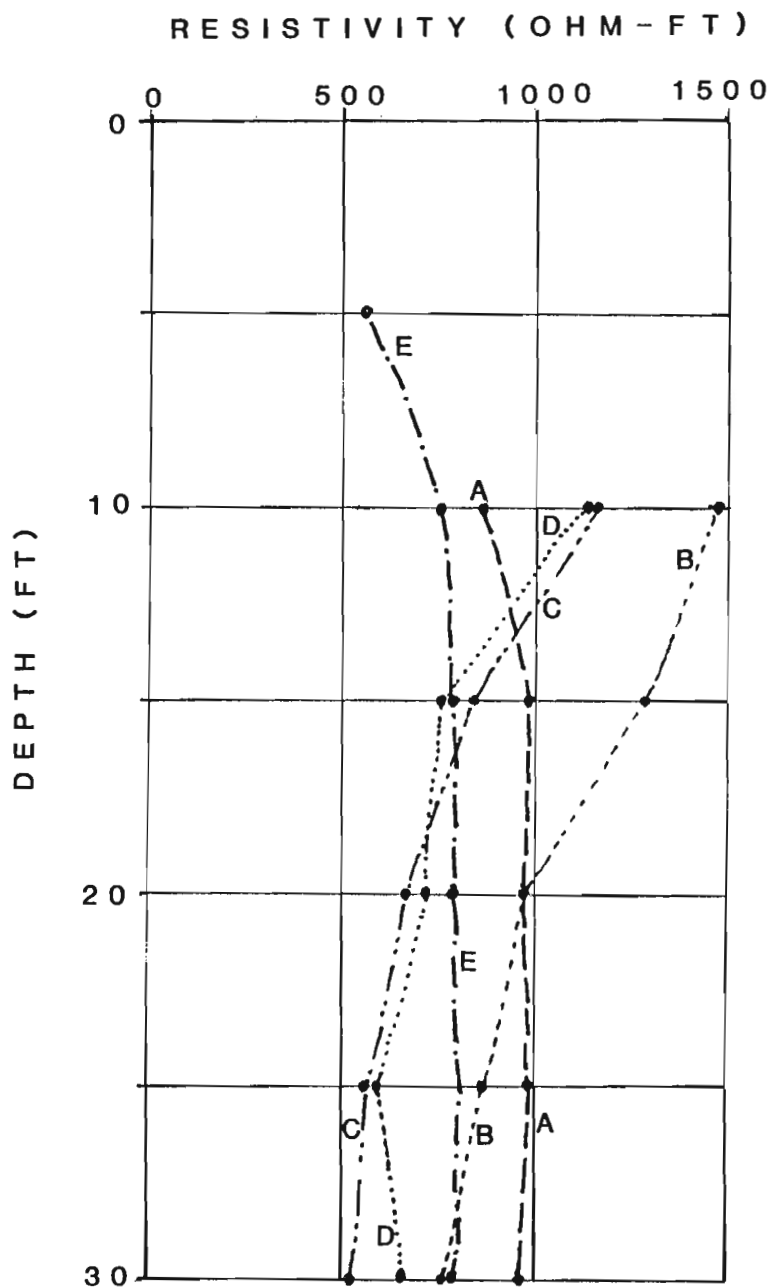
center of traverse=**1**

resistivity value (30' a spacing)=786

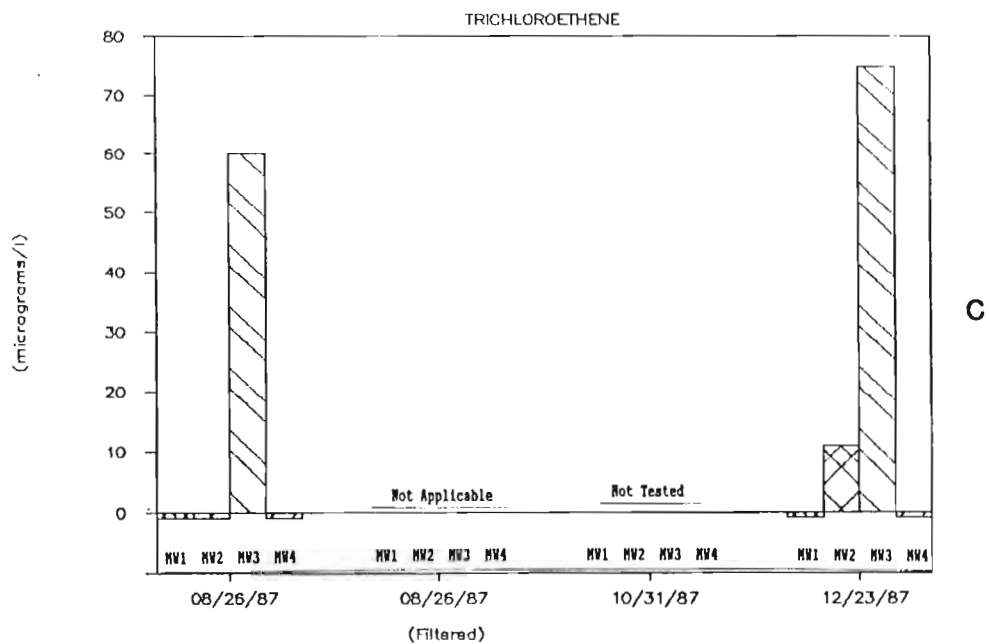
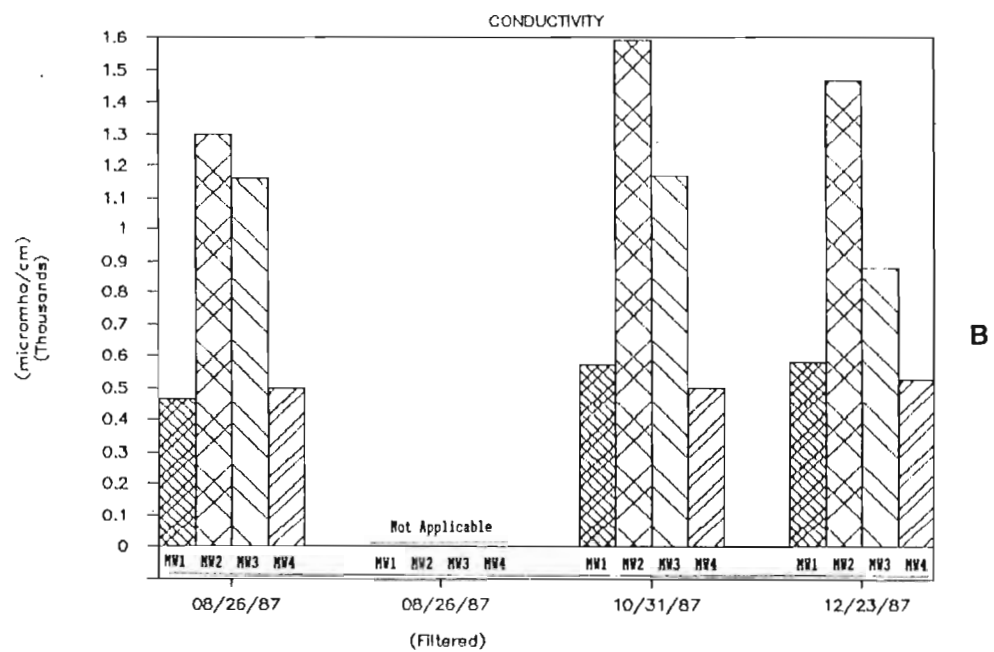
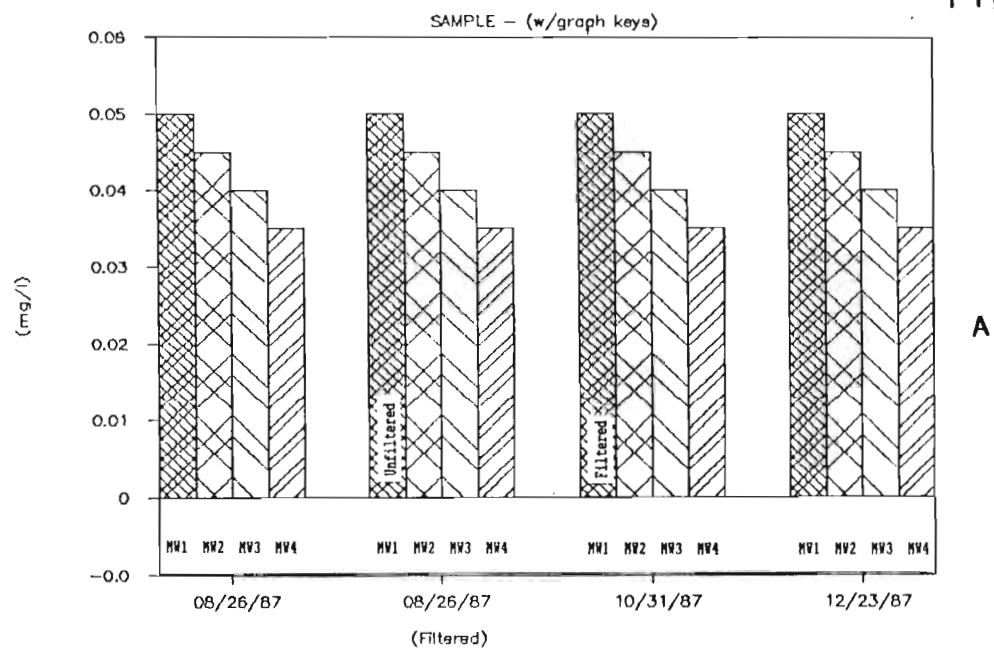
resistivity value < 600 ☐ , 600- ☐ , 750 ☐ , > 750 ☐

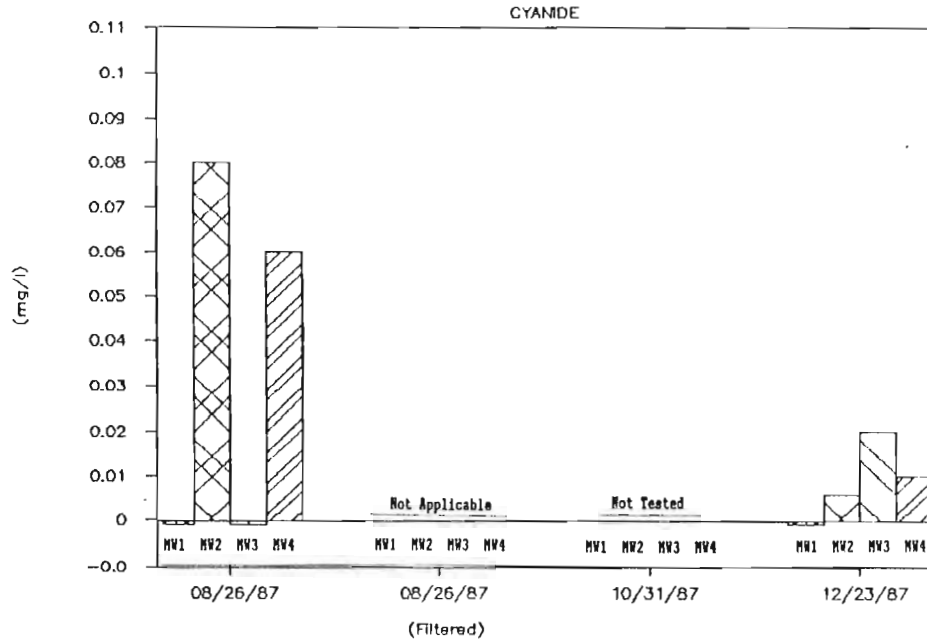


BAILEY MFG. FORESTVILLE, NY	
SAMUEL S. HARRISON, CPG #2573, CGWP #177	
Depth probe at stations A through E	Fig. No. 19
	Date:

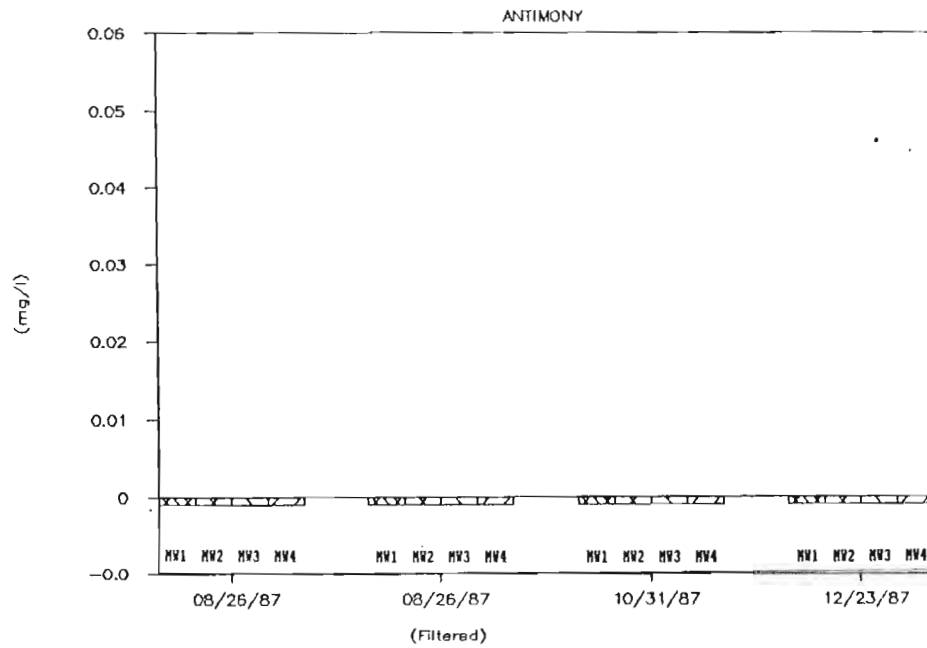


BAILEY MFG. FORESTVILLE, NY	
SAMUEL S. HARRISON, CPG #2573, CGWP #177	
Resistivity depth probe data, stations A through E	Fig. No. 20 Date:

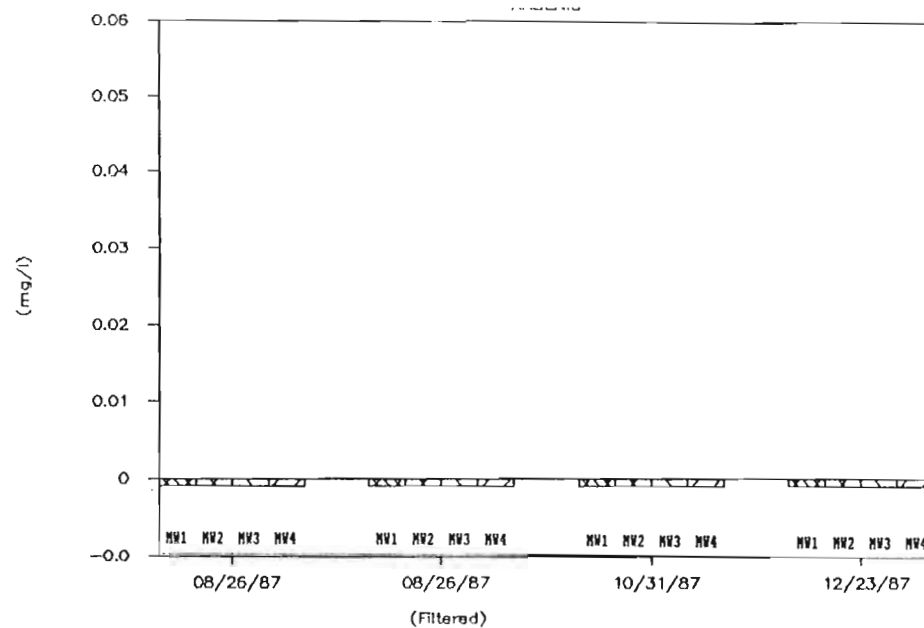




A



B



C

