#22795 Project No. 1938
Bronson Water
1

DRILLER'S NOTEBOOK

WELL RECORD

Driller Marty Soole

Address Bronson, Iowa

Owner Town of Bronson

Tenant

Address

Test Well - Drilled
Feb. and March, 1971
Test pumped 3/9/71

RETURN TO

IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

#22795

WELL RECORD

Well is located N/E ____ miles S and ____ miles S from N/E W/W

____ in ____ (Nearest Town) (County)

SE, NE ¼ NW ¼ Sec. 22 T. 28N R. 45W

Owner ____ Well No. ____

Postoffice address ____

Contractor ____

Address ____

Driller ____

Well begun ____, 19____;

completed ____, 19____

Rig used—Cable, (Rotary), Jet, or ____

Depth of well ~~213~~ 235 (Feet)

Size of hole (note total amount of each size) ____

____

Main water supply at ____ (Feet below surface)

Final water head 96' below surface (Feet above or below surface)

Is well pumped? ____

Yield 35 (Gallons per minute)

Water level when pumping 103'

Position of well ____ (Upland, valley, side hill, etc.)

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type° and Weight of Pipe	DIAGRAM OF WELL

°As cast, wrought iron, steel, concrete, etc.

Is screen used? Yes Diameter 4¾ (Inches)

Length 4' (Feet) Depth to bottom 213'

Depth to top 209' Slot size .35 slot

Are packers or seals used? Yes

Kind neoprene

Where used Top of screen

Kind of pump 2 HP Sub. Dia. 3¾ (Inches)

Capacity of pump 35 GPM. (g.p.m.)

Power used 230 volt (Kind and amount)

Depth to bottom of pump line 126' feet,

including ____ feet tailpiece.

Remarks on construction of well ____

Johnson Stainless steel screen

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	81		yellow clay
	81	82		yellow sand
	82	128		yellow clay
	128	130		fine yellow sand
	130	146		yellow clay few stks fine sand
8" mud loss	146	153		yellow sand med. To coarse
1" mud loss	153	157		med To fine sand little clay
	157	159		yellow sandy clay
	159	170		light gray to yellow clay few stks fine sand
	170	176		light yellow clay, sandy
	176	178		few stks fine yellow sand
	178	185		yellow clay sandy
	185	191		Dark gray clay
4" mud loss	191	202		fine yellow sand
2" mud loss	202	229		med yellow sand little coarse
6" mud loss	229	231		rocks
	231	234		light gray shale

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa
WELL OR WATER SAMPLE DATA

Bottle No. I 321

I.G.S. Well No. _____

TOWN Bronson Iowa COUNTY Woodbury

LOCATION _____ sec. 20-21 T. 88 N., R. 45 (W) E. Floyd Twp.

OWNER OF WELL Town of Bronson WELL No. 1

USE OF WATER: (Municipal supply); Private-domestic( ); Public drinking( ); Livestock( ); Industrial( ); School supply( ); Air Conditioning( ); Cooling( ); _____ ( ).

CONTRACTOR Marty Soale Well Drilling DATE STARTED 2-23-71 DATE FINISHED 2-25-71

CASING OR CURBING DATA: (Show by diagram on opposite side of sheet the kind, length and depth of top and bottom of each size of pipe, the amount of overlaps, position of seals or packers, pipe performation and screens, etc.)

WELL DATA

Curb Elevation ____ Ft. Present Depth _____ Ft. Final Depth [redacted] Ft.

Ground Elevation ___ Ft. Topographic Position Hill side

Static Level (Depth to water (~~above~~) (below) curb) 91 Ft. Pumping Level 105 Ft.

Amount of Drawdown 14 Ft. pumping at 40 g.p.m. in 4 ~~minutes.~~ hrs.

Specific Capacity _____ g.p.m. per ft. drawdown in _____ hrs.

Type of Pump Sub. Power 220 v.

Depth of Bottom of Pump 126 ft. with ____ ft. of suction pipe.

TEMPERATURE: Air ____ °F.; Water ___ °F., measured after well had pumped ____ hrs. and ____ mins. at ____ g.p.m.; ____ ft. from pump after water had passed through the following pipe _____ Time _____ (A.M.) (P.M.)

SOURCE OF WATER:

Principal producing formation 108 ft. to 112 ft.

Other producing formations _____ ft. to ____ ft.

REMARKS: (Taste, odor, and appearance) no Taste no odor water is clear

Sample taken for: Mineral analysis (Complete chemical analysis); Sanitary analysis( ).

Data collected by Marty Soale Date 4-30-71

Copies to: Marty Soale well Drilling, Bronson Iowa

Bronson

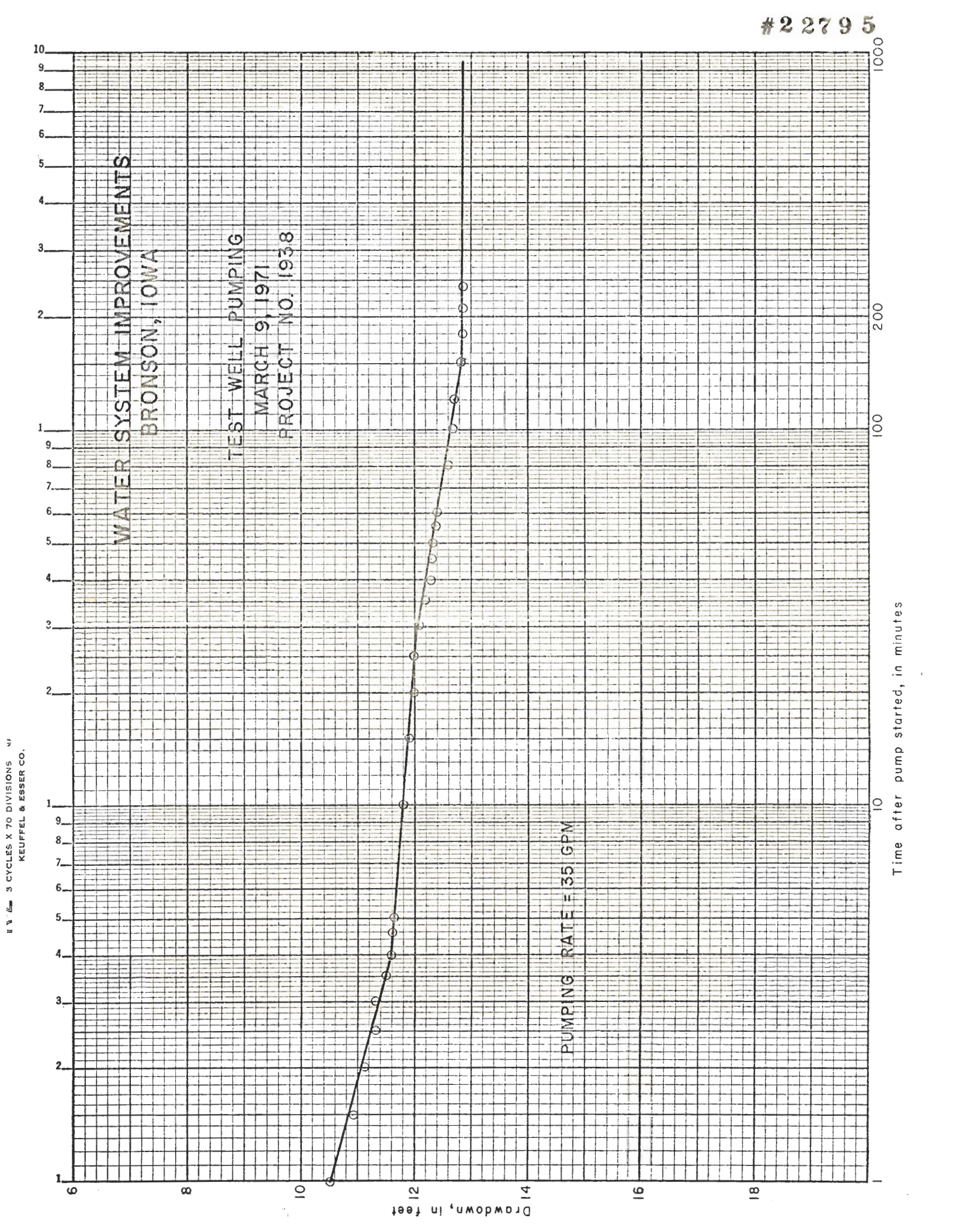
#22795

Pumping test @ 35 gpm

Mark	9:71 A.M.			
	9:40	91.5'	1:42:30	92.17'
	9:40:30	100.4'	1:43	92.17'
	9:41	[illegible]	:30	92.17'
	:30	102.4'	1:44	92.17'
	9:42	102.6'	:30	92.08'
	:30	102.9'	1:45	92.08'
	9:43	102.8'	1:50	[illegible]
	:30	[illegible]	:55	[illegible]
	9:44	103.1'	2:00	91.92'
	:30	[illegible]	:05	91.90'
	9:45	[illegible]	:10	91.81'
	9:50	[illegible]	:15	91.21'
	9:55	[illegible]	:20	[illegible]
	10:00	[illegible]	:25	[illegible]
	:05	[illegible]	:30	91.71'
	:10	[illegible]	:35	[illegible]
	:15	[illegible]	2:40	[illegible]
	:20	103.79'	3:00	
	:25	[illegible]	:20	
	:30	[illegible]	3:40	
	:35	[illegible]		
	10:40	[illegible]		
	11:00	[illegible]		

Pump test run

#22795


WATER SYSTEM IMPROVEMENTS
BRONSON, IOWA
TEST WELL PUMPING
MARCH 9, 1971
PROJECT NO. 1938
PUMPING RATE = 35 GPM
Drawdown, in feet
Time after pump started, in minutes
KEUFFEL & ESSER CO.

#22795

DEWILD GRANT RECKERT & ASSOCIATES CO.
ARCHITECTS ENGINEERS PLANNERS

315 FIRST AVENUE
ROCK RAPIDS, IOWA 51246
TELEPHONE: 712 472 2531

April 6, 1971

Iowa Geological Survey
Geological Survey Building
Iowa City, Iowa 52240

Re: Project No. 1938
Water Improvements
Bronson, Iowa

Gentlemen:

We are enclosing the following items on a test well put down on the above project.

1. One (1) copy, driller's notebook.

2. Electric well log

3. Data relating to drawdown and recovery on a pumping test made on March 9, 1971.

The test well is located approximately 600 feet east and 900 feet north of the west quarter corner of Section 28-88-46. For your information we are also sending by separate mail samples of the strata encountered during the test drilling.

Sincerely yours,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Donald K. Wall, P. E.

IOWA GEOLOGICAL SURVEY
APR 8 1971

DKW:mrw
Enclosure

Town of Bronson

OFFICES: ROCK RAPIDS, IOWA
SIOUX CITY, IOWA

Branson Test Well
Drilled Feb. & March, 1971
Test Pumped 3/9/71

#2295

Widco® WELL LOG

COMPANY Marty Soole - Bronson, Iowa

AREA

WELL Bronson City Well

COUNTY Woodbury STATE Iowa

COORDINATES:
N
S
ELEVATION:
D.F.
K.B.
G.L.

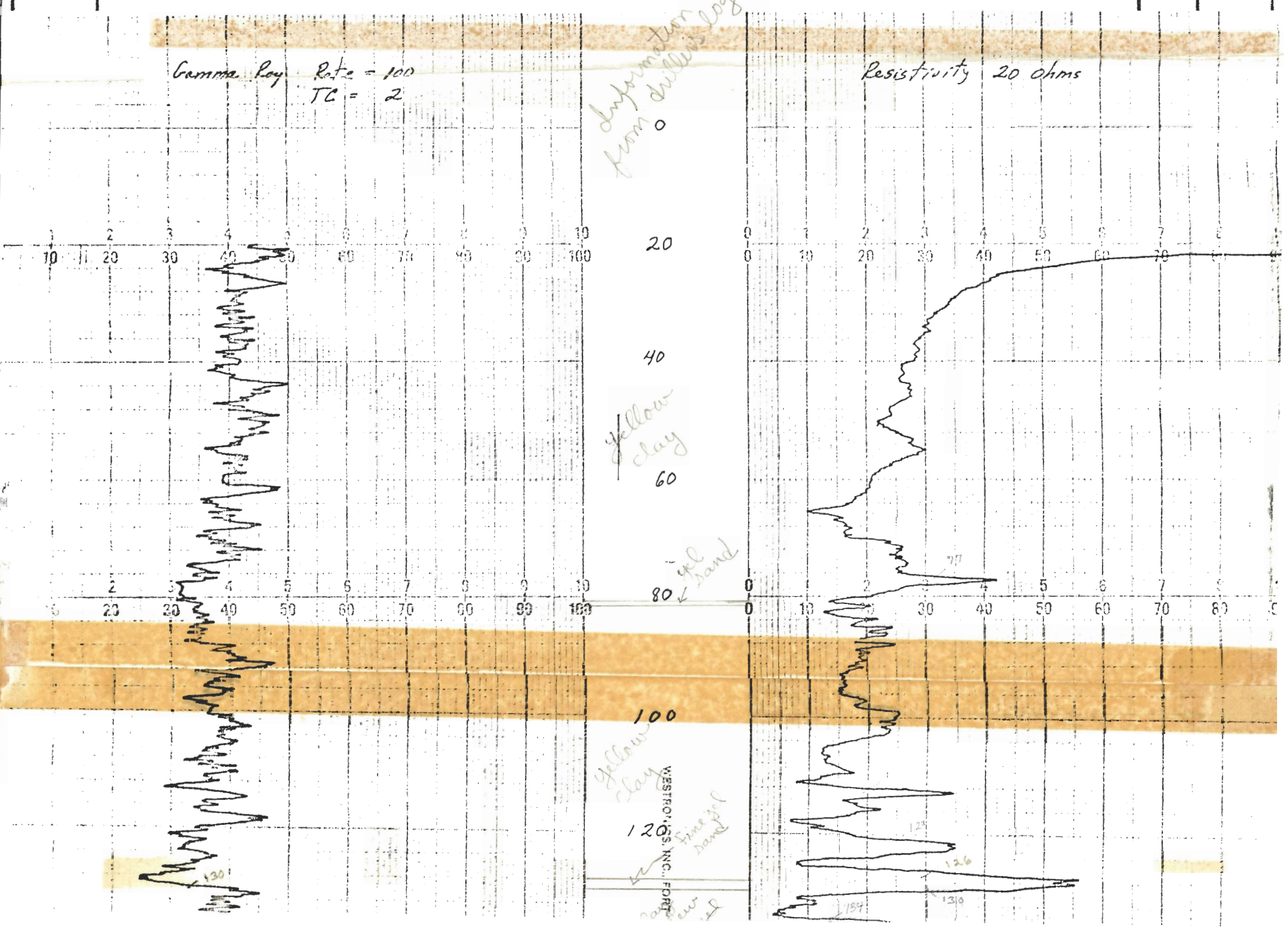
COMPANY Marty Soole
WELL Bronson City Well
LOCATION Bronson, Iowa

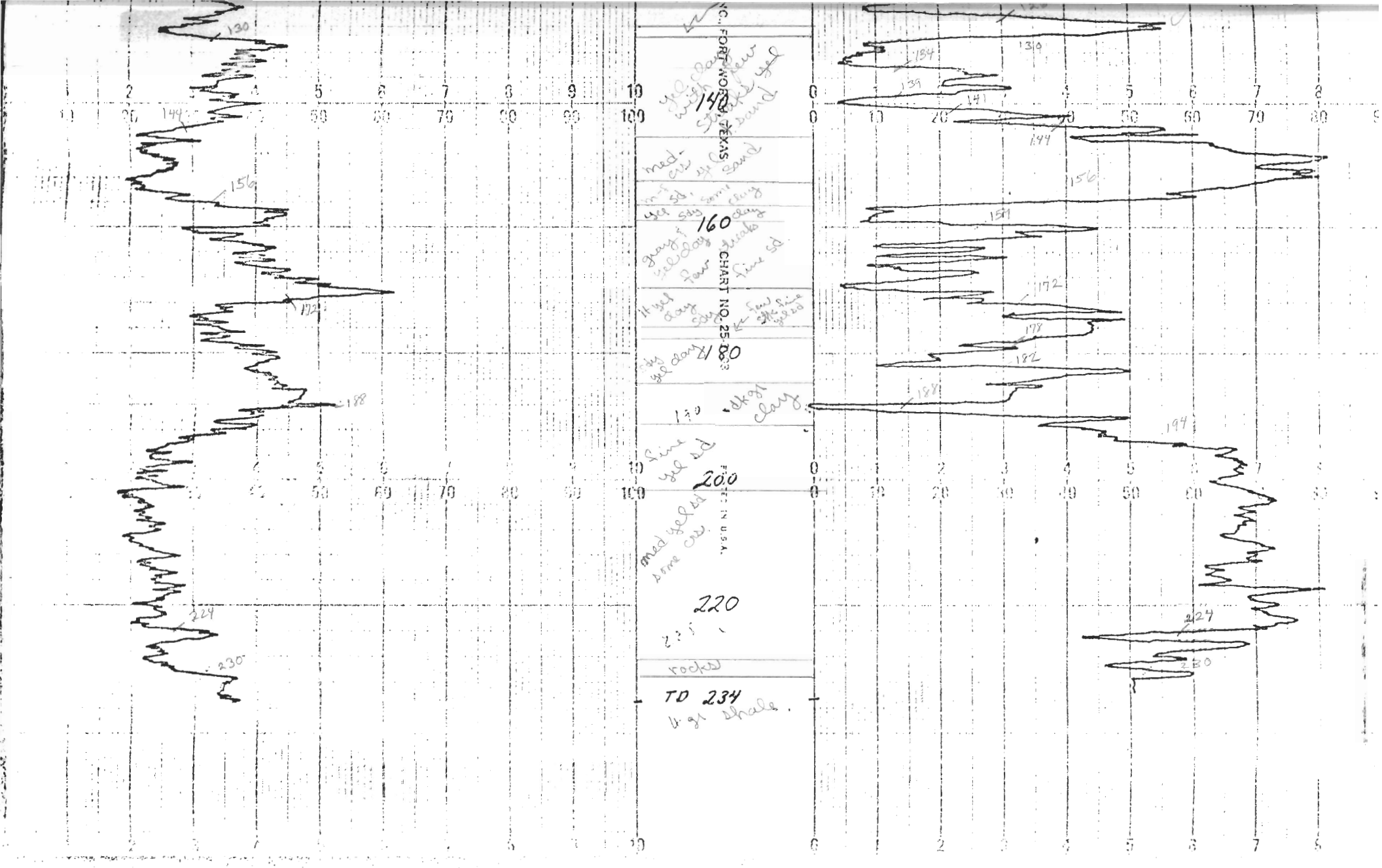
	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	February 25, 1971		Nature		
First Reading			Density		
Last Reading			Viscosity	@ °F	@ °F
Footage Logged	234		Resistivity	@ °F	@ °F
Bottom (Driller)	234		Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	Ron Helgerson SDGS	
			Witnessed by		

REMARKS

* Reg. U.S. Pat. Off.

FO-139




FORT WORTH, TEXAS
CHART NO. 25
MADE IN U.S.A.
140
160
180
200
220
TD 234
130
144
156
172
188
224
230
139
141
144
156
159
172
178
182
184
194
224
230

Received from South Dakota Survey 3-4-71 #22795

Widco* WELL LOG

COMPANY Marty Soole - Bronson, Iowa

AREA

WELL Bronson City Well

COUNTY Woodbury STATE Iowa

COORDINATES:
N
S
ELEVATION:
D.F.
K.B.
G.L.

COMPANY Marty Soole
WELL Bronson City Well
LOCATION Bronson, Iowa

	Run No. 1	Run No. 2
Date	February 25, 1971	
First Reading		
Last Reading		
Footage Logged	234	
Bottom (Driller)	234	
Casing (From Log)		
Casing (Driller)		
Casing Size		
Bit Size:		
Bit Size:		

MUD	Run No. 1	Run No. 2
Nature		
Density		
Viscosity	@ °F	@ °F
Resistivity	@ °F	@ °F
Res. @ BHT	@ °F	@ °F
pH		
Circ. Temp.		
B.H. Temp.		
Logged by	Ron Helgerson SDGS	
Witnessed by		

REMARKS

* Reg. U.S. Pat. Off.

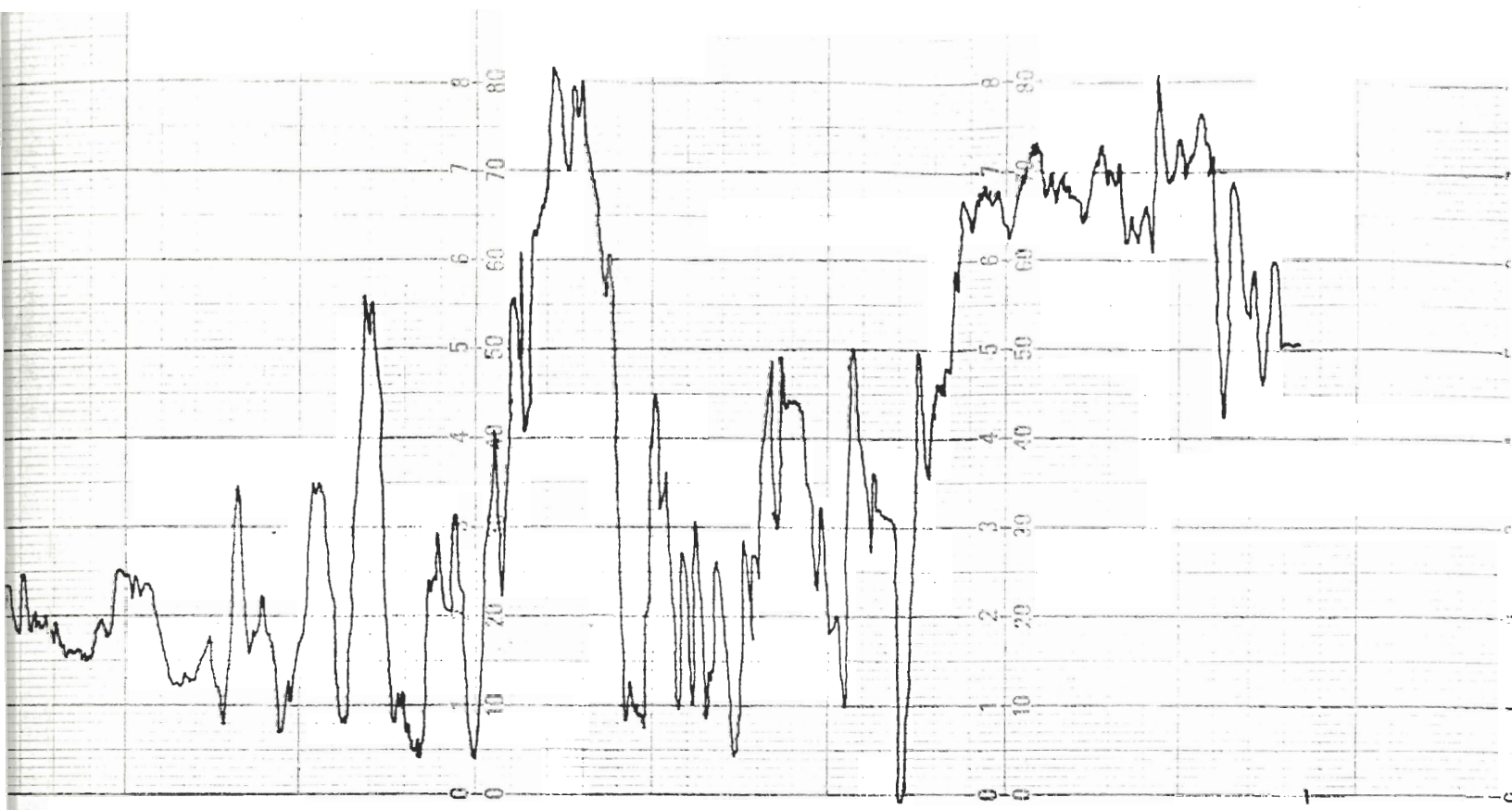
FO-139

Gamma Ray Rate = 100
TC = 2

Resistivity 20 ohms

0
20
40
60
80
100
120
140

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