

Name of Applicant City of Wall c/o David L. Hahn, MayorPost Office Address Box 314, Wall, SD 57790Amount of Water Claimed 0.44 cfs Total Acres NASource of Water Supply groundwater - 1 wellWater to be used for municipal purposes County PenningtonAbout 1/2 miles N of Wall

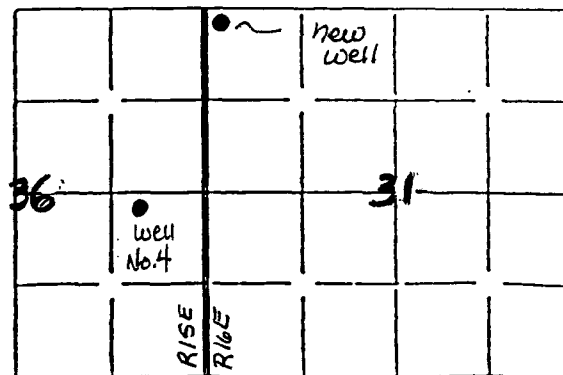
PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

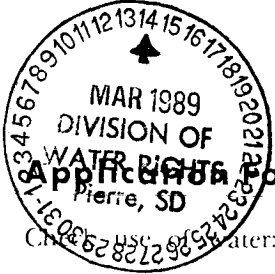
F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received Mar 14, 1989 Fee \$250⁰⁰ Remarks _____Corrected Application Received March 30, 1989 Period of Annual Use Jan 1 - Dec 31WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point NW 1/4 NW 1/4 Sec 31, T1N, R16ELand to be Irrigated NAWell Log: Driller Goodwell, Inc. Licensed YES _____ NO _____Depth of Well 3200' REMARKS New well identical to Well No. 4 -Water Right No. 1361-2 / Logs submitted 'OK' per Goodman, 3/30/89Type of Hap plat PREPARED BY Gregory Wierenga Reviewed and the Numberassigned on March 30, 1989 By Dusan A. Brouwer

Mail to: Water Rights Div.
528 E. Capitol
Pierre, SD 57501
(605) 773-3352
P.L. 12/128



No. 2015-2 Hydrologic Unit 10140102
Map No. same Basin Bad River
Newspaper Pennington County Courant, Wall SD
Box 435 (weel)

Application for Permit To Appropriate Water Within The State Of South Dakota

Character of water: Industrial ☐ Commercial ☐ Municipal ☒ Other Common Distribution System ☐
Rural Water System ☐ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
Domestic ☐ (above 18gpm) Other ☐

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐
☐ Amend Permit No. _____ with old priority date retained
Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____
☒ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____
☒ Construction to use water reserved by Future Use Permit No. 1868-2

1. Name of Applicant City of Wall Phone No. 279-2663

2. Post Office Address Box 314 Wall, SD State 57790
(Street, RR or Box) (City) Zip Code

3. Amount of water claimed (c.f.s.) 0.44 cfs. (200 gpm)

4. Source of water supply Lakota Aquifer

5. Location of point of diversion NW 1/4, NE 1/4, Sec. 31, T1N, R16E

County Pennington

6. Counties where water will be used Pennington

7. Annual period during which water is to be used January 1 - December 31

7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Project consists of drilling a new well essentially identical to existing Wall well #4. Estimated capacity is 180 gpm.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA
County of Pennington ss

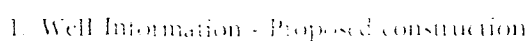
I, David L. Hahn, Mayor the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend and am able to complete the necessary construction.

Signed David L. Hahn

Subscribed and sworn to before me this 9th day of March 19 89

A. Kerner
Notary Public

(type on print in ink)



identical to well #4, existing

- a) Drill Hole Diameter: 11 1/2" Depth 3200'
- b) Casing Type Steel Diameter 8 5/8 / 5 1/2" Thickness 28 lb/ft / 14 lb/ft
- c) Screen Type Stainless Steel Diameter 5" Thickness
- d) Gravel Pack Thickness unknown Length of Gravel Pack 50'
- e) Depth to Top of Water Bearing Material 3200' (Est)
- f) Depth to Water (ground surface to water level) 600' (Est)
- g) Distance to nearest existing domestic well:

On applicants property 3000' (well #4) On property owned by others unknown, but is at least 2500'

2. Dugout Information Estimates N/A

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams	N/A
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If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

- b) Freeboard _____

- c) Chest Width _____

Crest Length _____

- d) Height _____

- e) Primary Outlet Capacity _____
If Pipe, diameter _____

- f) Secondary Spillway Capacity _____
Spillway width _____

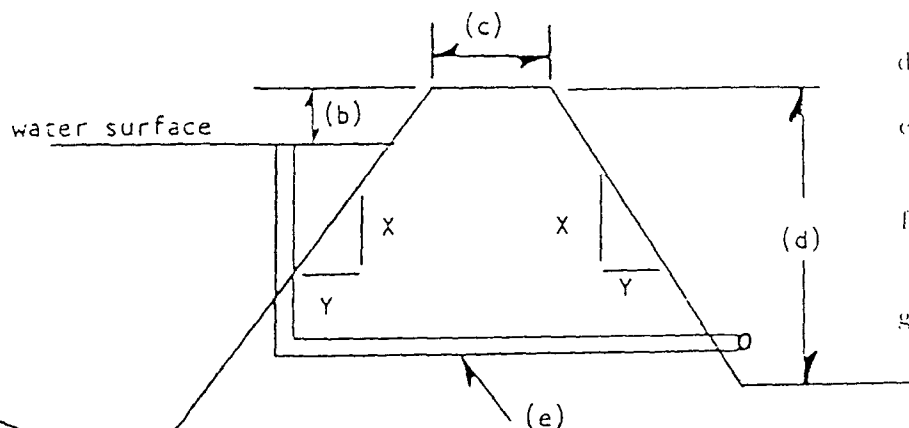
- g) X & Y Slope
Upstream _____

Downstream

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant

**SOUTH DAKOTA
WATER PERMIT No. 2075-2**

Date of first receipt of application March 14, 1989.

Date of return to applicant for required corrections, amendments or changes March 22, 1989.

Date of receipt of corrected application March 30, 1989.

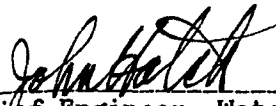
The Water Management Board approved Water Permit Application No. 2075-2 on May 10, 1989 for the City of Wall, c/o David L. Hahn, Mayor, Box 314, Wall, SD 57790-0314 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 2075-2 appropriates 0.44 cubic feet of water per second from one well (Inyan Kara Aquifer) 3200 feet deep. The well is to be located in the NW1/4 NW1/4 Section 31, T1N, R16E.
2. The water appropriated shall be used for the purpose of supplying the City of Wall and may not exceed the amount of water needed for beneficial use for municipal purposes.
3. The water is to be used during the following described annual period: January 1 to December 31.
4. The date from which applicant may claim right is March 14, 1989.
5. One-fifth of the construction is to be completed on or before November 10, 1991.
6. All construction is to be completed on or before May 10, 1994.
7. Water is to be put to beneficial use on or before May 10, 1998.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

- 1) The well authorized by Permit No. 2075-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
- 2) The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

WATER MANAGEMENT BOARD

By: 
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

AUG 1 1989

(date)

**Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

March 22, 1989

David L. Hand, Mayor
City of Wall
Box 314
Wall, SD 57790

Dear Mr. Hahn:

This letter is in response to the water permit application received from you March 14, 1989.

The application is incomplete for the following reason(s):

- (1) The application fee needs to be submitted. The correct fee for 200 gpm is \$250 (see enclosed instruction sheet).
- (2) A **signed** well log or test hole log needs to be submitted (see enclosed instruction sheet). If you do not have a test hole log for the new well, please submit a well log for well #4.

The Water Management Board cannot consider a water permit application until it is complete. Please submit the required fee and a signed test hole log or well log to begin processing of your water permit application.

Feel free to contact us if you have any questions.

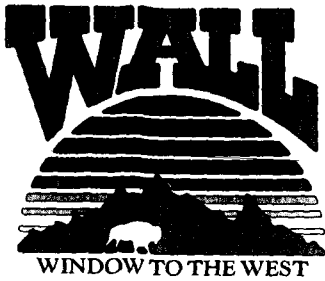
Sincerely,



Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605)773-3352

enclosure





City of Wall
501 MAIN STREET P.O. BOX 314
WALL, SOUTH DAKOTA 57790-0314
Phone 605/279-2663



March 29, 1989

Ms. Susan A. Bowar
Natural Resources Engineer
Water Rights Division
523 East Capitol
Pierre, South Dakota 57501-3181

Dear Ms. Bowar:

As per your request, you will find enclosed a copy of the well log for well #4. Also enclosed is the check in the amount of \$250.00 for the application fee for the water permit.

If you have any further questions, please contact me. Thank you.

Sincerely yours,

Paul Goldhammer
Public Works Superintendent

PG/mcw
Enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, March 30, 1989

RECEIVED OF City of Wall, Walls SD 57790,

the following amount in fees for services rendered as provided for by law:

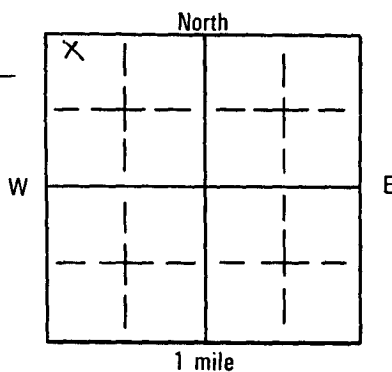
Fee for Application for Permit No. <u>2075-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	250 00

By

Chief Engineer

John Hatch/mra

SOUTH DAKOTA WATER WELL COMPLETION REPORT

2075-2
10-85Location NW 1/4 NW 1/4 Sec 31 Twp 1 N Rg 16 ECounty
PenningtonPlease mark well
location with
an "X"Well Completion Date 10-10-89

PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Mud Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
49.5 LB/FT	12 3/4 IN	0 FT	60 FT	17 1/2 IN
28.55 LB/FT	8 5/8 IN	0 FT	1515 FT	11 IN
15.5 LB/FT	5 1/2 IN	1474 FT	3034 FT	7 7/8 IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 30 34 FEETWhat is grouting material? CementIf cement, number of sacks? 620Describe grouting procedure both casing strings
were pressure groutedWhat was grout weight? 15 LB/GALSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☒ YES ☐ NOIf so, what material? RubberDescribe packer(s) and location? Gernoco hydraulic
set mechanical packer set
at 30 34Was well disinfected upon completion? ☒ YES ☐ NOExplain Circulated Chlorine solutionBacteriological analysis ☒ YES ☐ NOLaboratory sent to Travis Labs

Well Owner:

Name City of WallAddress 501 Main St. Wall, SD 57190

Well Log: _____ Depth _____

Formation	From	To
brown clay	0	60
Pierre shale	60	1630
Niobrara	1630	1850
Carlisle	1850	2178
Greenhorn	2178	2282
Belle Fourche	2282	2565
Mowry	2565	2662
Newcastle	2662	2886
Skull Creek	2886	3032
Fall River	3032	3094
Fuson	3094	3120

STATIC WATER LEVEL 500 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped☐ BailedDescribe: Air Developed☒ Other

Pumping Level Below Land Surface

1470 ft. After 8 Hrs. pumped 200 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

Both casing strings had
to be perforated + squeeze-
cemented: The 8 5/8" casing with
140 sacks + the 5 1/2" with 90 sacks

this well was completed with open
hole from 3034 to T.D.

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm Taylor Drilling Co.

Signature of License Representative:

Ralph Taylor

Signature of Well Owner:

Date _____

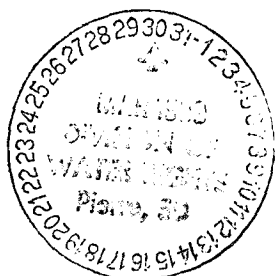


Sieve Analysis of Fall River-Lakota sand recovered from flow line.

Retained on screen		Opening (in.)	Percent	Cumulative
Tyler	U. S.	U. S.	retained	percent retained
35	40		tr	tr
42	45	0.0138	4.0	4.0
48	50	0.0116	3.5	7.5
65	70	0.0092	46.5	54.0
100	100	0.0058	42.0	96.0
pan	pan		4.0	100.0

Sieve analysis of commercially sized frac sand selected for gravel pack. Grab sample from truck tank.

Retained on screen		Opening (in)	Percent	Cumulative
U. S. Standard			retained	percent retained
10				
12		0.065	tr	tr
16		0.039	59.0	59.0
20		0.0328	35	94.0
25		0.027	5	99.0
30		0.023	0.3	
Pan			tr.	



JOHN PAUL GRIES

Consulting Geologist

238 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA



Description of sample cuttings, Wall No. 4 Well.

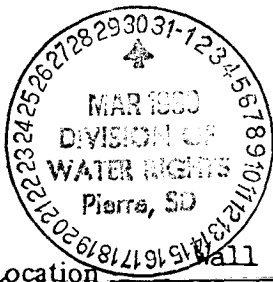
- 2700 - 2710 shale, medium gray, much caved Niobrara and Greenhorn;
trace hard gray sandstone
- 20 sandstone, fine, hard, gray, slightly porous, with traces
of organic fragments, pyrite, and mica
- 30 sandstone, same; slightly more porous, slightly coarser
- 40 sandstone, same, and some buff clay and limestone
- 50 sandstone, fine to medium, poorly sorted, cemented, tight,
dirty
- 60 sand and sandstone, medium, drills free, dirty
- 70 sandstone, same, 1/2; clay, pink to black, 1/2
- 80 sandstone and sand, medium, brown, dirty
- 90 sandstone, fine to medium, white, slightly porous
- 2800 sandstone, same, 1/3; shale, gray, 2/3
- 10 clay, pink, with siderite pellets abundant
- 20 shale and siltstone, gray
- 30 shale, free medium sand, few siderite pellets
- 40 sandstone, fine, white, slightly porous
- 50 sandstone as above and clay with siderite pellets
- 60 sandstone, fine to medium, incoherent to loosely cemented,
porous
- 70 sandstone, more cemented, pyritic
- 80 probably shale with thin sandstone streaks
- 90 same
- 2900 same
- 10 shale, light to medium gray
- 20 shale, same
- 30 shale, medium to dark gray
- 40 shale, same
- 50 shale, medium to dark gray, splintery
- 3000 shale, same
- 20 shale, much caved material
- 30 shale, medium gray, some fine colorless sand, may be caved
- 40 shale, same
- 50 shale, same; 2 pieces pyritic sandstone, caprock?
- 60 shale, medium gray
- 70 shale, 90%; sand, fine, 10%
- 80 shale and same, same ratio
- 90 shale, medium gray
- 3100 shale, 90%, sandstone 10%
- 10 shale, medium gray
- 20 sandstone, fine, subangular,
- 30 sandstone, same, good porosity
- 40 sandstone, fine to medium, subangular, porous, drills into
aggregates
- 50 sandstone, same, may be some streaks of siltstone

3150 - 3160 sandstone, fine to medium, well cemented
 70 poor sample
 80 sample poor, probably siltstone and sandstone streaks
 90 clay with siderite pellets
 3200 clay with siderite pellets

Formational log, as interpreted from samples and electric log:

Niobrara chalk	1715 feet
Greenhorn limestone	2265
X bentonite	2445-2448
Dakota formation	2605
best sands	2712-2743
	2804-2898
Skull Creek shale	2898
Fall River-Lakota	3036
best sands	3055-3120
Total depth (driller)	3209
Total Depth (logger)	3195
Elevations: Kelly bushing	2805.5
Ground	2801

Note: elevations to successive strata ran 20 to 30 feet shallower than in City Well No. 2.



SOUTH DAKOTA GEOLOGICAL SURVEY

Location Wall SE 1/4 Section: 36 T. 1N R. 15E N. 8 W.

Well: #4 Test Hole: _____ Land Owner: City of Wall

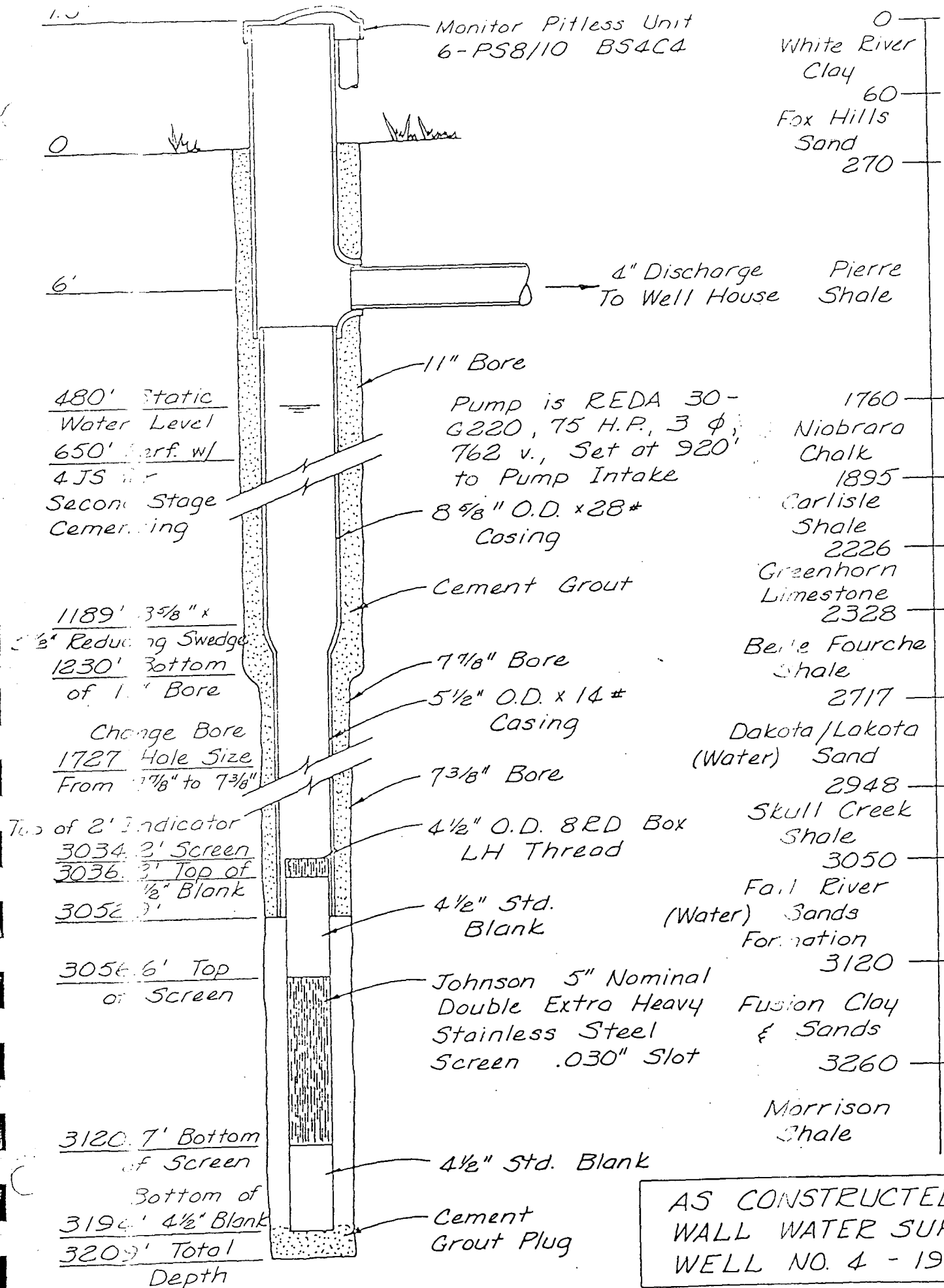
County: Pennington Date: 7-23-76 Elevation: 2801 (A, I, T)

E-Log: Induction Samples: 2700-3200 Drilling Company: Materi

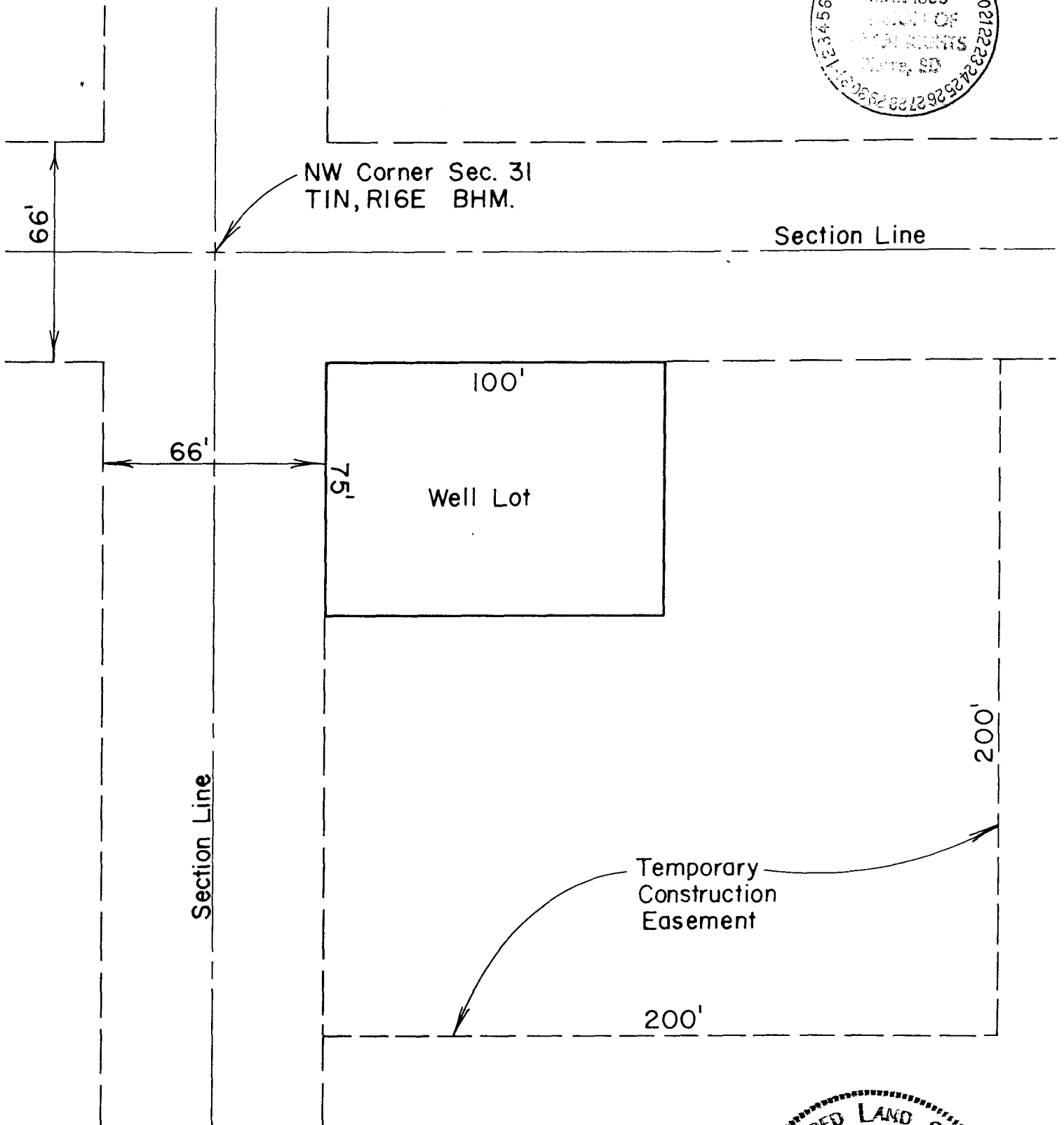
Source of Data: _____ Logged by Jim Ellithorpe

Geologic Unit	Thickness	Lithologic Description	From - to Feet
Dakota Sandstone	10	Shale, drab gray	2700-10
	10	Shale, aa, 90%; Sandstone, light gray, fine grained, silica cement, 10%	2710-20
	10	Shale, aa, 85%; Limestone, black, crystalline, fine-grained, 10%; Sandstone, white to light gray, fine-grained, 5%; few pieces of chalk.	2720-30
	10	Shale as before 60%; Limestone as before 30%; sandstone 10%	2730-40
	10	Shale, dark gray to black, 90%; Limestone, black, crystalline (possibly calcareous silt) 10%	2740-50
	10	Shale, dark gray 60%; Sandstone, coarse grained, buff, calcareous cement 40%	2750-2760
	10	Shale, dark gray & calcareous silt 60%; Sandstone, white, silica cement, fine grained 20%; Sandstone, calcareous, buff, coarse grained 20%	2760-2770
	10	Shale, 50%, dark gray to black, some grains pyritic; Sandstone, 50%, coarse grained, buff to white with calcareous cement; white, no CO ₂ , fine grained	2770-2780
	10	Shale, 45%, dark gray to black, Sandstone, white to light gray, fine grained to coarse, siliceous 45%; Limestone, black, crystalline 10%; traces of pyrite	2780-2790

Geologic Unit	Thickness	Lithologic Description	From-to Feet
	10	Shale, dark gray to black, 90%; Sandstone, coarse grained	2790-28
		white to buff, 10%; traces of pyrite, gypsum, bentonite	
	10	As above without gypsum or bentonite	2800-28
	10	As above with traces of gypsum	2810-28
	10	Shale, as above 90%; Sand, white, medium coarse grained, 10%	2820-28
		trace of gypsum and bentonite	
	10	Shale, as above, 60%; Sandstone, white, non-calcareous,	2830-28
		medium coarse grained, 40%	
	10	Shale, dark gray to black, mostly in thin, elongated pieces,	2840-28
		95%, 5% Sandstone as above.	
	10	Shale as above 70%; Sandstone as above 25%; chalk, gray	2850-28
		with white specks 50%	
	10	Shale, as above 70%; Sandstone as above 30%; traces of	2860-28
		bentonite	
	30	Shale as above, 90%; Sandstone as above 10%	2870-29
Skull Cr. Shale ELog	10	Shale, light gray and black in large, splintery pieces 100%	2900-29
	150	Shale as above although pieces not as large, 100%	2910-30
	10	Shale as above 85%; Sandstone, white, medium coarse grained,	3070-30
		15%	
	30	Shale as above, mostly gray 95%; Sandstone as above 5%	3080-31
	10	Shale as above, 80%; Sandstone as above 20%	3110-31
	10	Shale as above, 85%; Sandstone as above 15%	3120-31
	20	Same	3130-31
	10	Shale as above, traces of pyrite	3150-31
	20	Shale as above 70%; sandstone as above 25%; traces of pyrite	3160-31
	20	Shale as above 95%; Sandstone as above 5%	3180-32

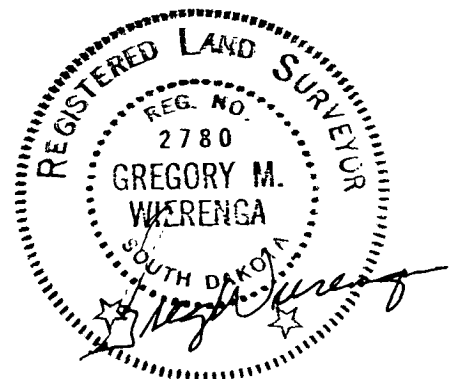


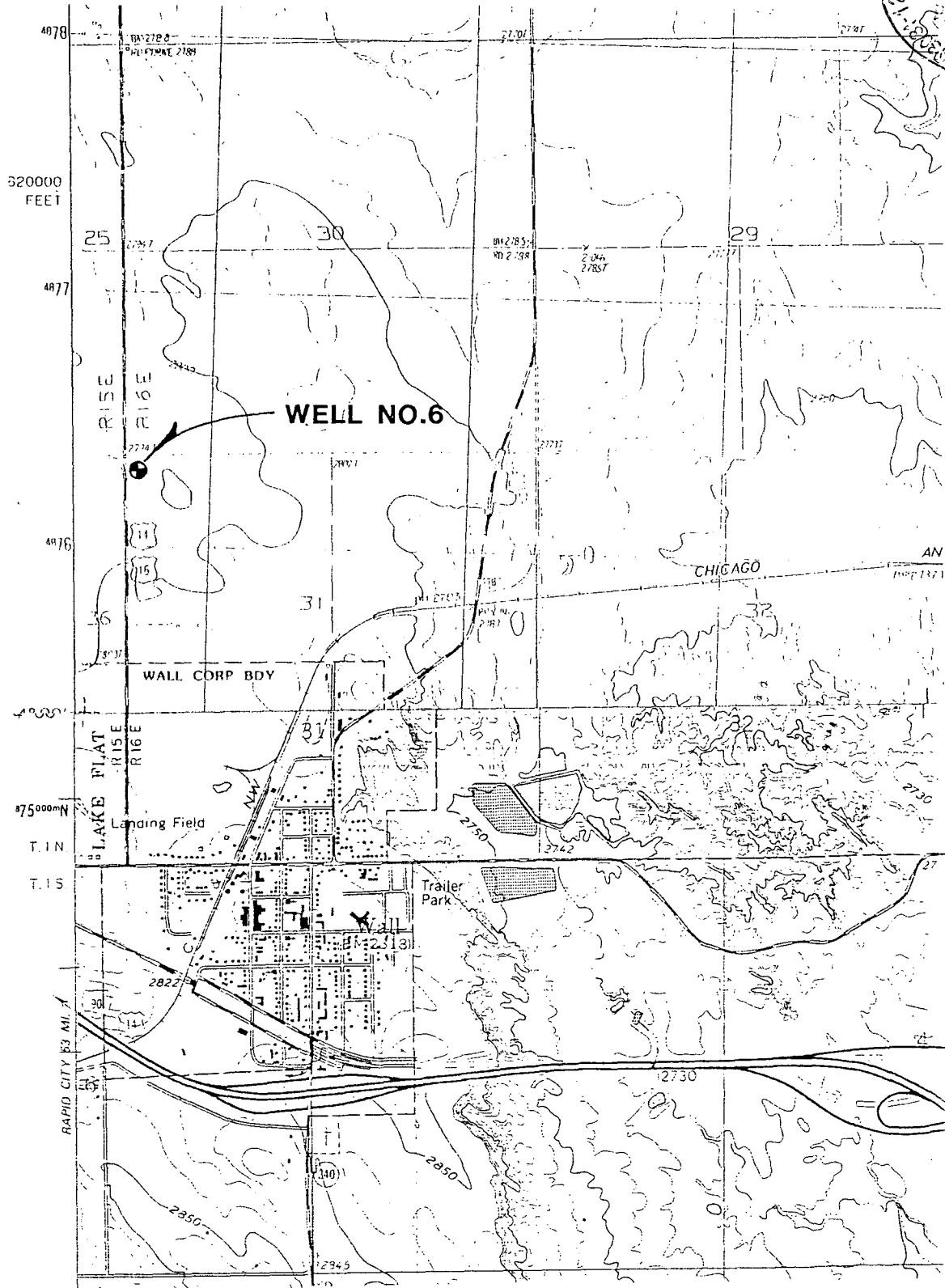
AS CONSTRUCTED
WALL WATER SUPPLY
WELL NO. 4 - 1976



Location Map
Wall SD Well No. 6

April 11, 2000

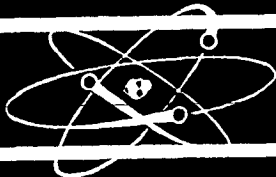




WALL, SD

GOODWELL, INC.

UPTON, WYOMING

**INDUCTION ELECTRICAL**

COMPANY _____ CITY OF WALL _____

WELL # 4

FIELD _____

COUNTY PENNINGTON STATE SO. DAK.

Location

SE 1/4

Other Services:

GDC

Sec. 36 Twp. 1N Rge. 15E

Permanent Datum: G.L. _____, Elev. 2801
Log Measured From G.L. _____ 0 Ft. Above Perm. Datum
Drilling Measured From K.B. _____

Elev.: K.B. 2805.5
D.F. _____
G.L. 2801

Date	6-10-76			
Run No.	One			
Depth—Driller	3209			
Depth—Logger	3196			
Btm. Log Inter.	3194			
Top Log Inter.	35			
Casing—Driller	13 3/8" 22	@	@	@
Casing—Logger				
Bit Size	10" to 1231', 7 7/8" to 1728', 7 3/8" to T.D.			
Type Fluid in Hole	Chem Gel			
Dens. Visc.	9.1 130			
pH Fluid Loss	ml	ml	ml	ml
Source of Sample	Pit			
R _m @ Meas. Temp.	.38 @ 90 °F	@ °F	@ °F	@ °F
R _{mr} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: R _{mr} R _{mc}				
R _m @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	3 hr. °F	°F	°F	°F
Max. Rec. Temp.				
Equip. Location	E 805 Upton			
Recorded By	Larson			
Witnessed By	Dr. Gries			

Fold Here

This Heading and Log Conform to API RP 51-A

REMARKS

Changes in Mud Type or Additional Samples

Scale Changes

Date Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth—Driller				
Type Fluid in Hole				
Dens. Visc.				
ph Fluid Loss				
Source of Sample				
R _m @ Meas. Temp.	@ °F	@ °F	Run No.	Tool Type
R _{mt} @ Meas. Temp.	@ °F	@ °F	Pad Type	Tool Position
R _{mc} @ Meas. Temp.	@ °F	@ °F	Other	
Source: R _{mt} R _{mc}				
R _m @ BHT	@ °F	@ °F		
R _{mt} @ BHT	@ °F	@ °F		
R _{mc} @ BHT	@ °F	@ °F		

Equipment Data

SPONTANEOUS POTENTIAL
millivolts

Depths

CONDUCTIVITY

$$\text{millimhos/m} = \frac{1000}{\text{ohms. m}^2/\text{m}}$$
6 Coil 40"
INDUCTION

1000

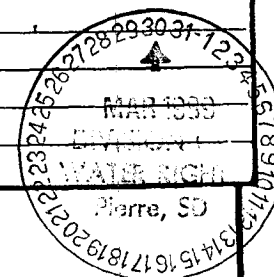
2000

0

1000

RESISTIVITY
ohms. m²/m

- 10 +



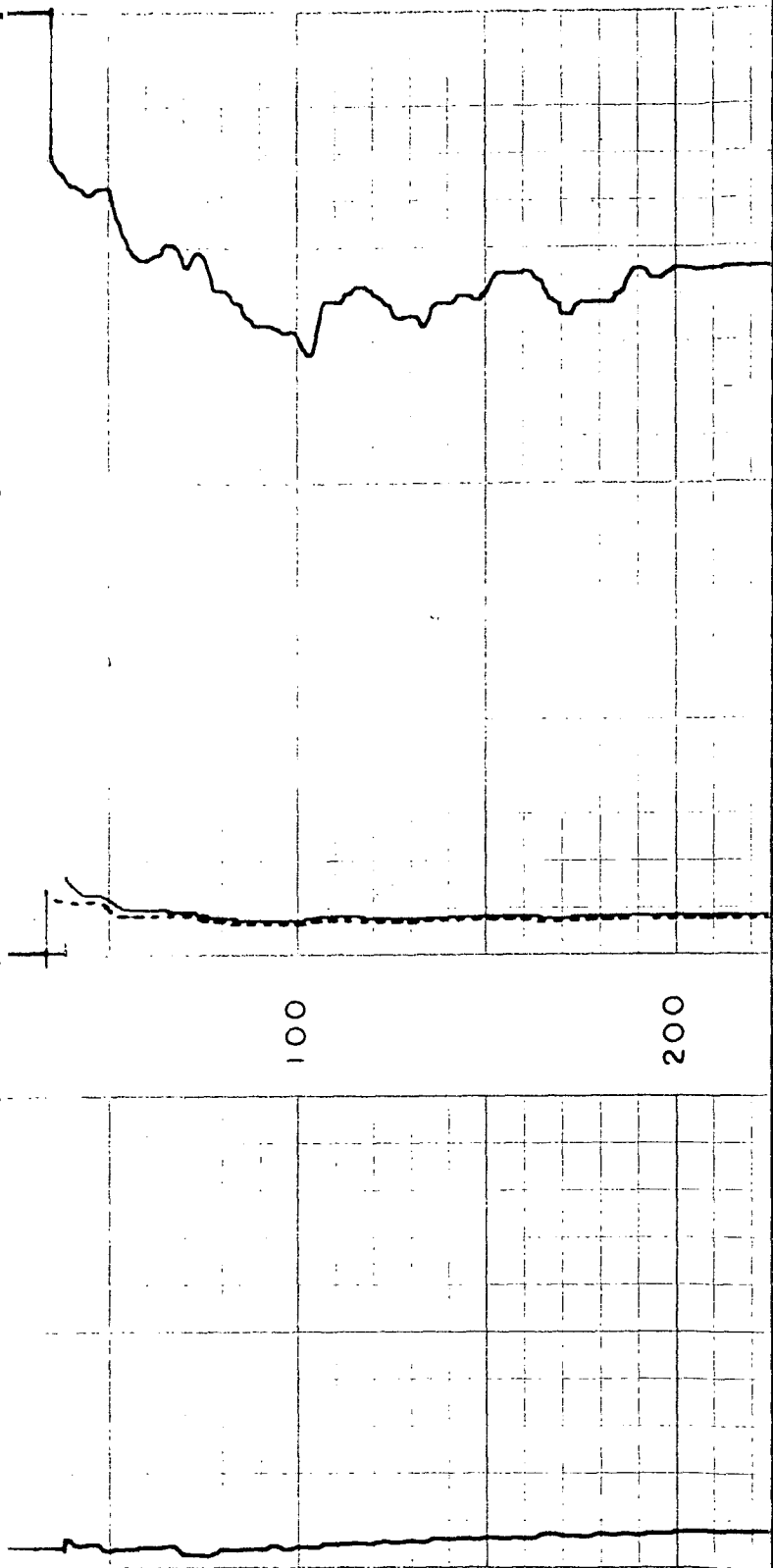
A - 16" - M - 18'8" - N - ∞ - B

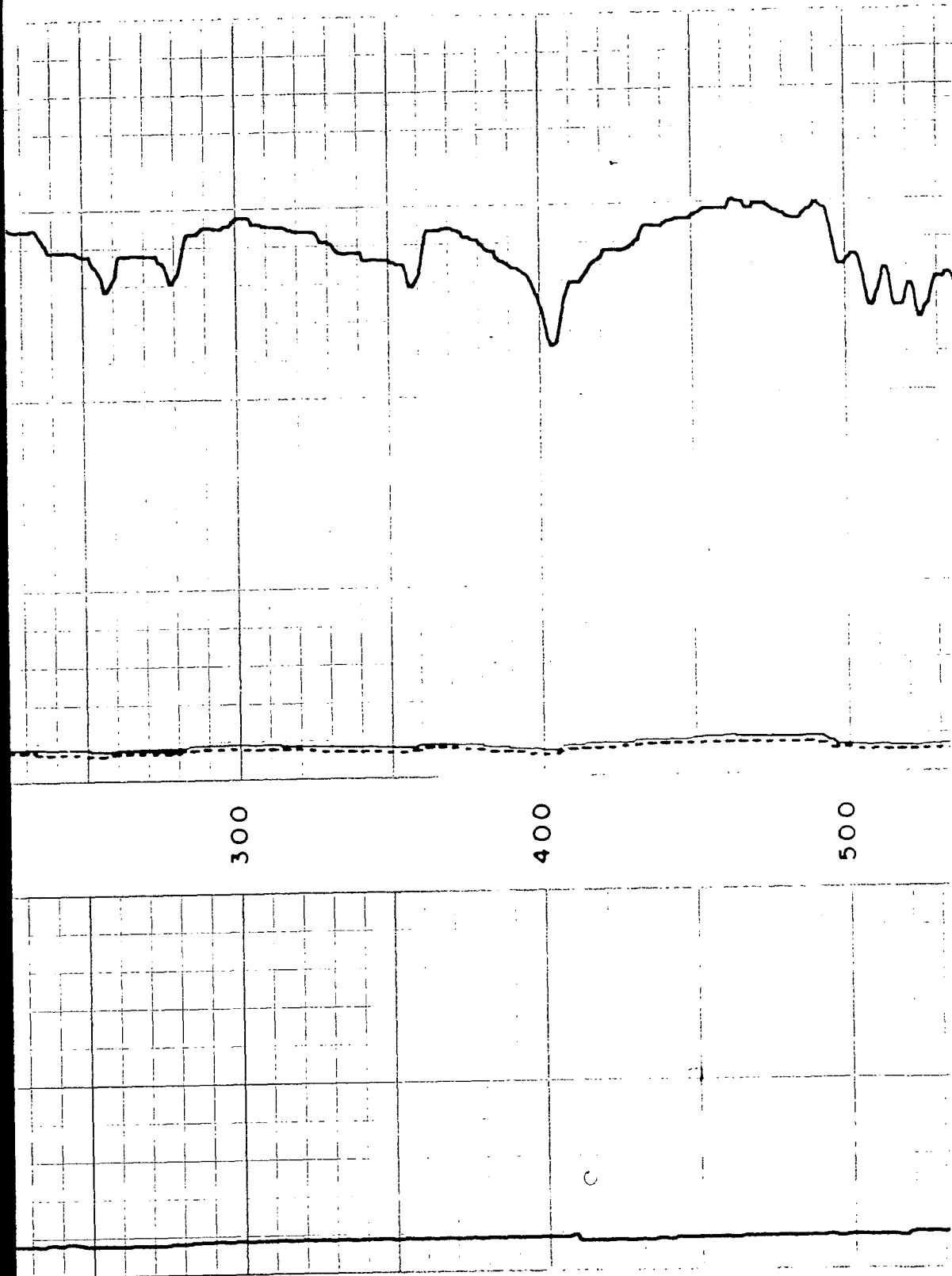
0 50

40"

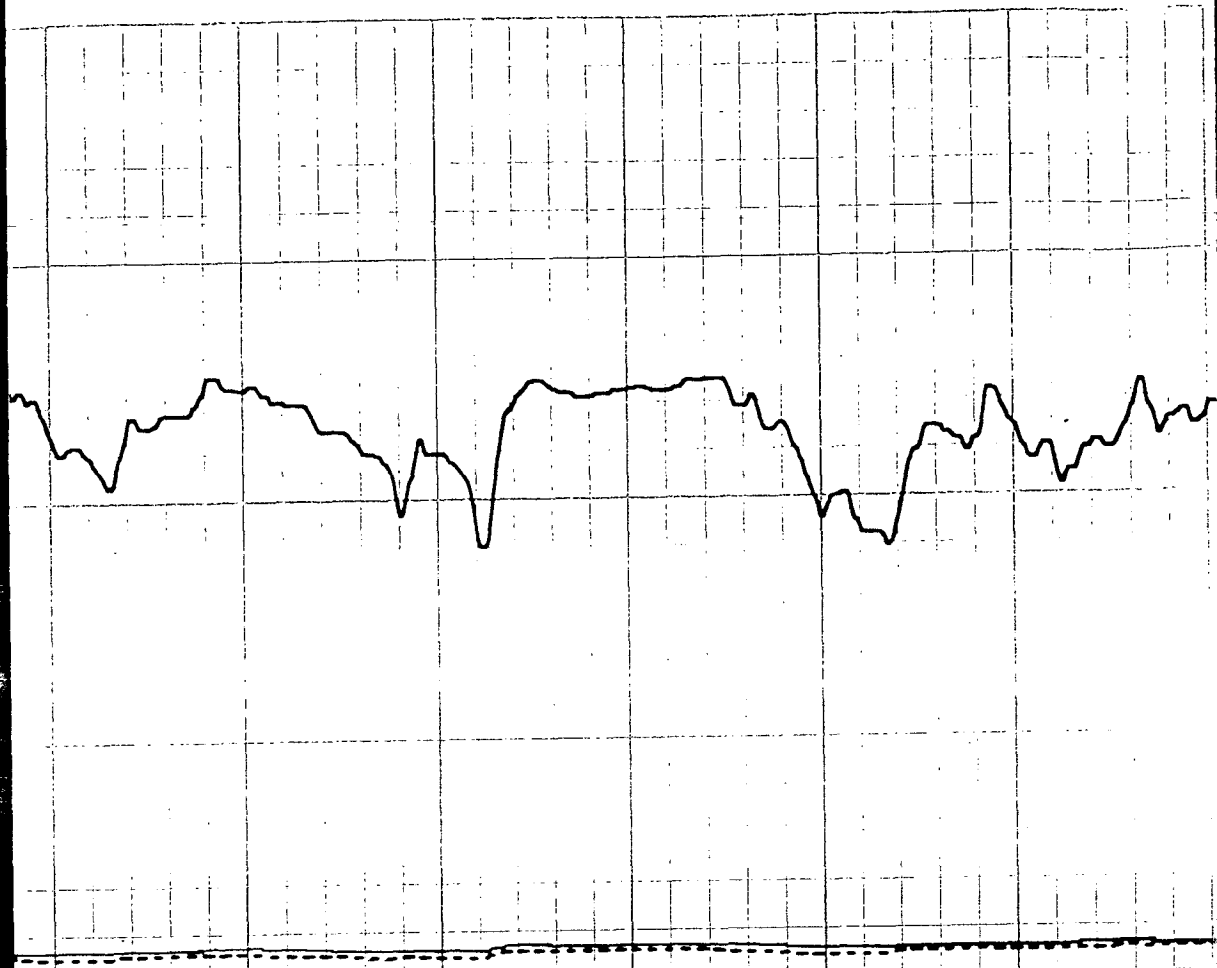
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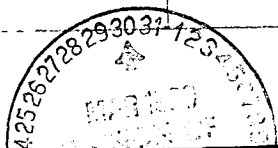
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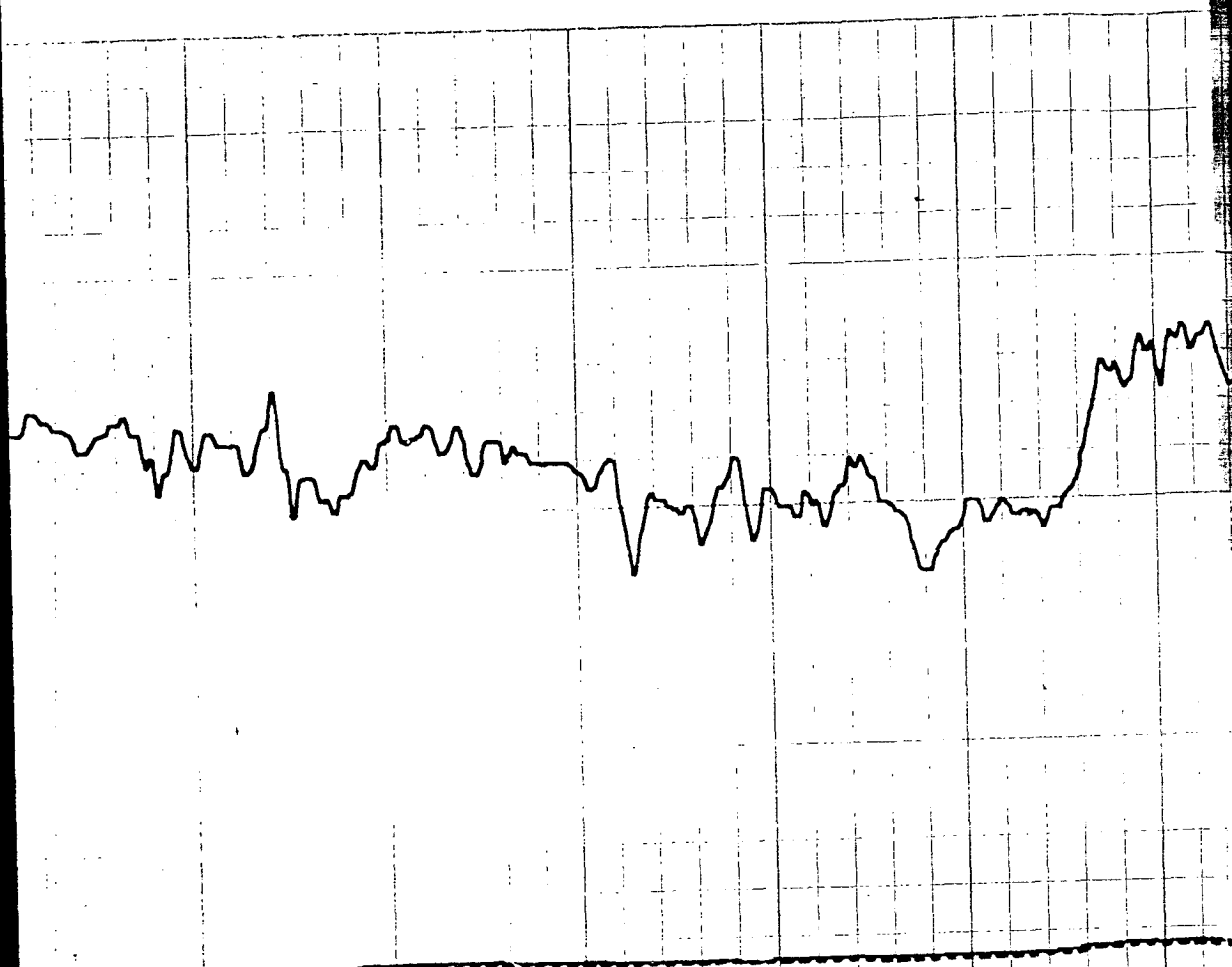


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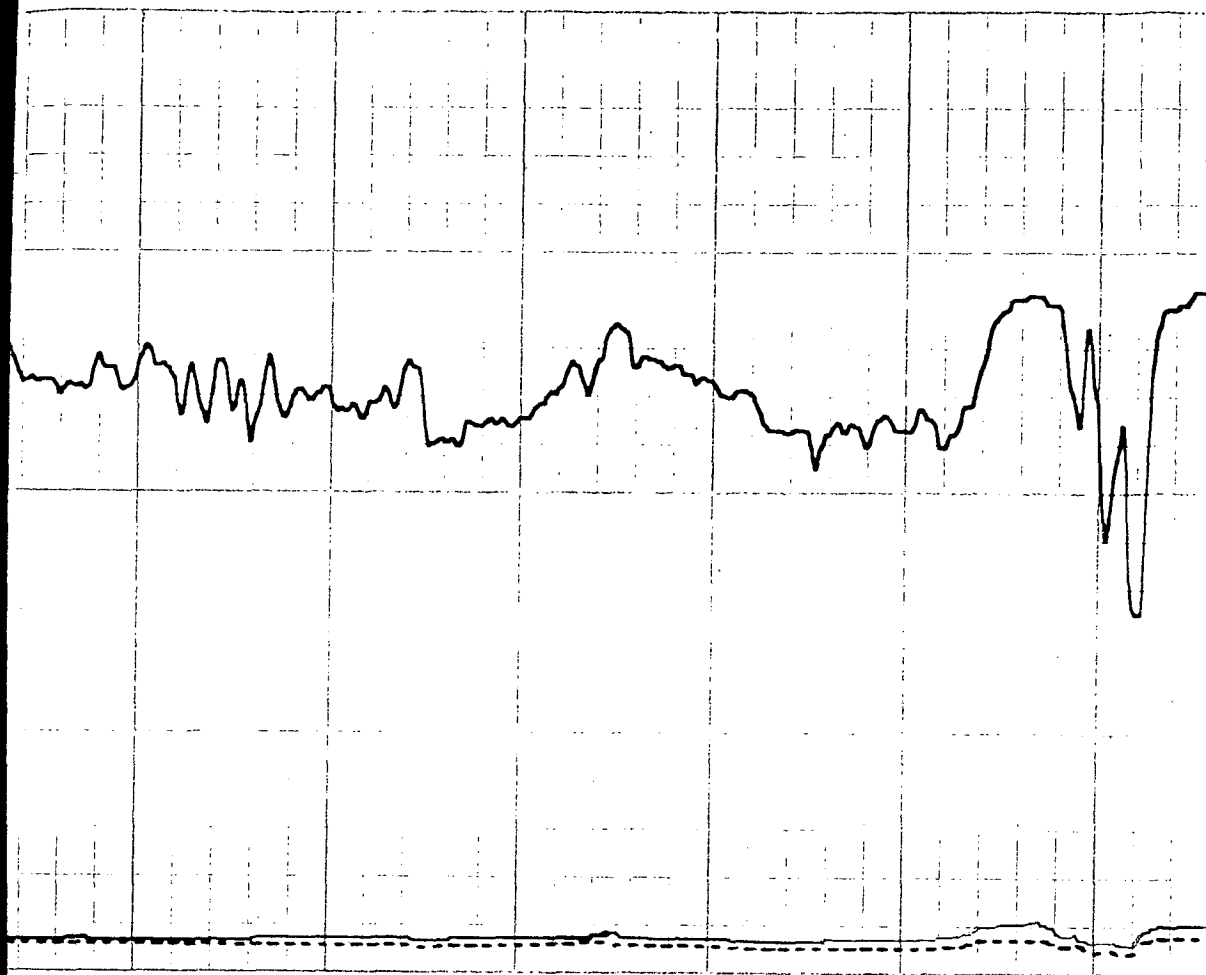


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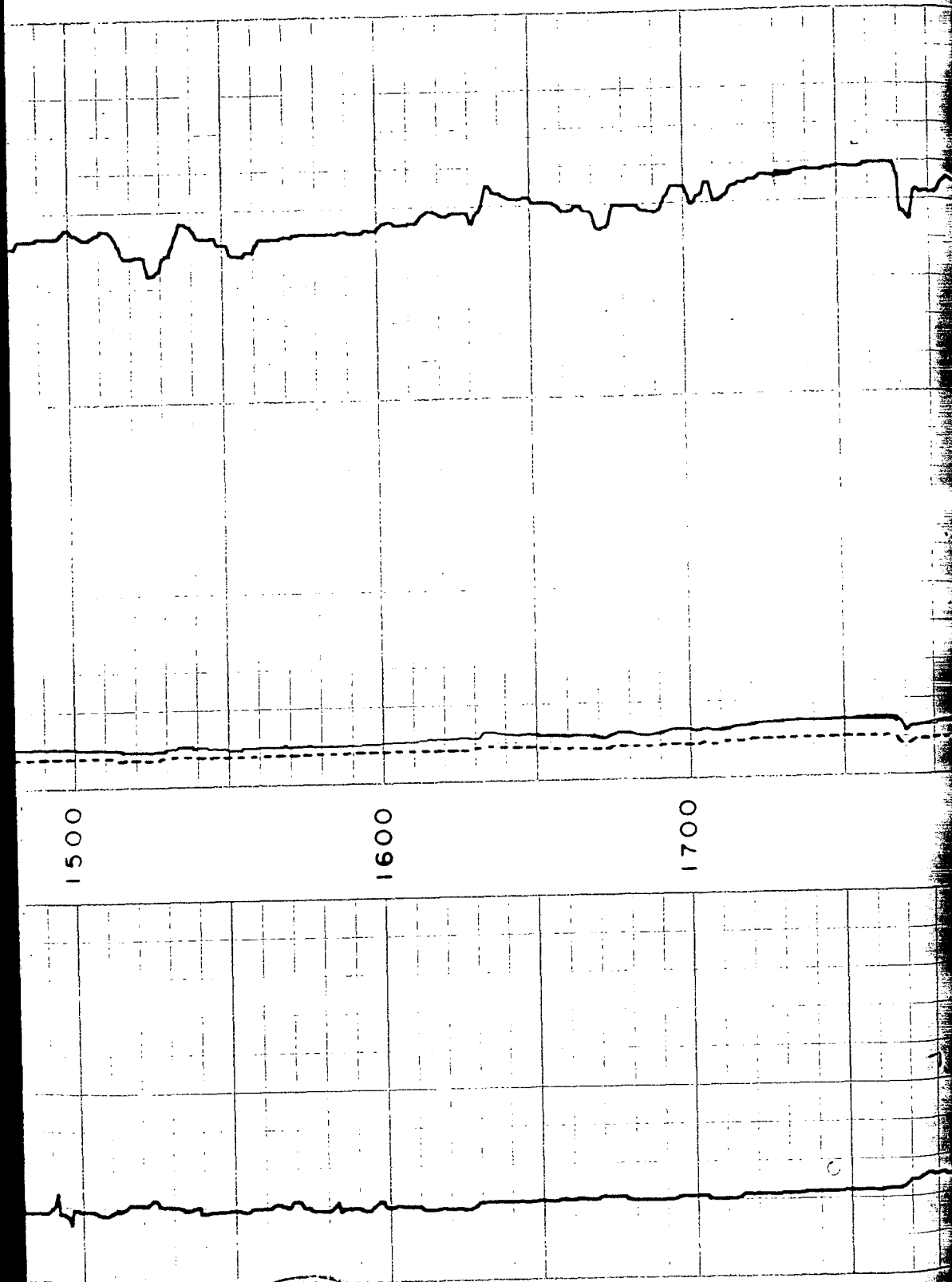


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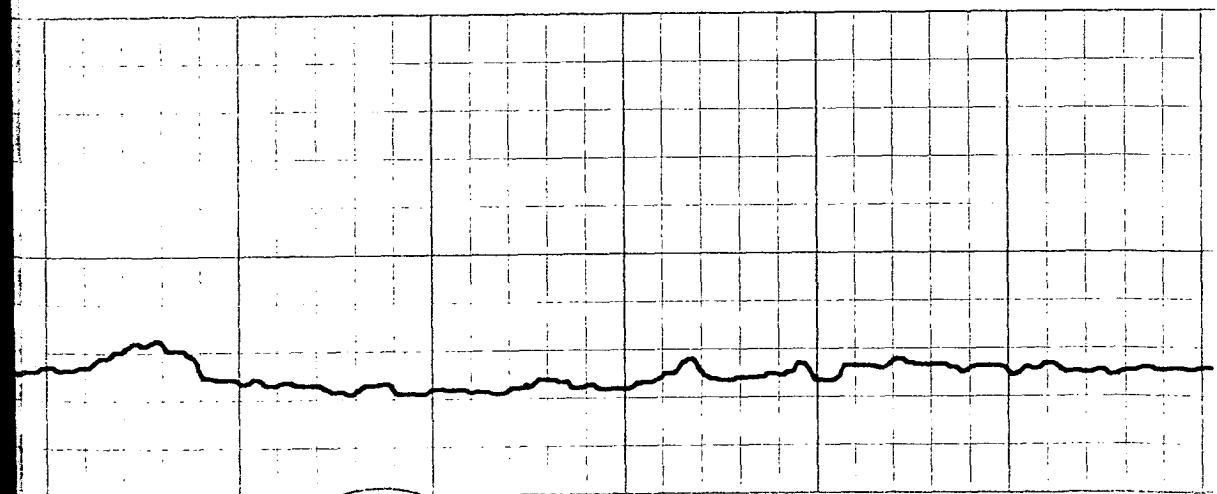
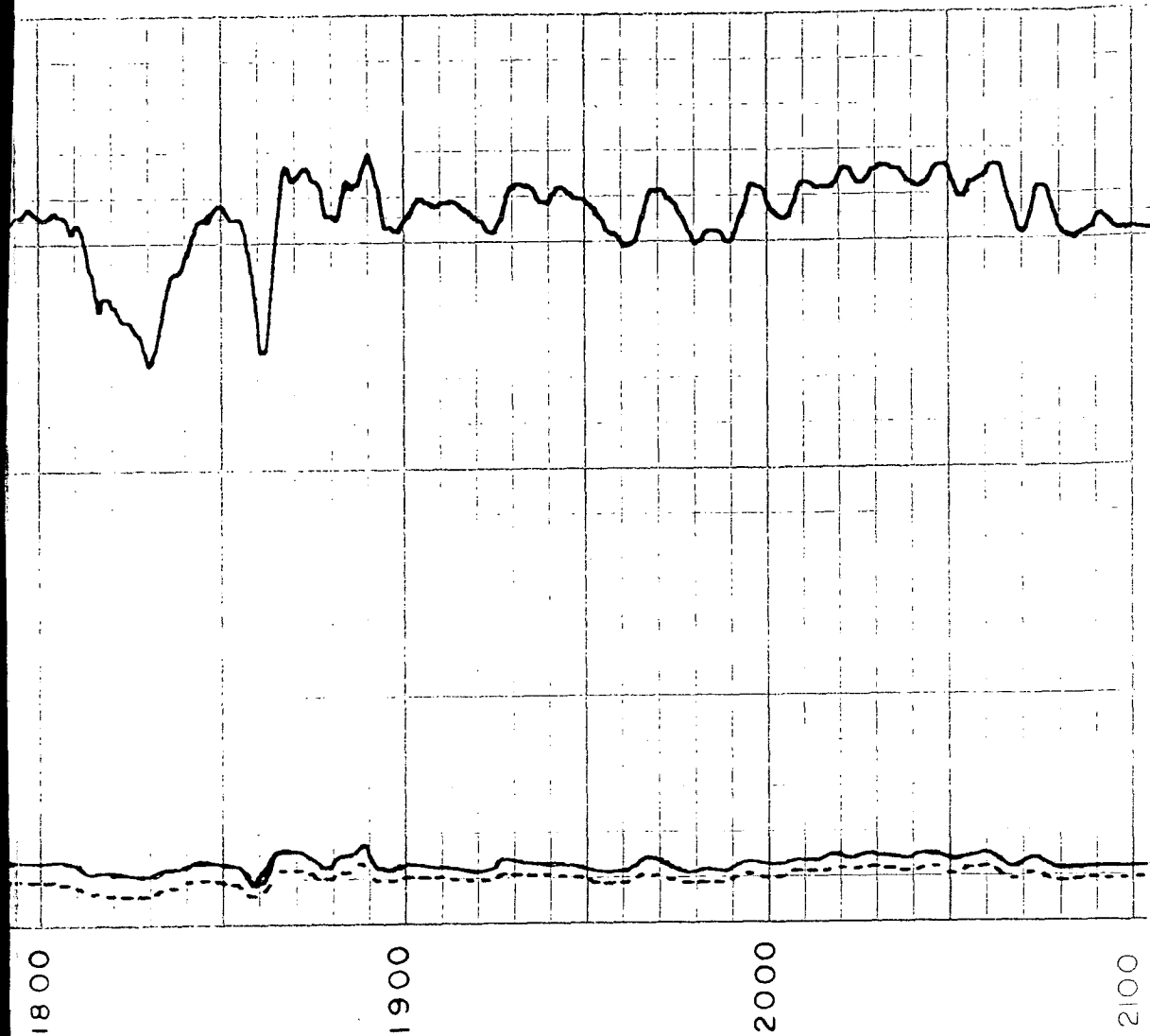
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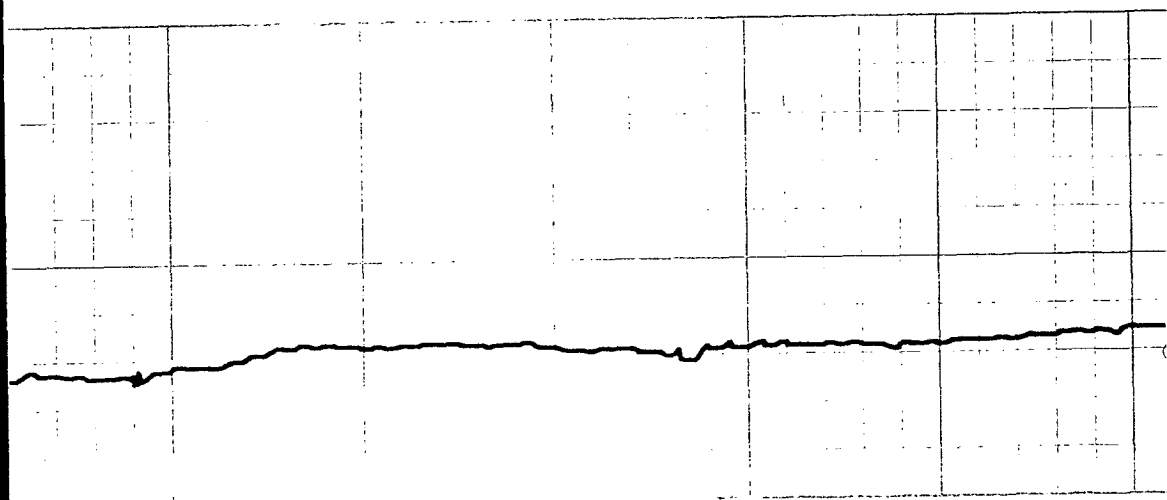
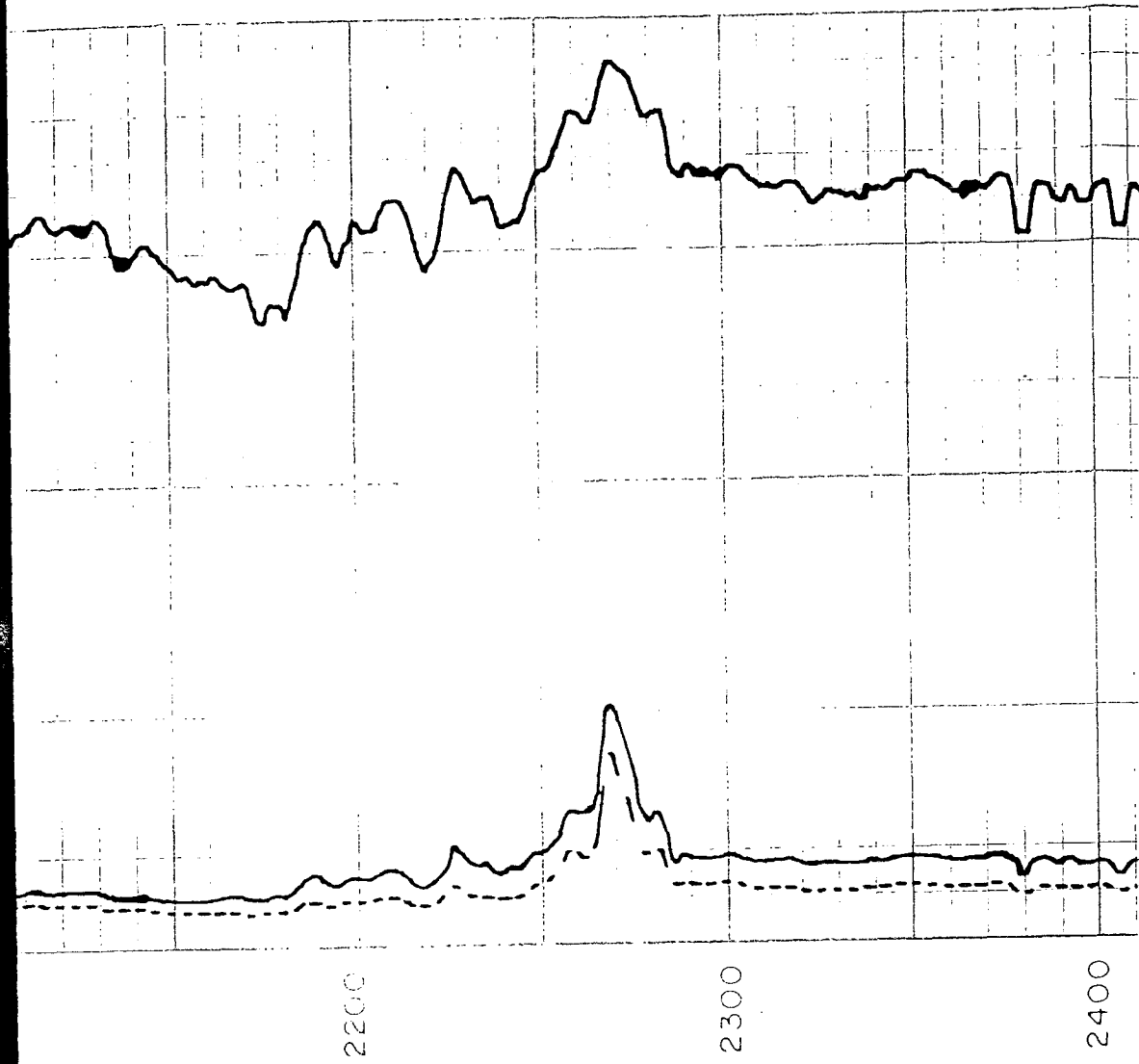
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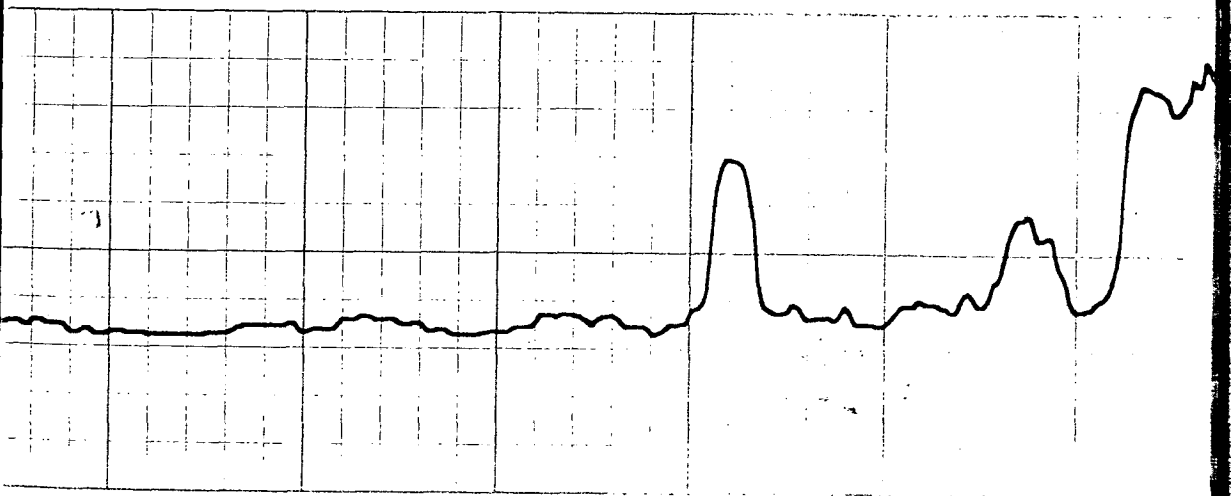
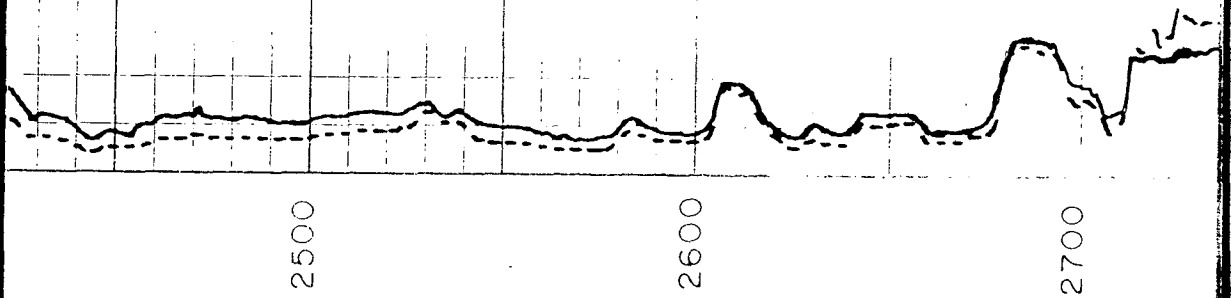
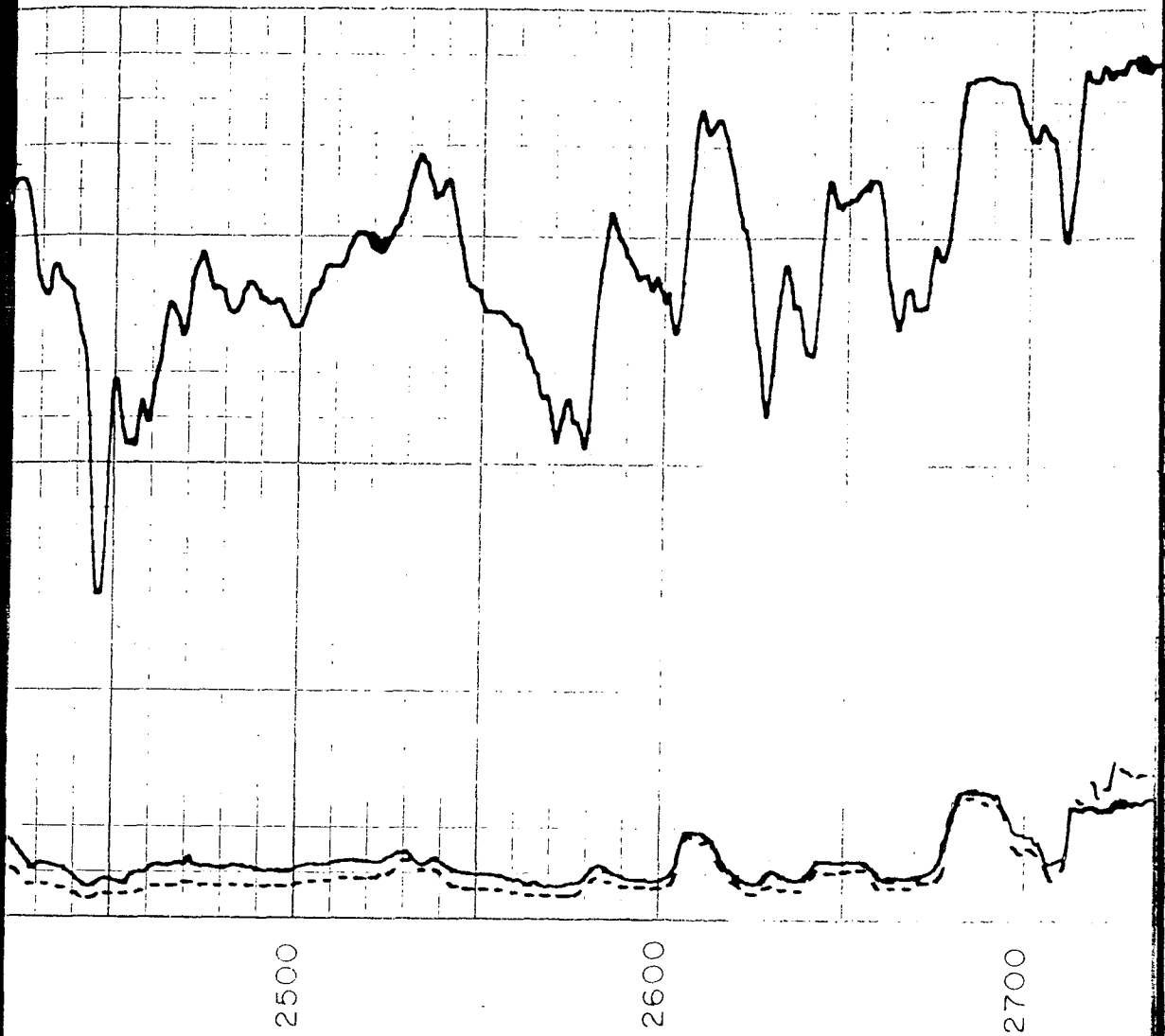
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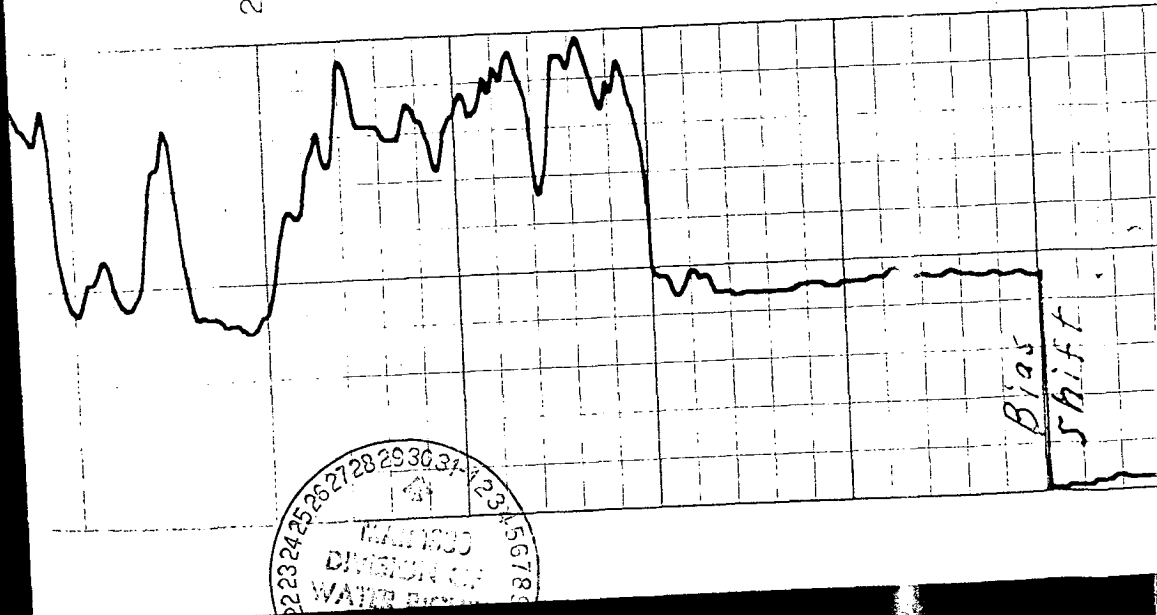
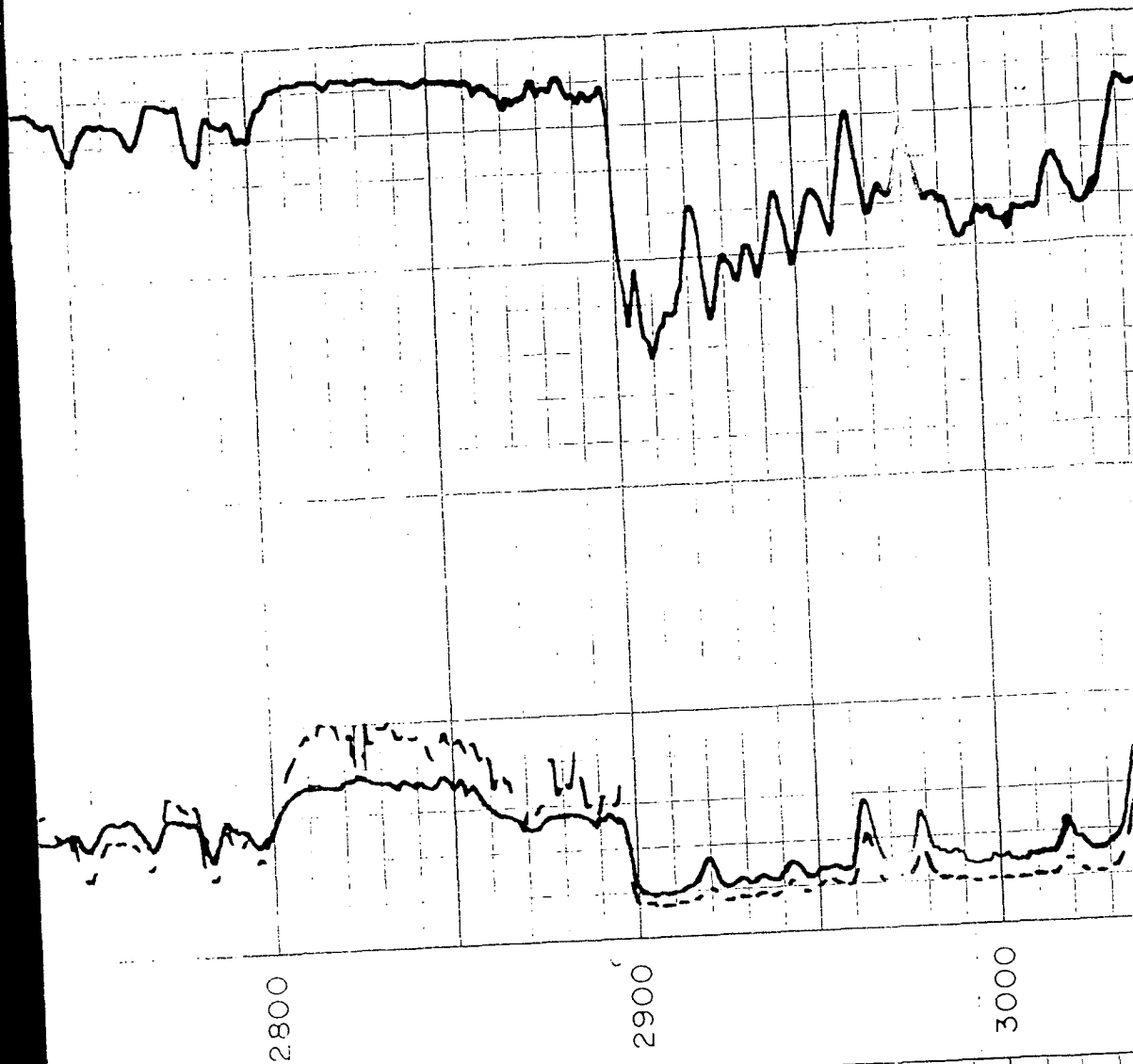
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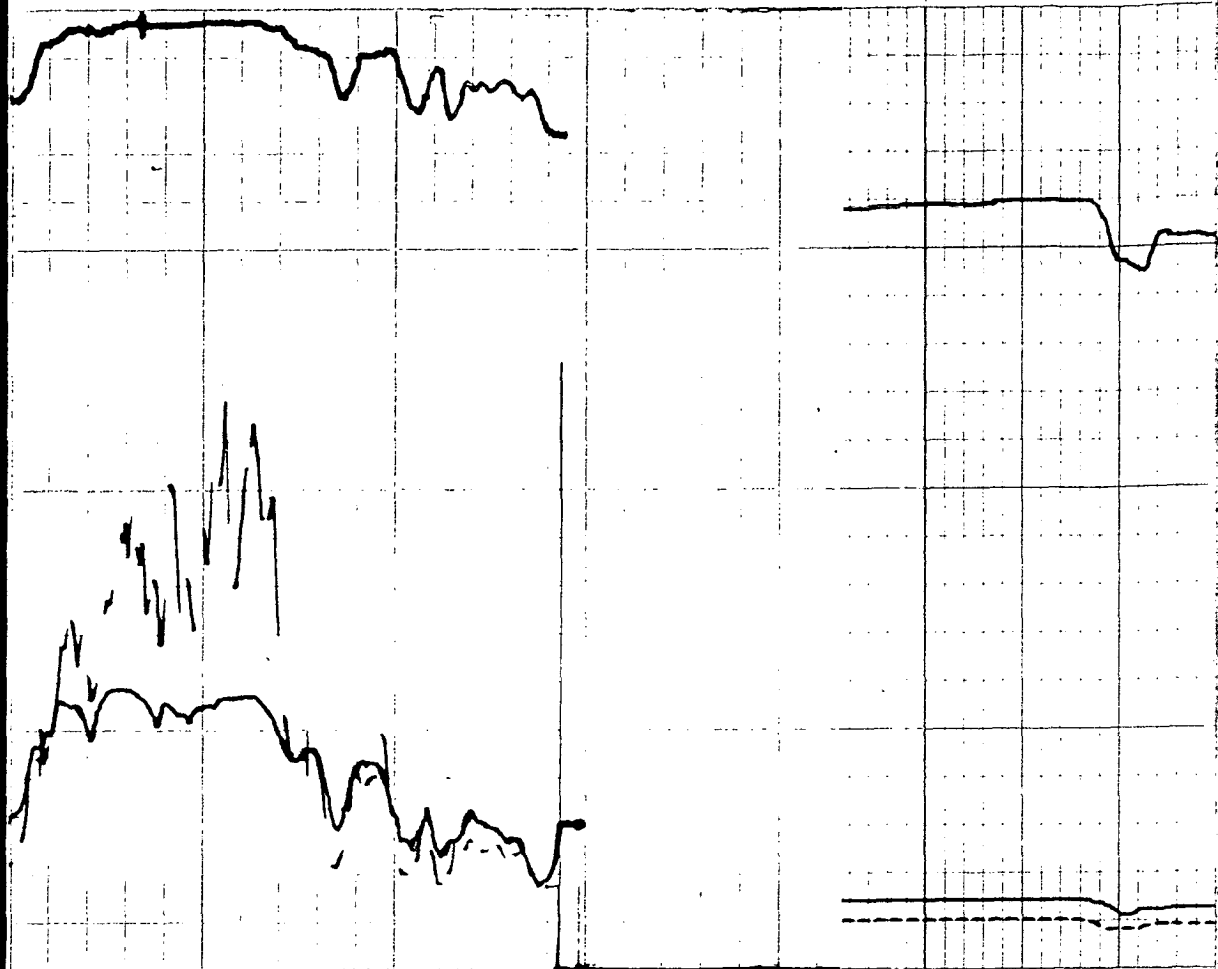


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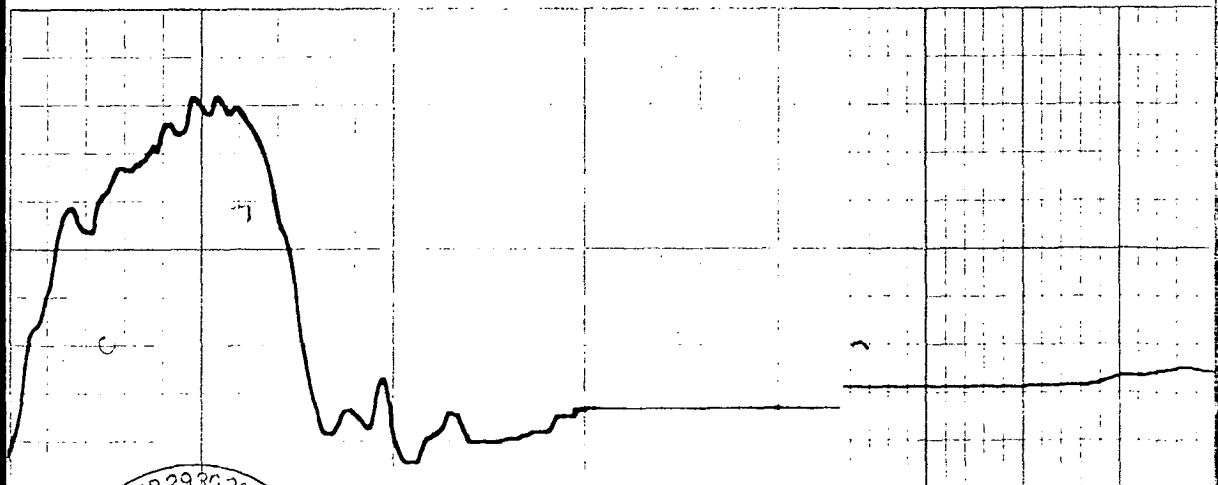
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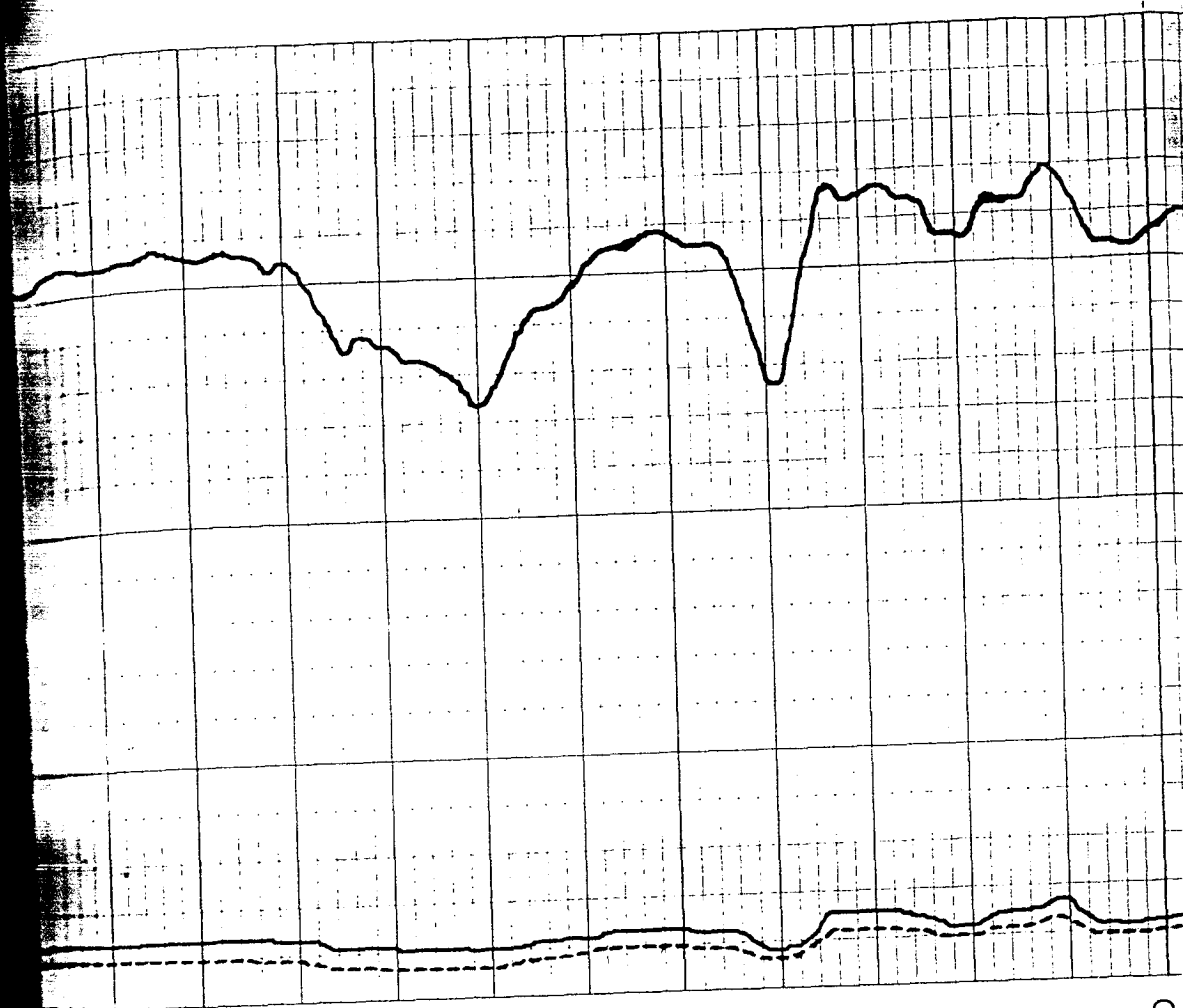


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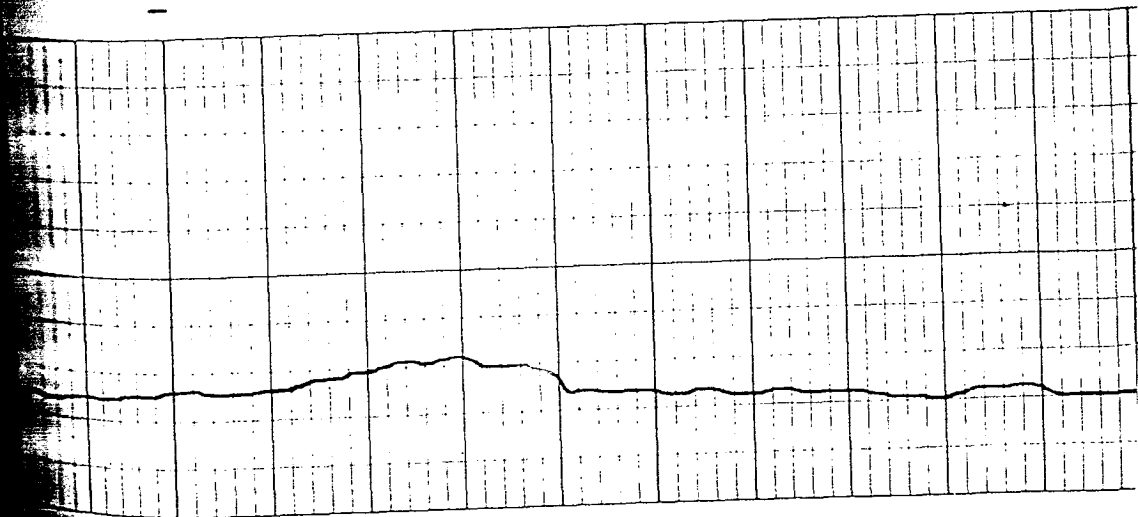


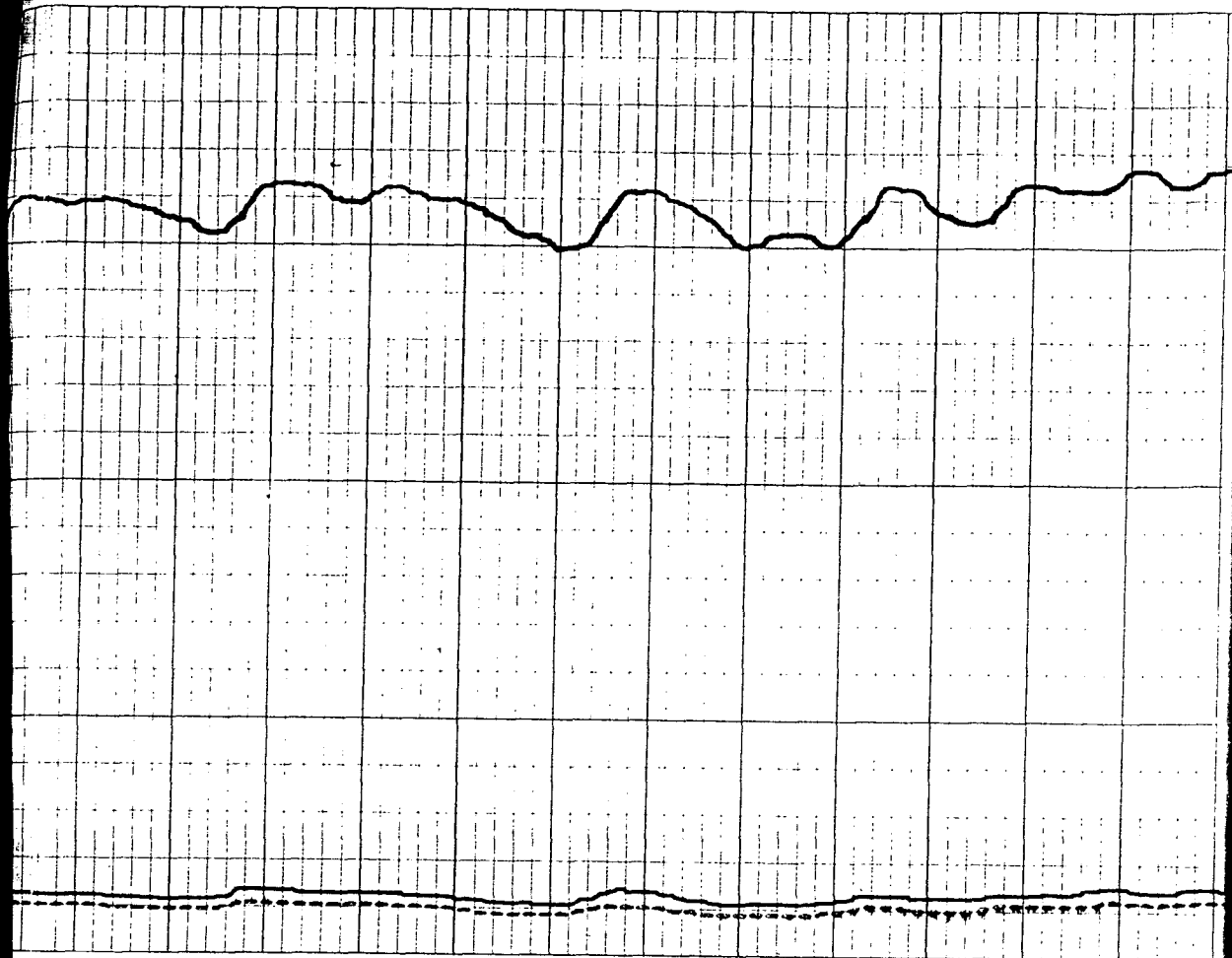
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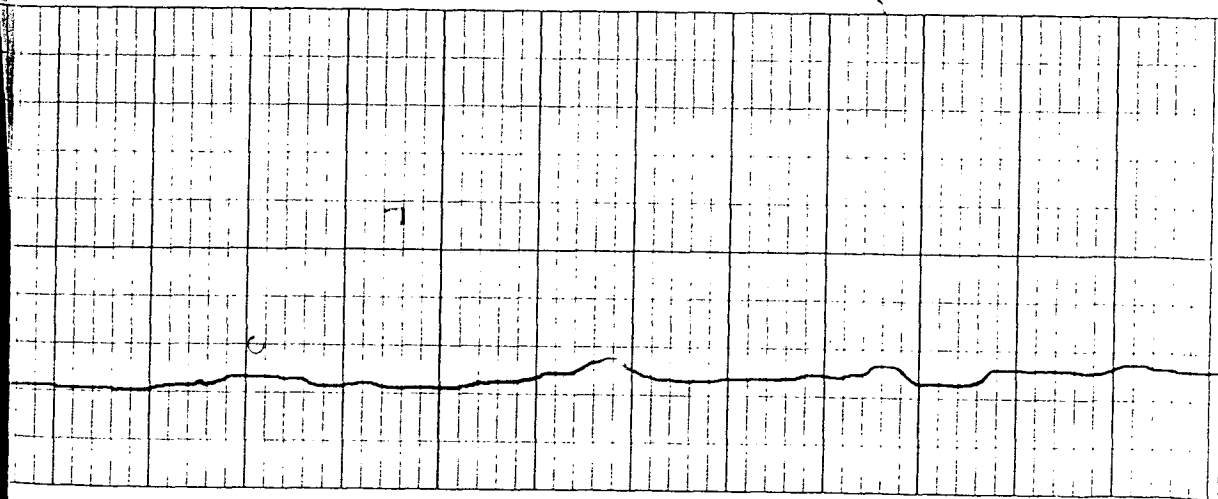
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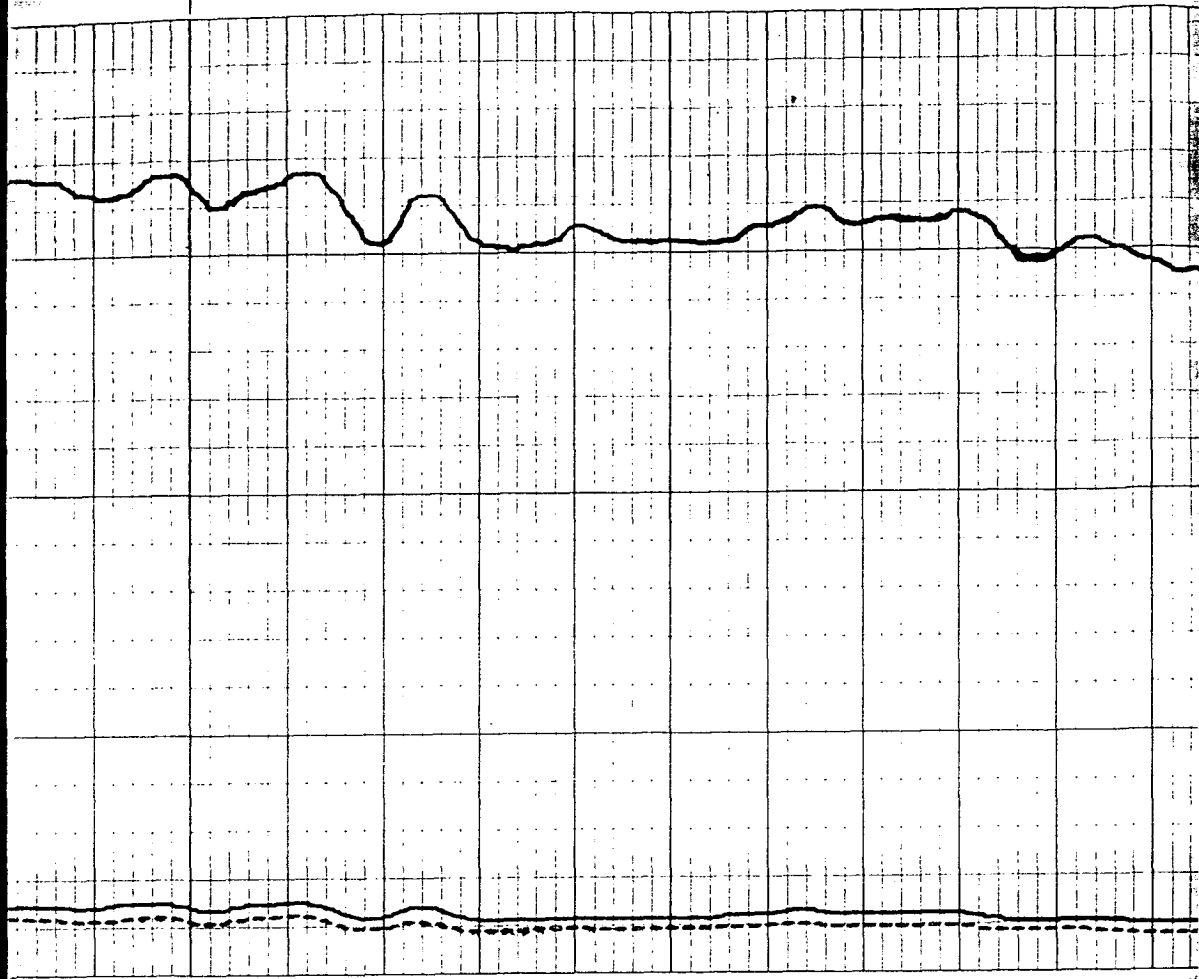
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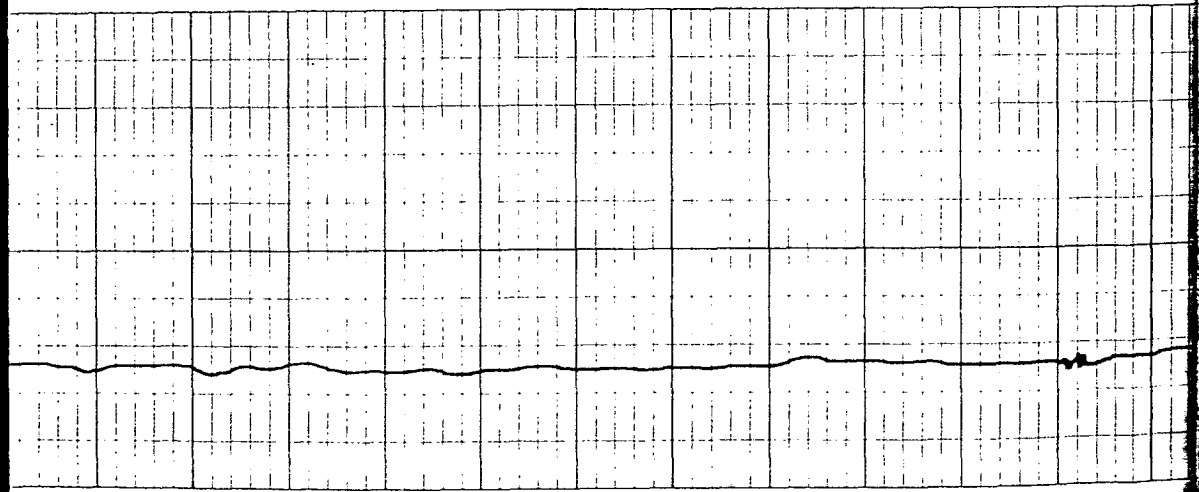


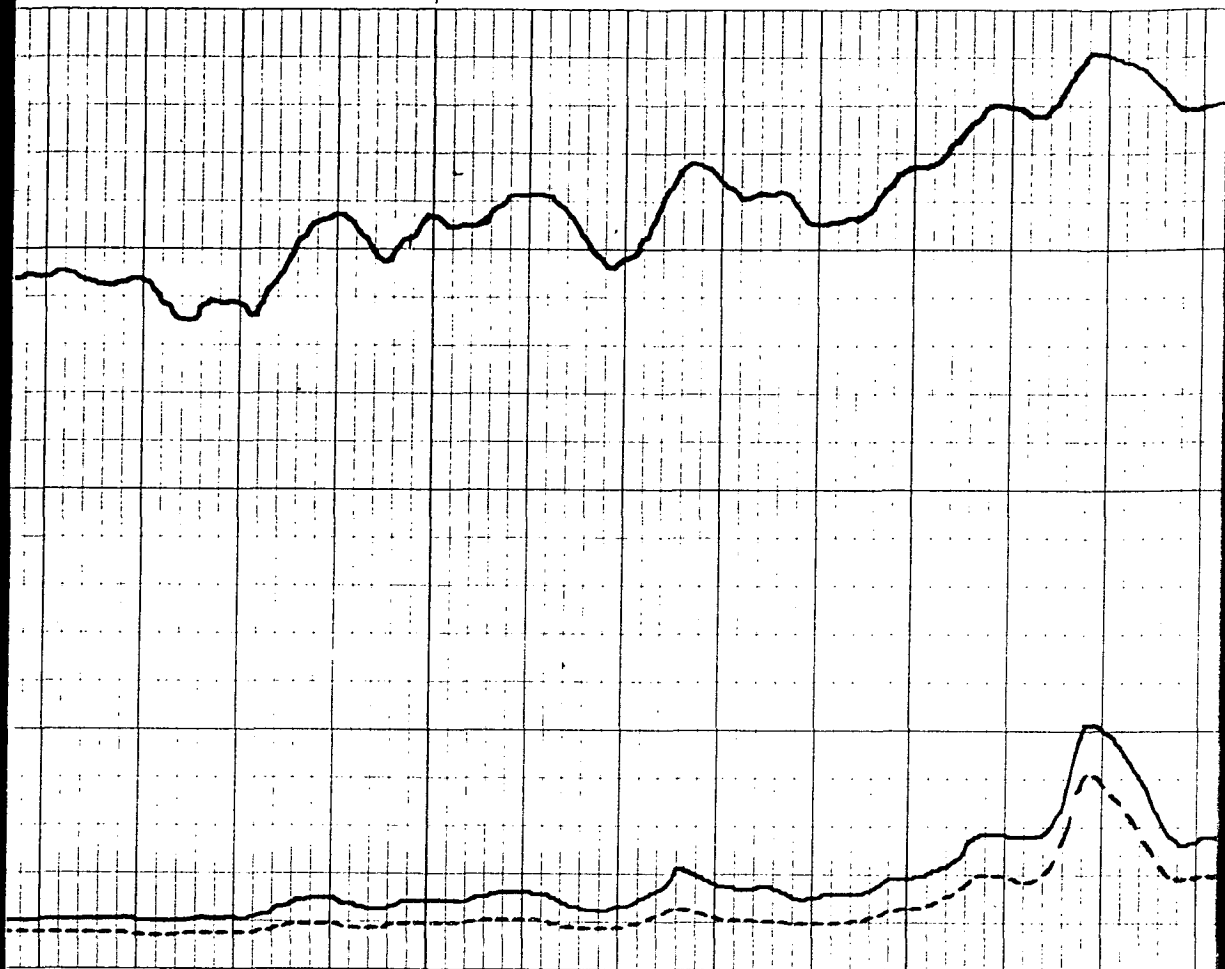
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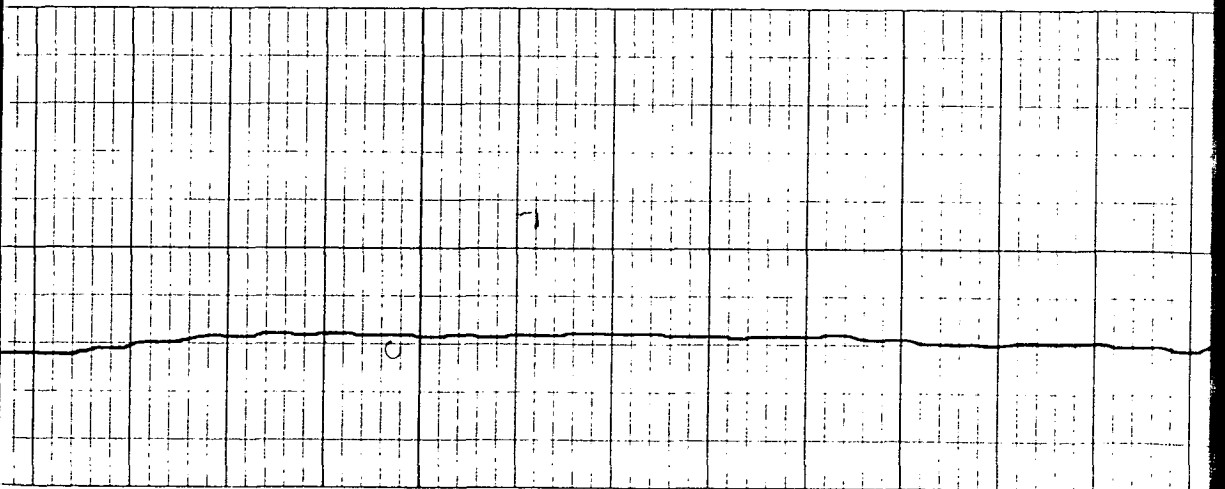


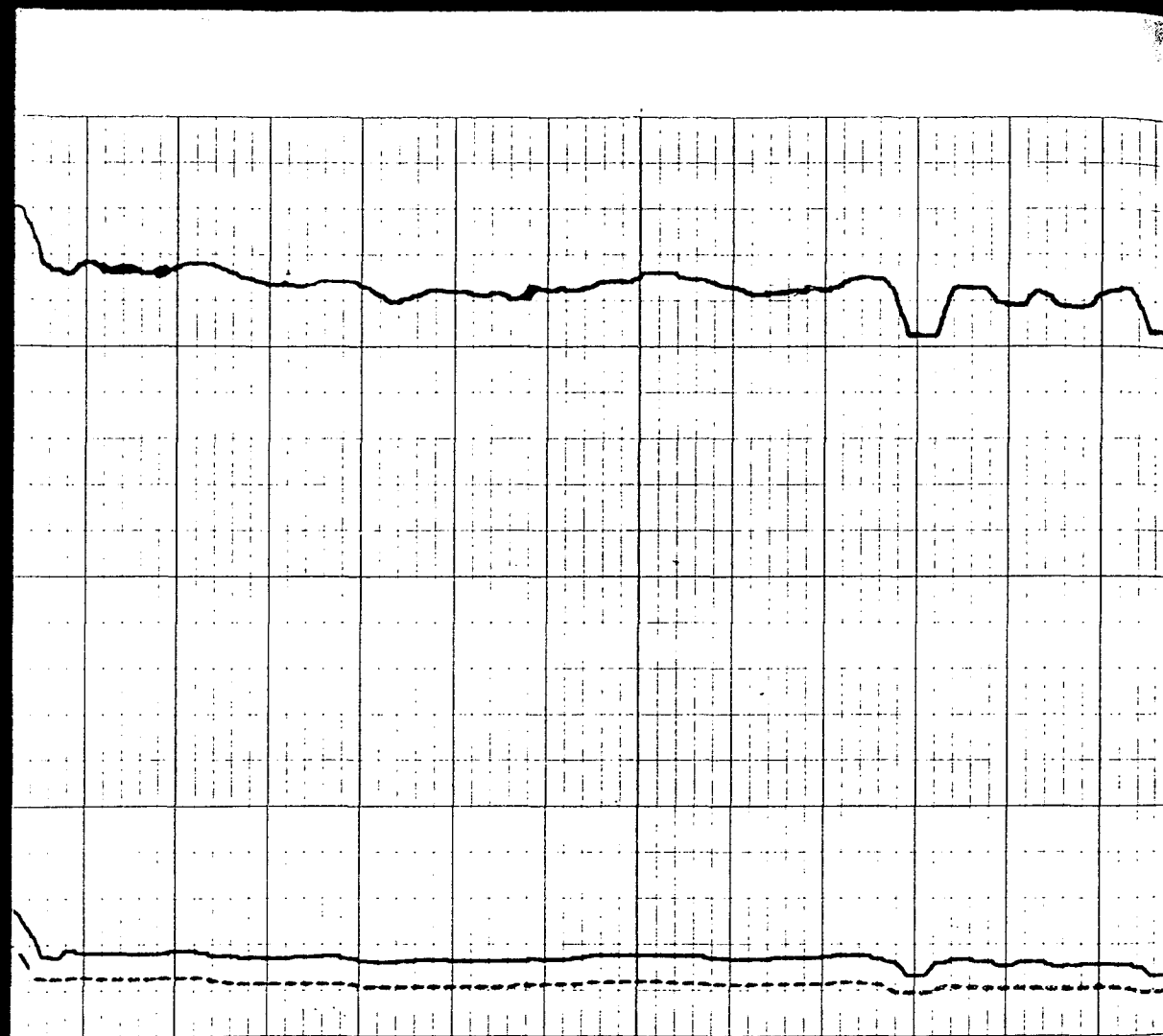
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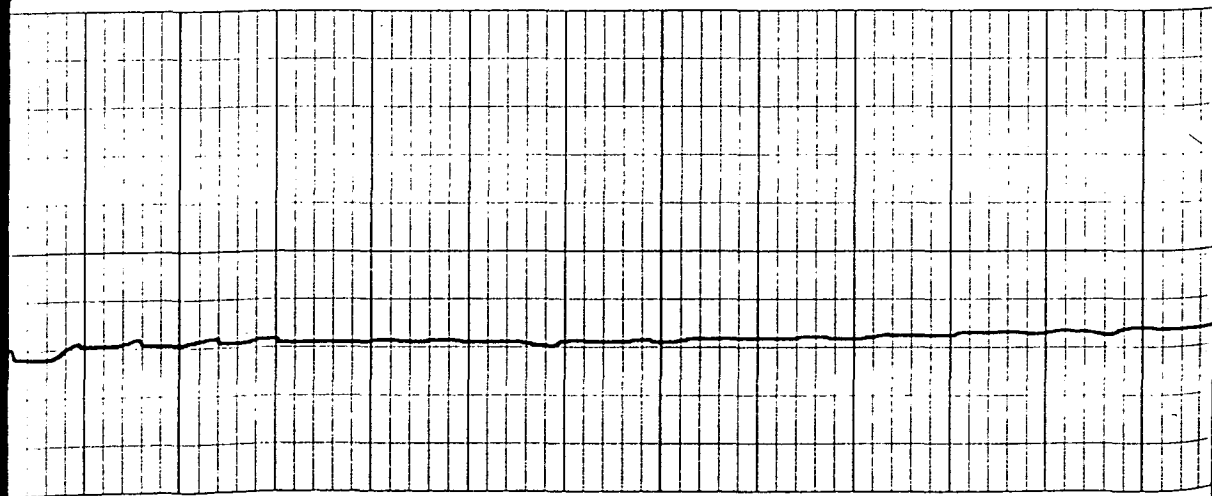
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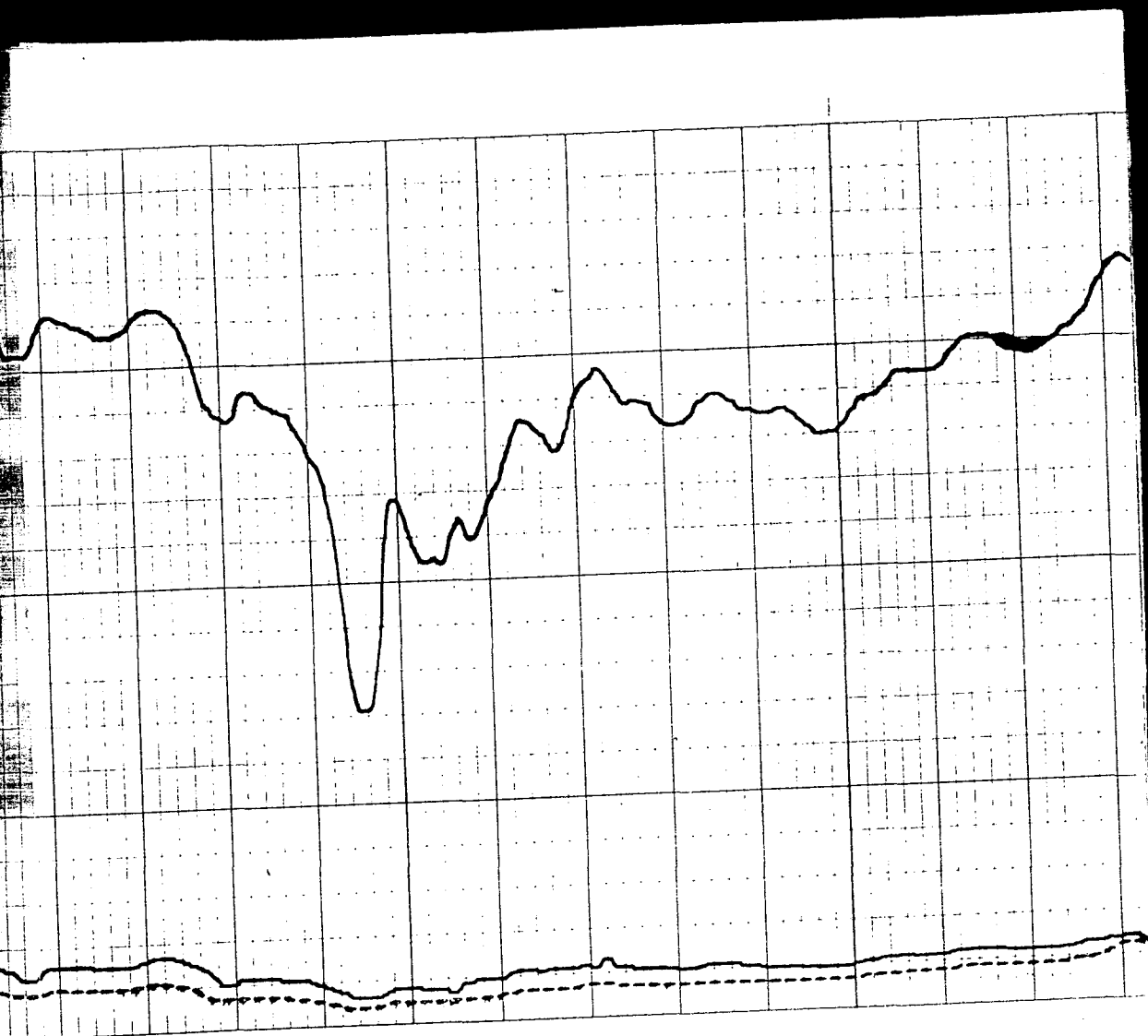




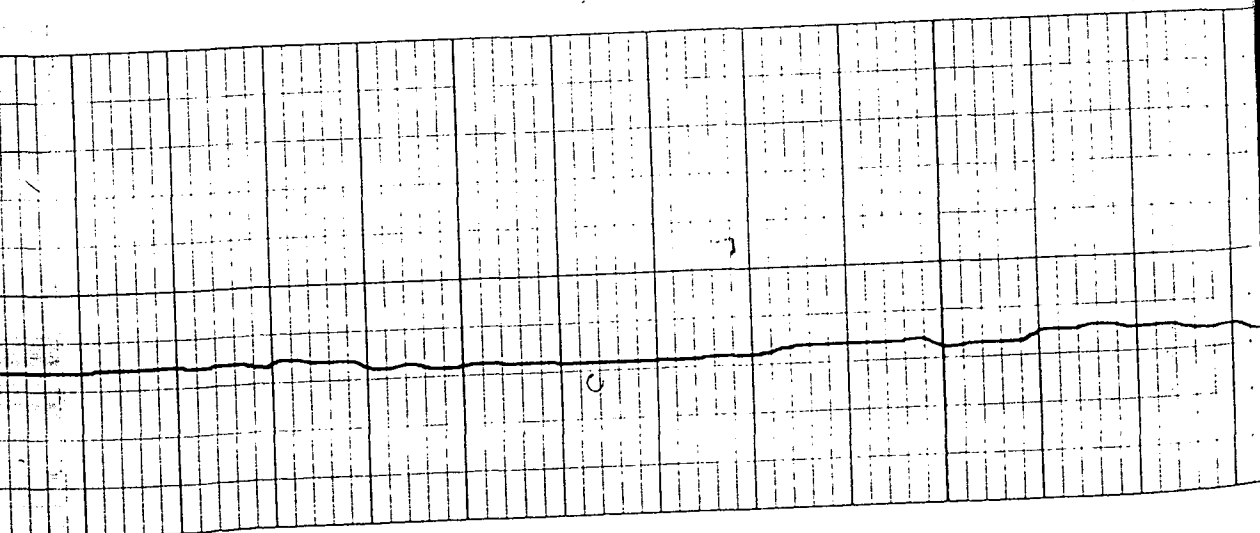
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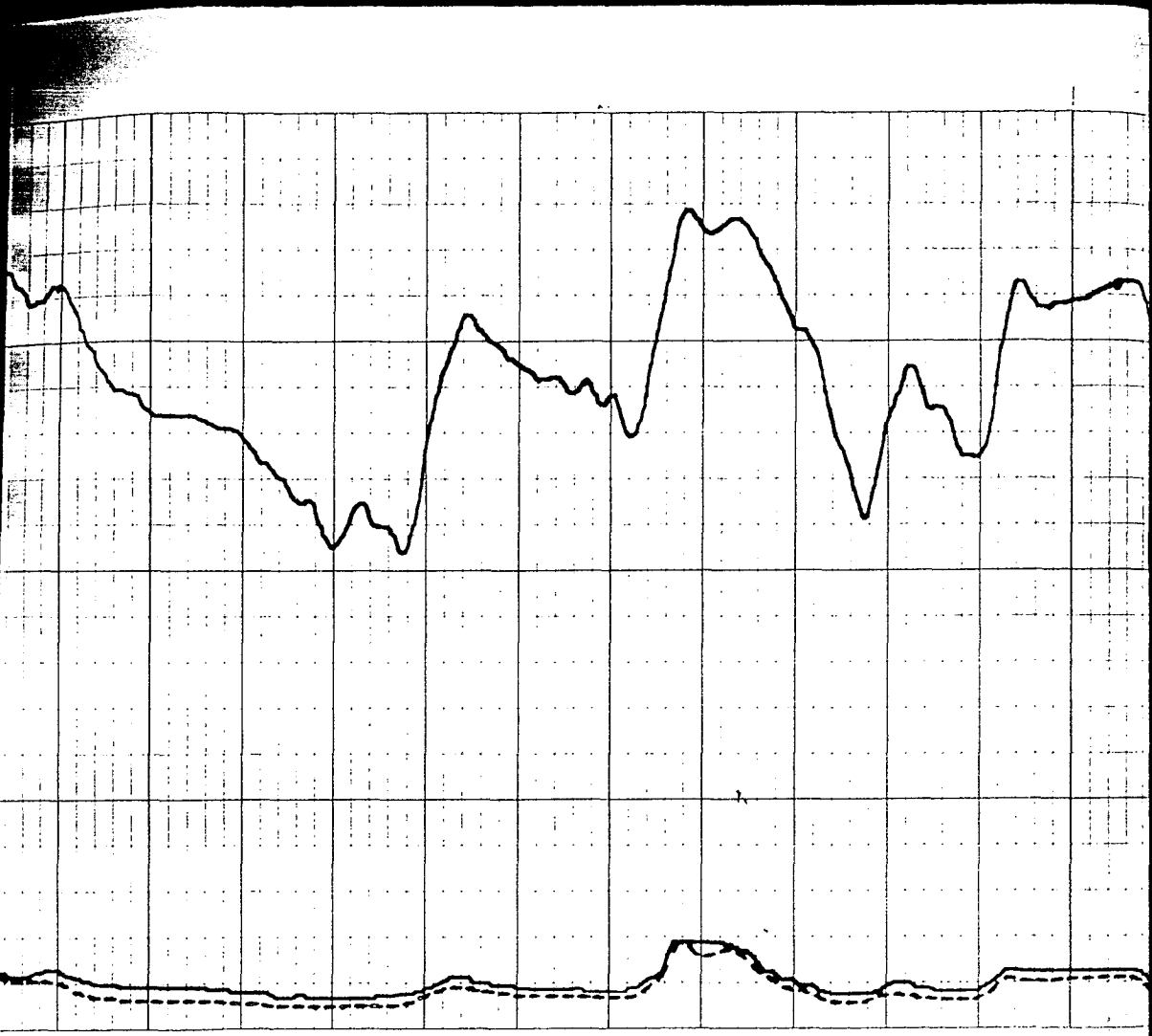
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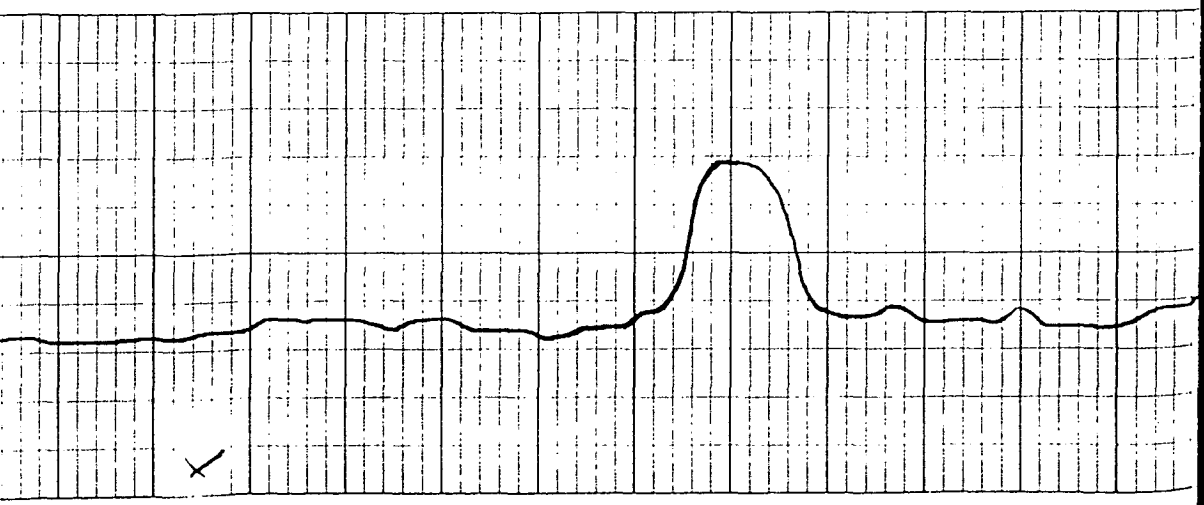


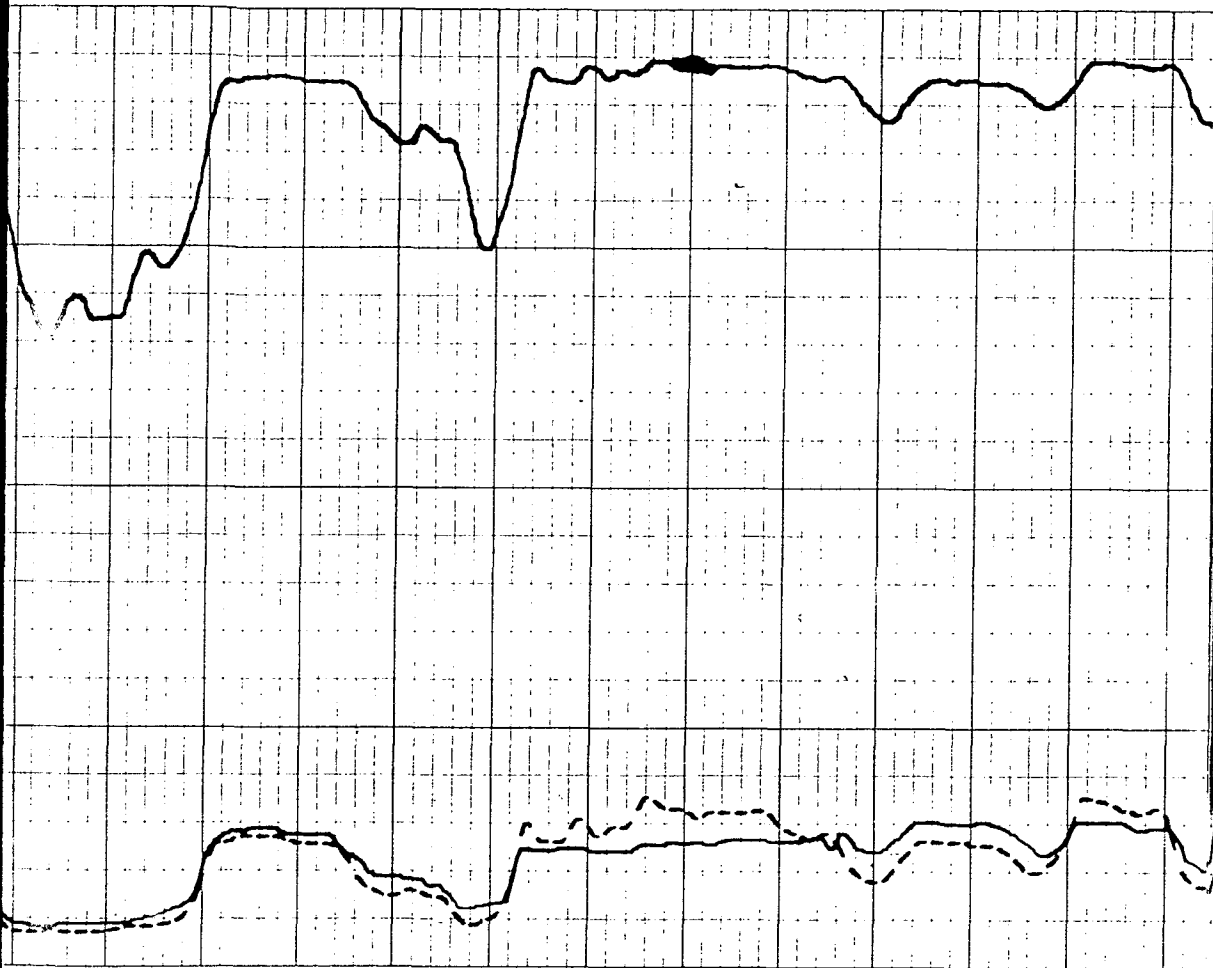
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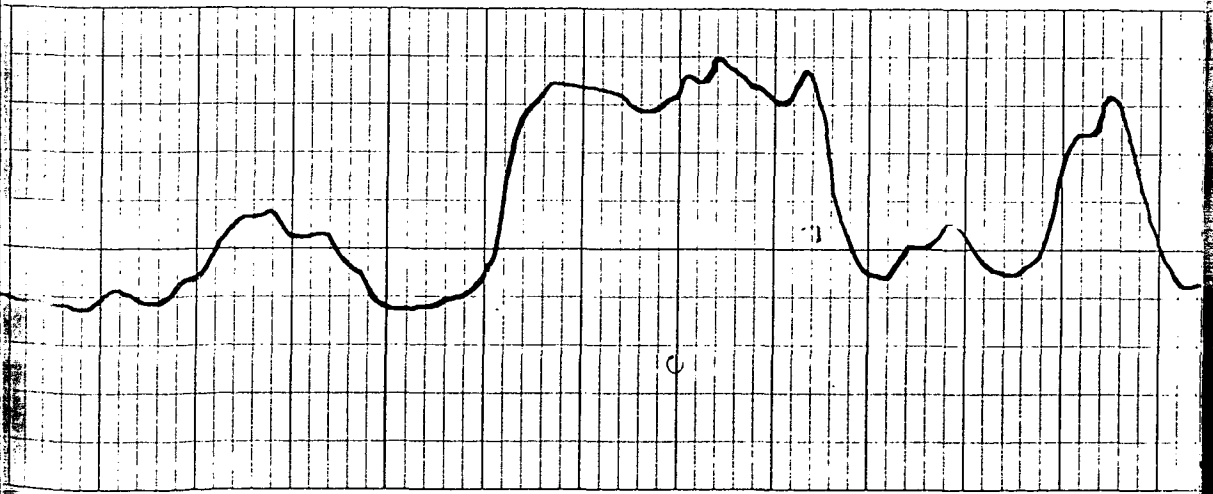


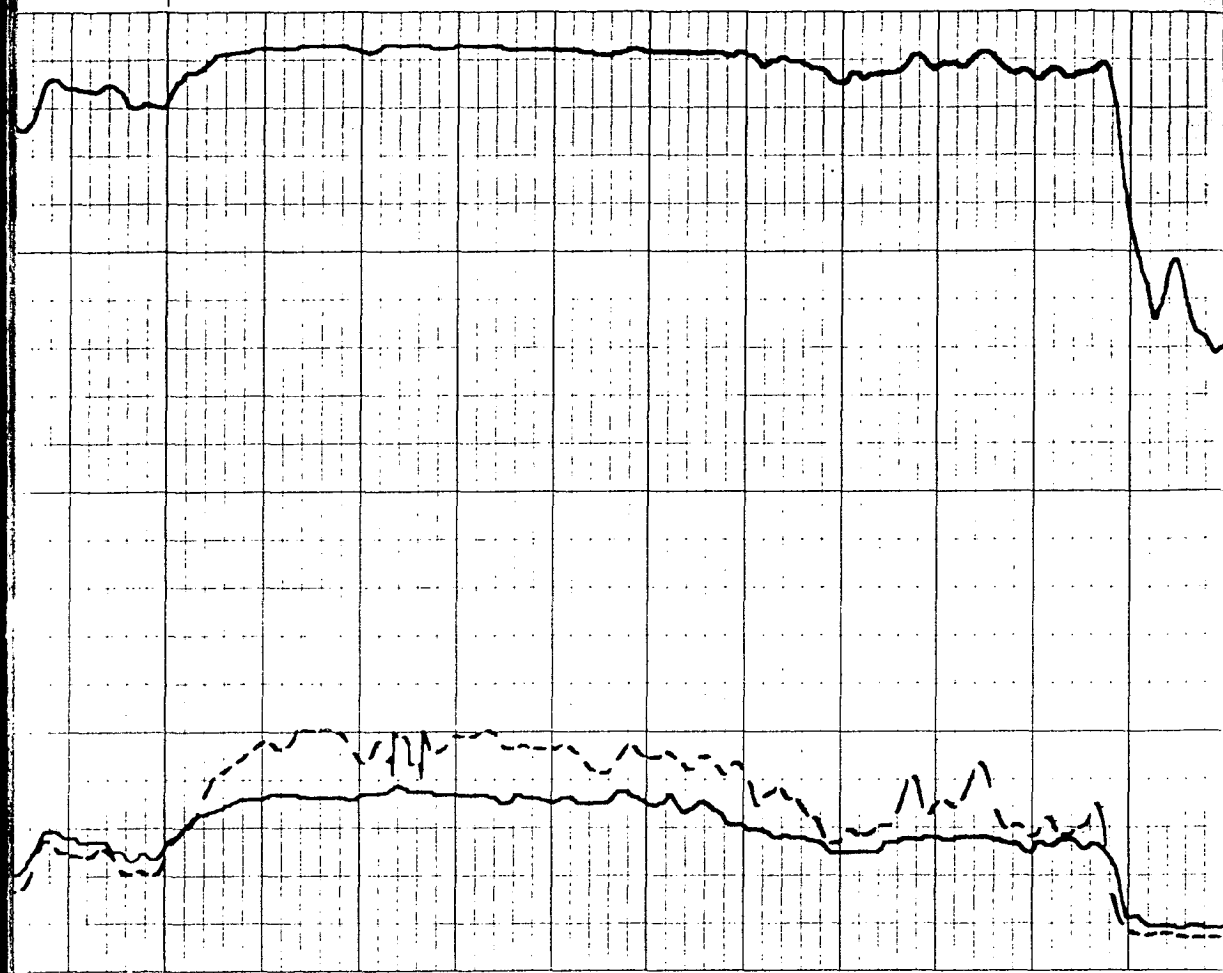
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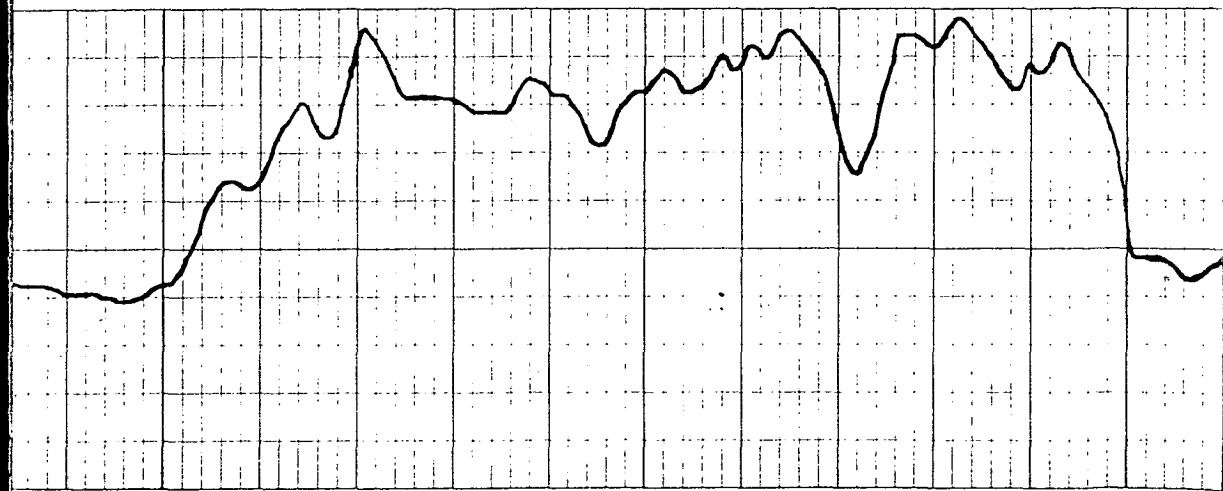
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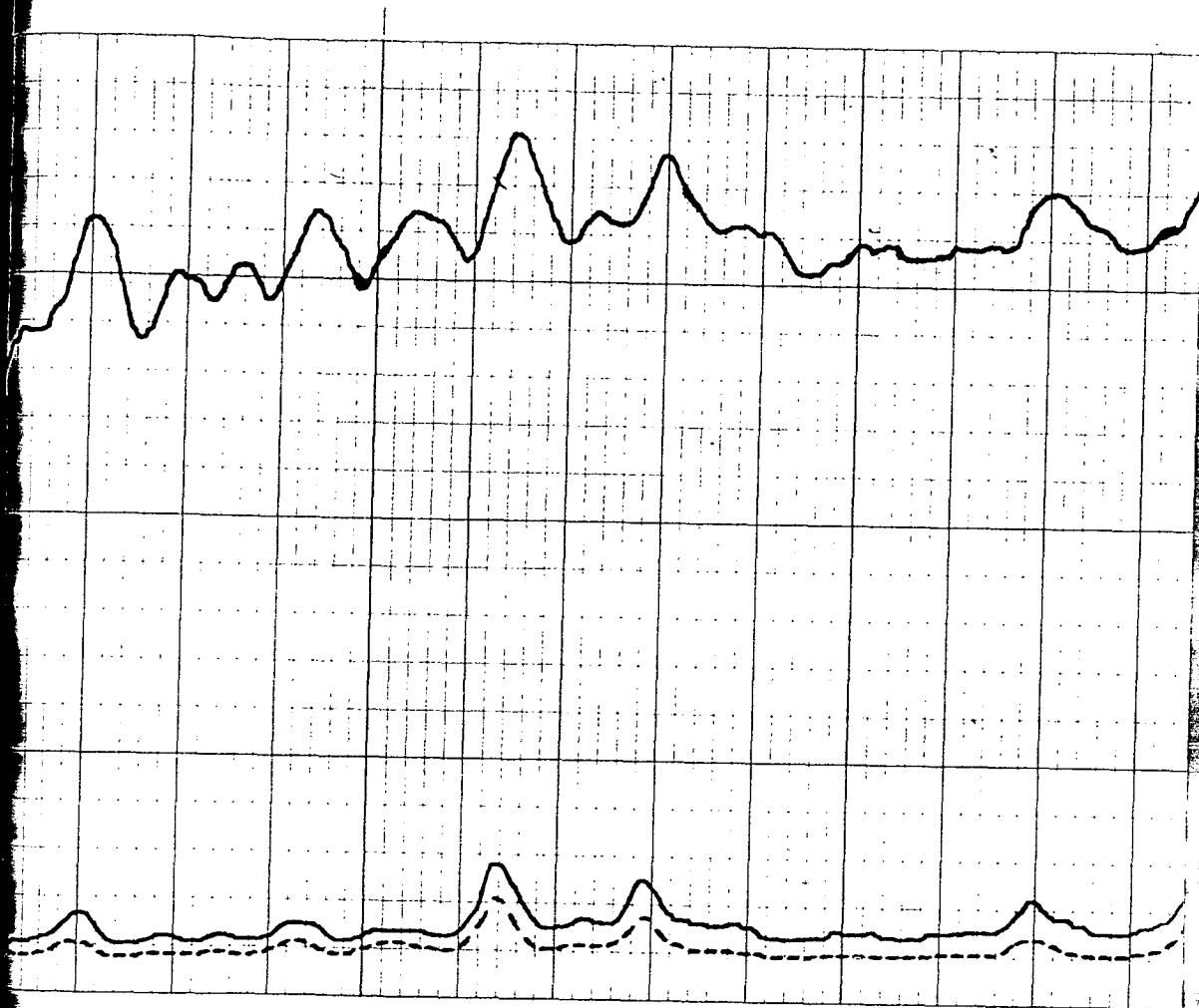




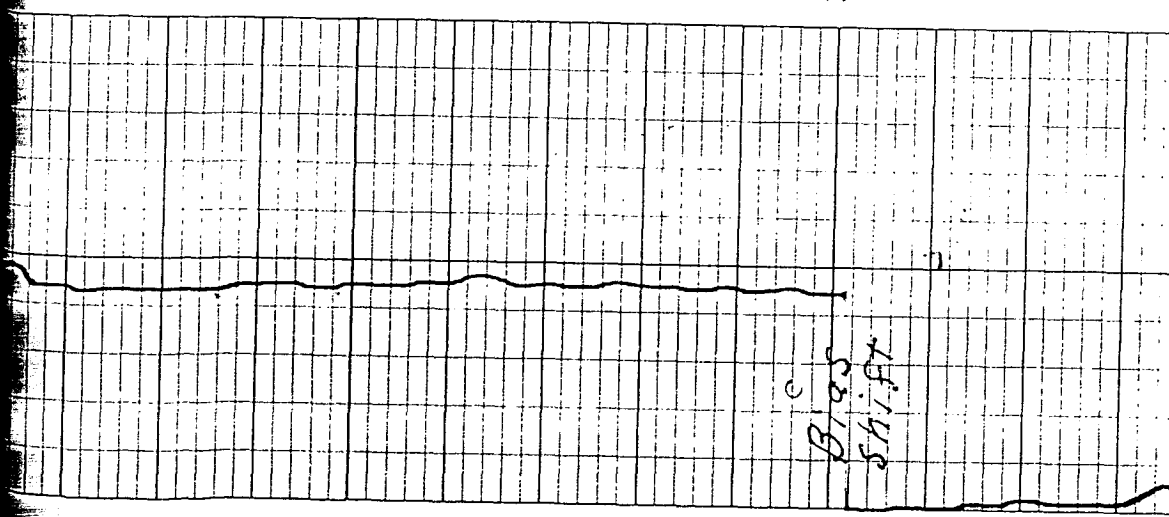
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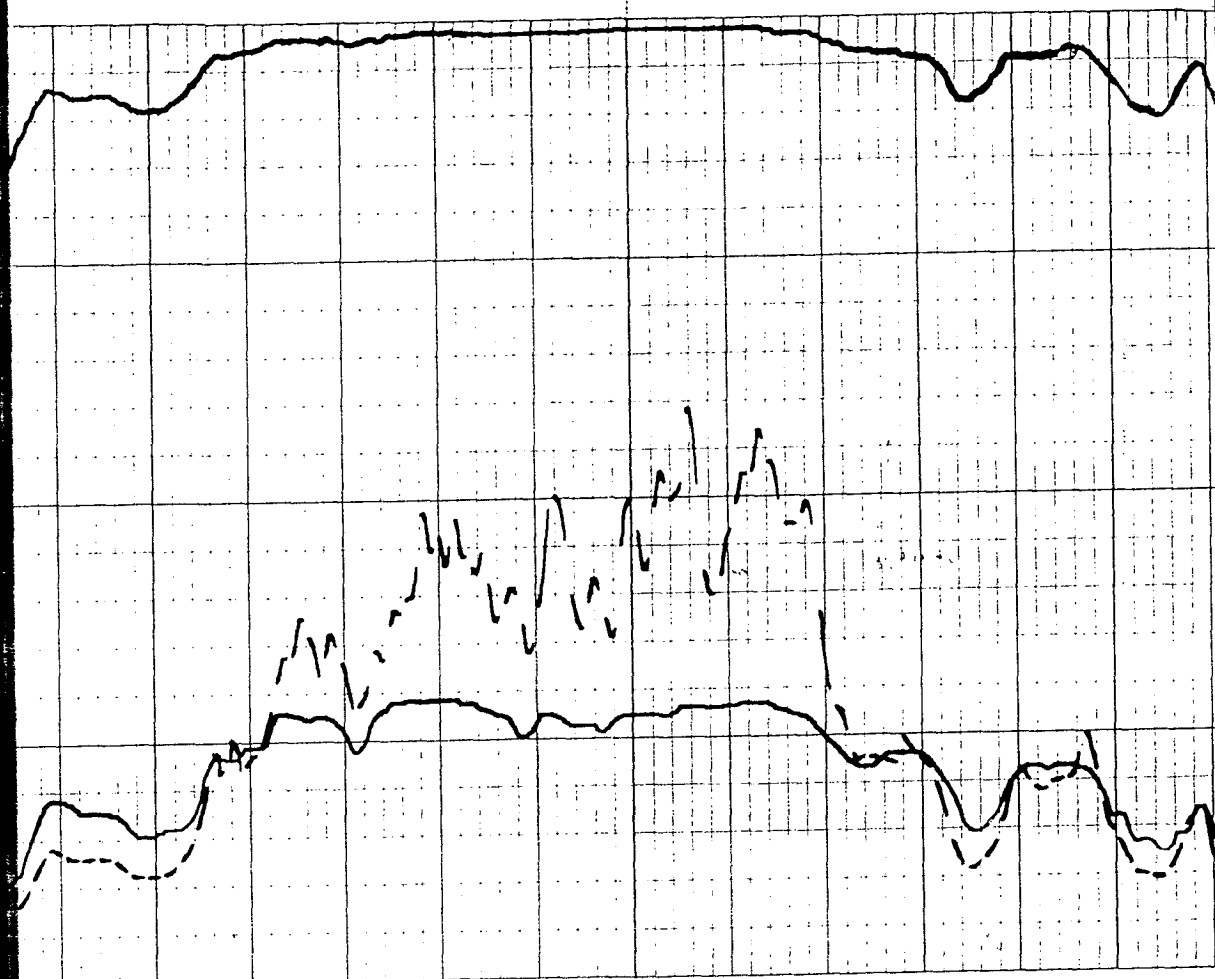




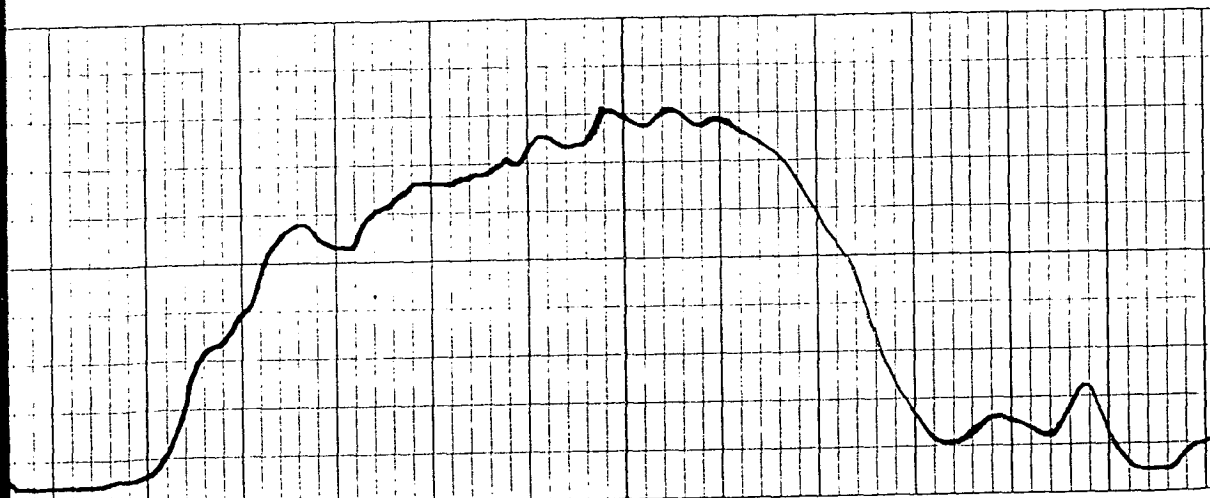
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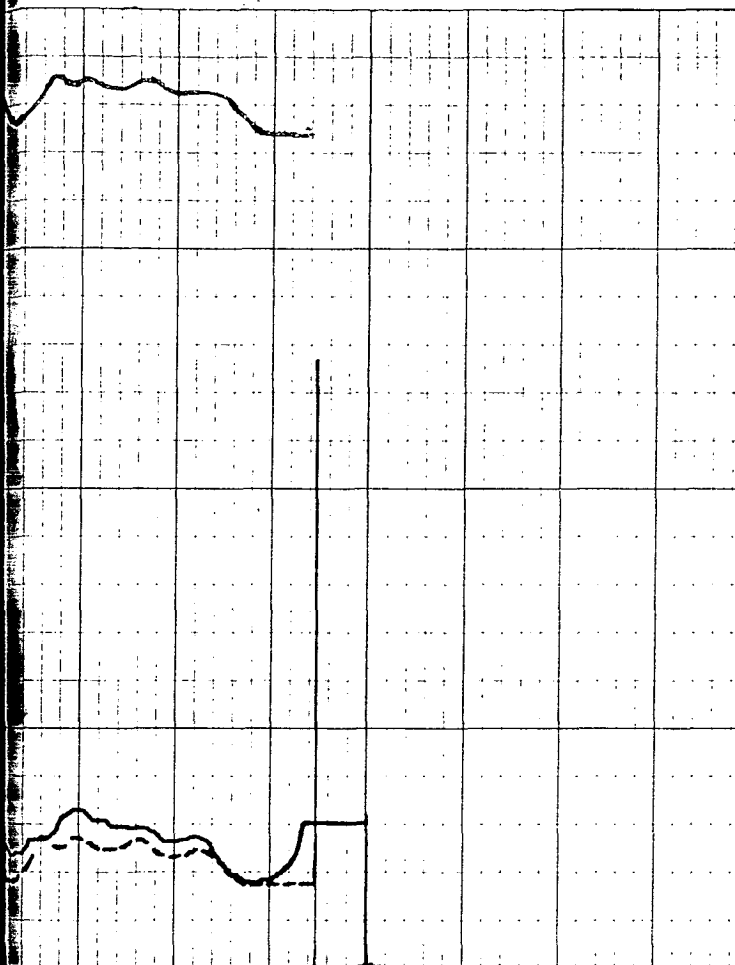


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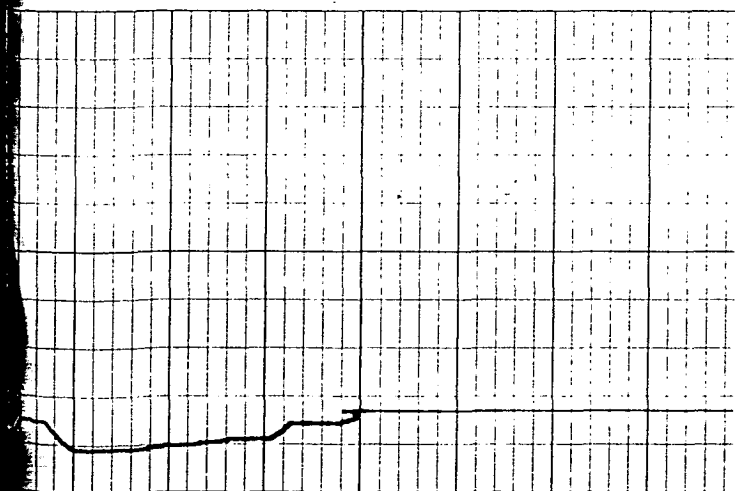


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This Heading and Log Conform To ADI DD 31-A

Field Use

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REPORT ON WATER PERMIT APPLICATION NO. 2075-2
THE CITY OF WALL
April 3, 1989

This application proposes to appropriate 0.44 cfs from one well approximately 3200 feet deep. The well is to be located in the NW 1/4 NW 1/4 of Section 31, T1N, R16E in Pennington County. The water will be used by the City of Wall for municipal purposes.

Aquifer - Inyan Kara (INKR)

The Inyan Kara is a lower Cretaceous age formation consisting of sandstone and shale. The lower sandstone unit is called the Lakota and an upper sandstone unit is called the Fall River. These are separated by a unit called the Fuson which is a shale. The total sandstone thickness in this area is approximately 230 feet (Rahn, 1976). However, drilling for well #5 resulted in only 85 feet of Inyan Kara. There can be significant changes in formation thickness and subsequent well yields.

The Inyan Kara Aquifer contains 23.4 million acre feet of recoverable water in Pennington County (Allen, 1984) and is under artesian conditions at this site.

Review of Existing Water Permits

There are a number of water permits in the area. These are Nos. 639-2, 724-2, 998-2, 1102-2, 1361-2, 1868-2 and 1982-2. All of these but 1102-2 belong to the City of Wall. A review of these permits is provided in a report on Application NO. 1982-2 for the City of Wall. The last well #5 drilled for Wall was unsuccessful and the well has been capped. Water levels are about 500 feet below land surface and do fluctuate because of pumping. Recorded changes of over 70 feet have occurred on city well #3 when a water level recorder was temporarily installed from July 1985 until July 1988. Two separate aquifer tests have been run, one in 1972 and one in 1985. Historical data indicates water levels have probably declined in excess of 100 feet since the City first began using the Inyan Kara in 1960 (Water Rights, 1989).

Conclusions

1. Water is available from the Inyan Kara aquifer.
2. The Inyan Kara is under artesian conditions.
3. Interference will occur and is documented by the two aquifer tests. However, this does not adversely affect the water supply to properly constructed wells. The well should be designed to allow a pump to be lowered.
4. This well is approximately 1/2 mile from city well #4 so spacing is not critical.

5. There is not sufficient data to determine if declines in excess of 100 feet can be attributed to lack of recharge. I believe this is due to the effects of pumping and the aquifer characteristics rather than lack of recharge. Even if mining were occurring this permit can be approved in accordance with SDCL 46-6-3.1.
6. The completed well (#6) must be constructed in accordance with SD Well Construction Standard 74:02:04:30.
7. The problems which are obvious on well #5 can be practically avoided if a test hole is drilled first to determine the formation thickness.


JAMES A GOODMAN, P.E.
Hydrologist

Bibliography

- Allen, J.C., 1981, Analysis of Ground Water and Streamflow Data Western Dakotas Region of South Dakota, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD, 57069.
- Rahn, P.H., 1976, A Pump Test In the Dakota Sandstone at Wall, South Dakota, Circular 43, SD DWR, SDGS, Vermillion, SD, 57069.
- Water Rights, 1989, Unpublished Data, Water Levels For City Well #3 and 2nd Aquifer Test, SD DWR, Water Rights Division, Joe Foss Building, Pierre SD 57501.

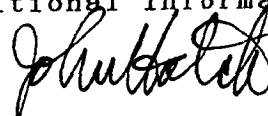
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2075-2, City of Wall

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 2075-2, City of Wall, c/o David L. Hahn, Mayor, Box 314, Wall SD.

The Chief Engineer is recommending APPROVAL of Application No. 2075-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The well authorized by Permit No. 2075-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
April 3, 1989



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

May 4, 1989

David L Hahn, Mayor
City of Wall
Box 314
Wall SD 57790

Dear Mayor Hahn:

Enclosed is the Report and the Recommendation of the Chief Engineer for Water Permit Application No. 2075-2 which will be considered at the May 10, 1989 Water Management Board Meeting.

Sincerely,

Karen Schlaak

KAREN SCHLAACK
Senior Secretary
605 773-3352

enclosures





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 5, 1989

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

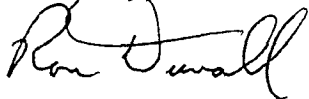
David L. Hahn, Mayor
City of Wall
Box 314
Wall SD 57790

Dear Mayor Hahn:

Water Permit Application No. 2075-2 for municipal use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Pennington County Courant printed at Wall SD. For your information, a copy of the notice is enclosed. The recommendation of the Chief Engineer and a report on the application will be sent later. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Intent to Appropriate Water and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,



Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures



 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 5, 1989

Pennington County Courant
Box 435
Wall SD 57790

Dear Sir:

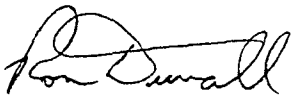
Enclosed is a Notice of Hearing on Application No. 2075-2 to be published twice. Please publish the first notice on or before April 12, 1989 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is the City of Wall, c/o David L. Hahn, Mayor, Box 314, Wall SD 57790.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,



Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE

TO: Ron Duvall
Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



Instruction to Newspaper - Publish first Notice on or before April 12, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2075-2 to Appropriate Water

Notice is given that the City of Wall, c/o David L Hahn, Mayor, Box 314, Wall SD 57790 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well (Inyan Kara Aquifer) 3200 feet deep. The well is to be located in the NW 1/4 NW 1/4 Section 31, T1N, R16E. Water will be used by the City of Wall for municipal purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2075-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E Capitol, Pierre SD on May 10, 1989 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by April 28, 1989. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application and the signature and mailing address of the petitioner or legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by April 28, 1989.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Pennington) ss.

I, Belle Ravellette hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Pennington County Courant

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

City of Wall

County of Pennington and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

April 13, 1989

April 20, 1989

Belle Ravellette
(Signature)

Advertising Manager
(Title)

April 20, 1989
(Date Signed)

Cost of Printing: 33.66



Notice of Hearing

NOTICE OF HEARING
ON APPLICATION No. 2075-2
TO APPROPRIATE WATER

Notice is given that the City of Wall, co David L. Hahn, Mayor, Box 314, Wall, SD 57790 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well (Inyan Kara Aquifer) 3200 feet deep. The well is to be located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 31, T1N, R16E. Water will be used by the City of Wall for municipal purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 2075-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on May 10, 1989 at 10:00 a.m. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

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This application is made pursuant to SDCL 46-1-1 through 46-1-9, 46-1-12 through 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 through 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 through 46-5-11, 46-5-13 through 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, and Board Rules ARSD 74:02:01:01 through 74:02:01:15.
Pub.: April 13 and 20, 1989



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

AUG 1 1989

David Hahn, Mayor
City of Wall
Box 314
Wall, SD 57790-0314

Dear Mr. Hahn:

Enclosed is Water Permit No. 2075-2 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

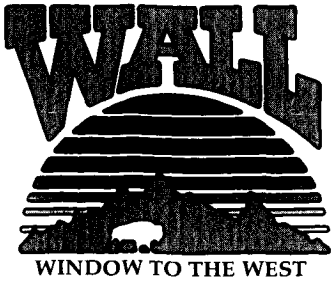
JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.





City of Wall
501 MAIN STREET P.O. BOX 314
WALL, SOUTH DAKOTA 57790-0314
Phone 605/279-2663



July 13, 1990

John Hatch, Chief Engineer
Water Rights Division - DWR
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

Dear Mr. Hatch:

Enclosed is the NOTICE OF COMPLETION OF WORK AND APPLICATION OF WATER TO BENEFICIAL USE and a copy of the applicable Water Permit No. 2075-2. Please let me know when the inspection will be scheduled.

Sincerely yours,

CITY OF WALL

Joan Renner
Finance Officer

Enclosures 2



NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE

Date July 13, 1990

TO: Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501-3181

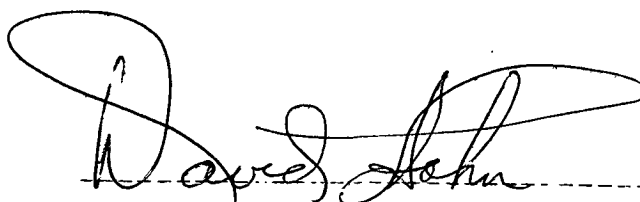
FROM: CITY OF WALL Box 314 Wall
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 2075-2.

Water Permit No. 2075-2 states that the diversion system is to be constructed by May 10, 1994, and that the water it put to beneficial use by May 10, 1998.

The diversion system was completed on _____.
Applying the water to beneficial use was completed on June 29, 1990

You may schedule an inspection so that the Water License may be issued.


signature



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

July 23, 1990

2075-2

Joan Renner
Finance Officer
City of Wall
PO Box 314
Wall, SD 57790-0314

Dear Ms. Renner:

The "Notice of Completion of Works and Application of Water to Beneficial Use" for Water Permit No. 2075-2 has been received.

An inspection of the water use system as constructed by the City of Wall will be scheduled as soon as time permits. You have complied with the requirements for obtaining a water permit. The intervening time between submission of the "Notice of Completion of Works" and the actual inspection of the system, has no bearing on the water permit. You will be contacted by staff prior to the inspection.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

Genny McMath
Natural Resources Analyst
(605) 773-3352

South Dakota

2075-2

GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

September 3, 1992

2075-2

Joan Renner, Finance Officer
City of Wall
P.O. Box 314
Wall, SD 57790-0314

Dear Ms. Renner:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 2075-2, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Cheryl F. Frost

Cheryl F. Frost
Secretary
Water Rights Division
(605) 773-3352

NOTE: On check or money order, please specify your permit number.
This will insure proper handling of the fee.

RECEIPT

Division of Water Rights

413423

South Dakota Department of Environment and Natural Resources

Pierre, _____, September 14, 19 92

RECEIVED OF Joan Renner, City of Wall, PO Box 314, Wall, SD 57790-0314

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>2075-2</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer

Permit No. 2075-2

Water District: Bad River

Report Of Examination Of Works And/Or Application of Water To Beneficial Use:

I have this day made a thorough examination of the water use system constructed by City of Wall of Box 314, Wall SD 57790 holder of Permit No. 2075-2, bearing the priority of March 14, 1989 authorizing the diversion of 0.44 cu.ft. per second the waters of groundwater for supplying the City of Wall, in Pennington County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

A submersible pump, 185 gallons per minute capacity.

A submersible motor, 75 horse power.

B. Works used to transport water to place of use:

About 7920 feet of 6 inch Polyvinyl Chloride (PVC) pipe.

C. Works used to apply water to beneficial use:

Water is used in the City of Wall for municipal uses.

The system is in the following conditions: Very good. The point of diversion is located: Approximately 150 feet east, 100 feet south from the Northwest corner of Section 31, T1N-R16E (NW1/4 NW1/4).

The works are capable of diverting and conveying to the place of use 0.41 cu.ft. per second of groundwater which is used for municipal purposes.

The license should be issued for 0.41 cfs. Application permit qualifications have been complied with ☒ Yes No

Exceptions to compliance are: None

Date: 5/18/92



M. RASSOOL AHADI

Natural Resources Engineer III

DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NUMBER 2075-2

DATE 5/18/92

DIVERSION POINT LEGAL LOCATION: NW1/4 NW1/4 Section 31, T1N-R16E

WELL INFORMATION: Well Drilling Firm Taylor Drilling

- a) **Pump** 1) make Plueger (submersible) No. of Wells 5 (#6) Depth(s) 3120 feet
2) model PN-81-9VN8 c) **Casing:** 1) diameter 12-5.5 inches
3) size 6 inches 2) length 3034 feet
4) capacity 185 GPM 3) type Steel
5) turbine pump - No. of stages 28 d) **Screen:** 1) type None
6) operating pressure PSI 2) length feet
- b) **Motor:** 1) make Plueger (submersible) e) Static Water Level 600 feet
2) model No. 184000804
3) horsepower rating 75 HP

DISTRIBUTION LINES OR CANALS:

- a) type Polyvinyl Chloride (PVC) b) size 6 inches c) length 7920 feet

PERMIT QUALIFICATIONS AND REGULATIONS:

- a) Soil and water permit lands agree with lands being irrigated and lands listed on permit NA (Y/N)
b) Special qualifications to permit being abided by Y (Y/N)
c) All structures, wells and lands on map Y (Y/N)
d) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA (Y/N)

MR. Thad
Nat. Res. Eng.
8-21-92

RISE
RISE

well location

R 16 E

2794T

2802T

4876

14

16

T 1 N

36

31

2803T

WALL CORP BDY

BM 2783

2787

RR X-ING
2787

LAKE FLAT

R 15 E

R 16 E

4875000mN

T. 1 N.

Landing Field

T. 1 S.

31

2750

Trailer Park

Wall

BM 2818

2822

90

14

RAPID CITY 53 MI.

240

2075-2

285

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 2075-2

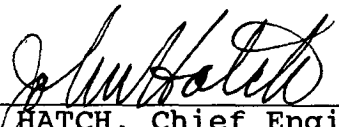
(1) The City of Wall of Box 314, Wall, SD 57790-0314 made Application No. 2075-2, March 14, 1989 for a water permit to appropriate 0.44 cubic feet of water per second from groundwater (one well), Pennington County, South Dakota for municipal purposes. Permit No. 2075-2 with a priority date of March 14, 1989 was approved May 10, 1989 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before May 10, 1994 and for the application to beneficial use of said water on or before May 10, 1998.

The permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" on July 18, 1990. The "Notice" stated the diversion system was completed and water placed to beneficial use on June 29, 1990.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.41 cubic feet of water per second for beneficial use. The location of the diversion point is: approximately 150 feet east and 100 feet south of the NW corner of Section 31, T1N, R16E (NW 1/4 NW 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to Section 46-5-30.1 the City of Wall of P.O. Box 314, Wall, SD 57790-0314 the holder(s) and/or owner(s) of Water Permit No. 2075-2 is issued a license to appropriate water, the right to use 0.41 cubic feet of water per second from groundwater (one well) with a priority date of March 14, 1989 from the location specified in (2) of this license. The water is used for municipal purposes by the City of Wall. This license is subject to any limitations or qualifications listed in Water Permit No. 2075-2 and subject to South Dakota State Law.

 NOV 23 1992

JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



NOV 23 1992

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

2075-2

Joan Renner, Finance Officer
City of Wall
Box 314
Wall, SD 57790-0314

Dear Ms. Renner:

Enclosed is Water License No. 2075-2. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413423 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 2075-2, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures