SCHLUMBERGER

COMPENSATED FORMATION DENSITY LOG

Gamma-Gamma

COUNTY LEWIS
FIELD or LOCATION JACKSON PRAIRIE
WELL STORAGE UNIT 48
COMPANY WASHINGTON WATER POWER COMPANY

COMPANY THE WASHINGTON WATER POWER COMPANY

WELL STORAGE UNIT 48

FIELD JACKSON PRAIRIE

COUNTY LEWIS STATE WASHINGTON

Location: 603' EAST AND 187' SOUTH OF NORTHWEST CORNER

Sec. 17 Twp. 12N Rge. 1W

Other Services: GRN, CBL, BSL, I-ES

Permanent Datum: GL ; Elev.: 498
Log Measured From KB , 11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 509
D.F.
G.L. 498

Date	5-11-70		
Run No.	ONE		
Type Log	GR-GR		
Depth—Driller	2272		
Depth—Logger	2270		
Bottom logged interval	2269		
Top logged interval	601		
Type fluid in hole	FRESH		
Salinity, PPM Cl.			
Density	9.2		
Level	FULL		
Max rec. temp., deg F.	79° F		
Operating rig time	1 HOUR		
Recorded by	ANDERSEN		
Witnessed by	WURDEN		

RUN No.	BORE-HOLE RECORD Bit	From	To	CASING RECORD Size	Wgt.	From	To
1	$9\frac{7}{8}$	602	2272	$10\frac{3}{4}$	54	0	602

SWS-1381-D

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

EQUIPMENT DATA

Run No.	PG P-D	PDH-A	PGH-A	PGS-E	Source No.	SFT-106	SGH	Logging Unit	Location
1	372	156	138	179	2427	213	- - -	3716	SAC
2									
3									

CALIBRATION DATA

Run No.	Gamma Ray API Scale	Gamma Ray Background CPS	Gamma Ray Total CPS	FDC — Before Log — ACPS P_1	FDC — Before Log — ACPS P_2	FDC — After Log — ACPS P_1	FDC — After Log — ACPS P_2
1				348	672	348	672
2							
3							

LOGGING DATA

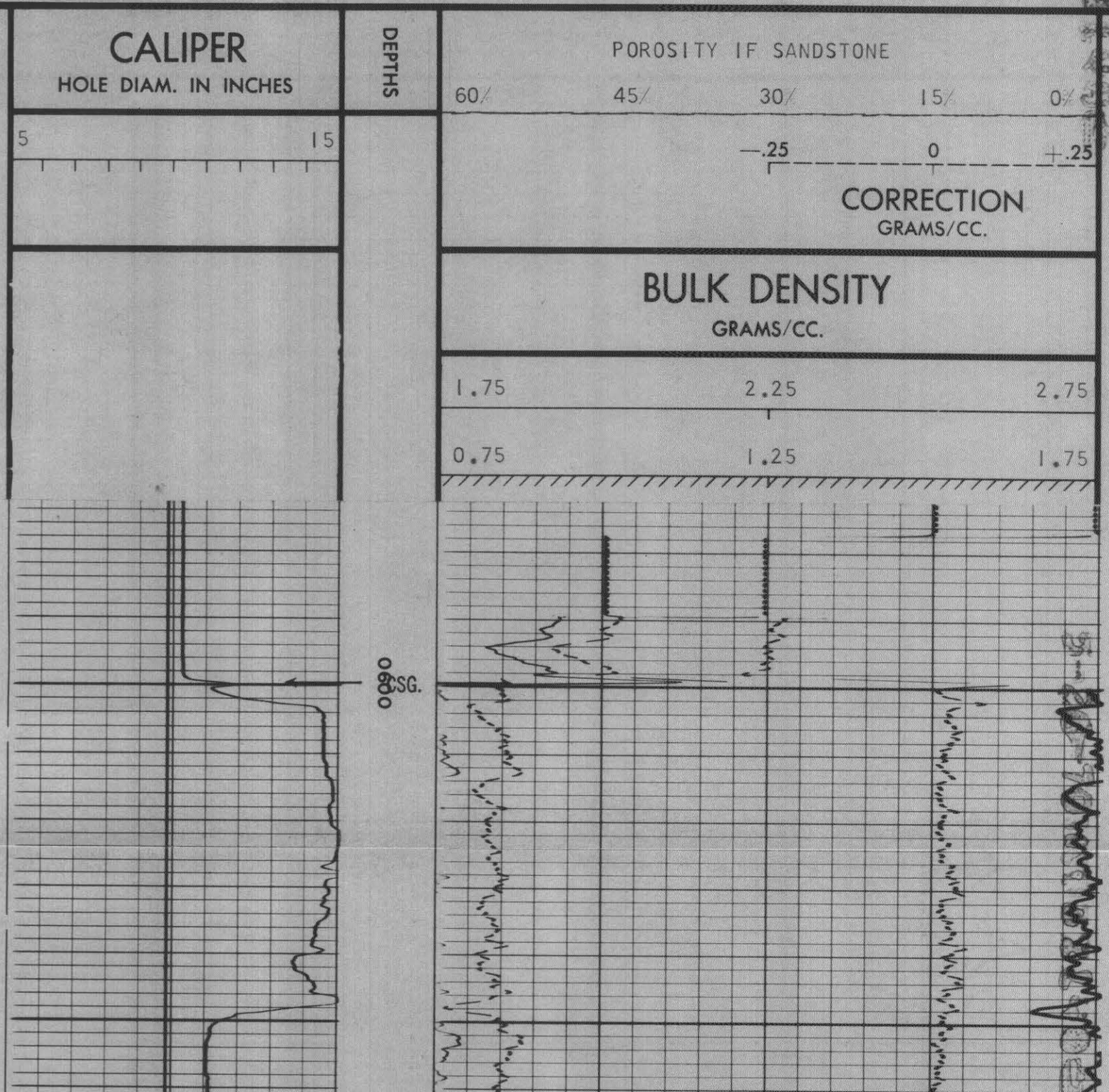
Run No.	General Depths From	General Depths To	Speed Ft./Min.	Tc	Gamma Ray API Scale	FDC Selectors Liquid Density	Grain Density	Hole Fluid	Porosity Scale
1	600	2268	30	2	- - - -	1.0	2.65	LIQUID	60 30 0

MUD DATA

Run No.	Rm. @ °F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @ °F	Solids, Av. Sp. Gr.
1	3.98 @ 57 °F				@ °F	
2	@ °F				@ °F	
3	@ °F				@ °F	

Remarks:

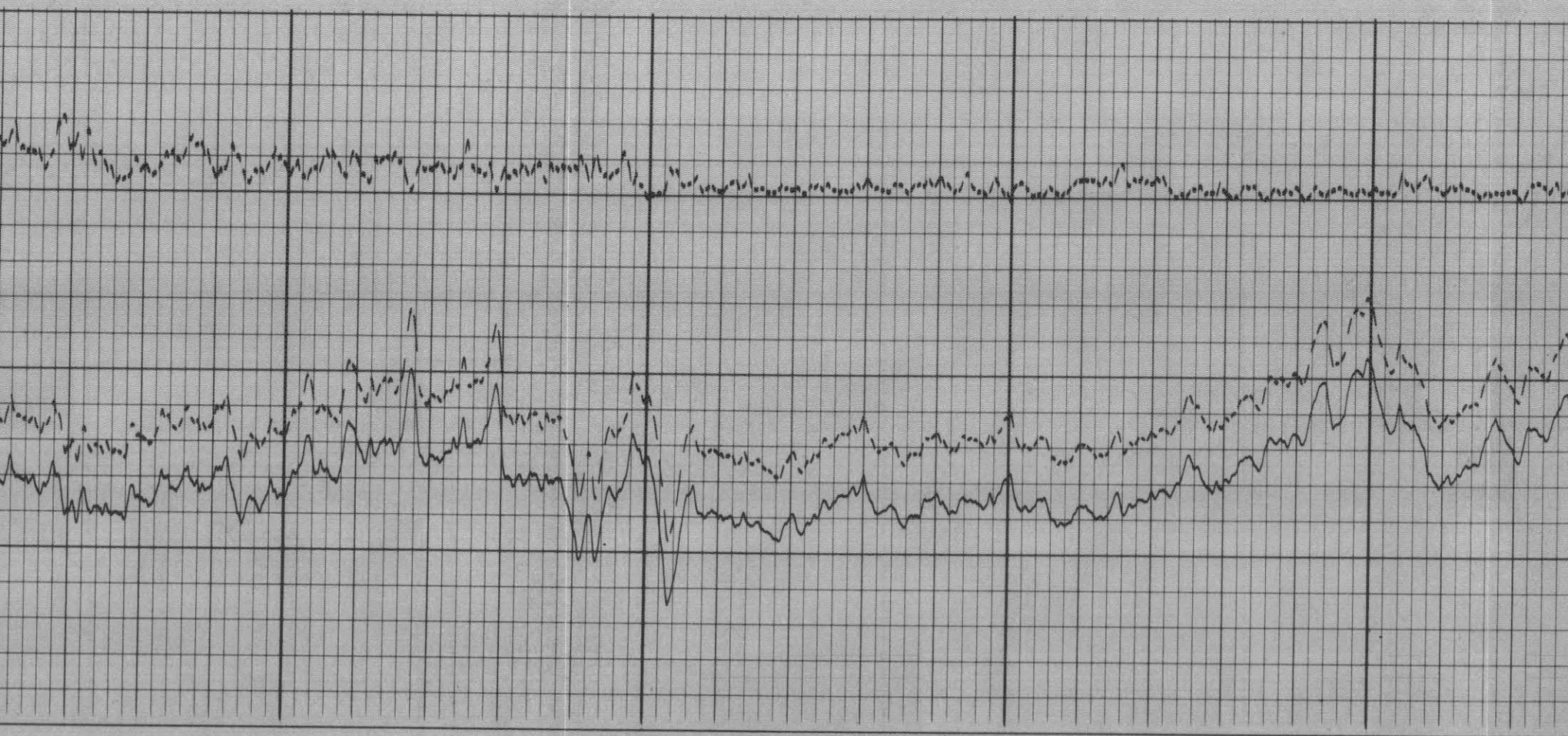
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.



0800
0700

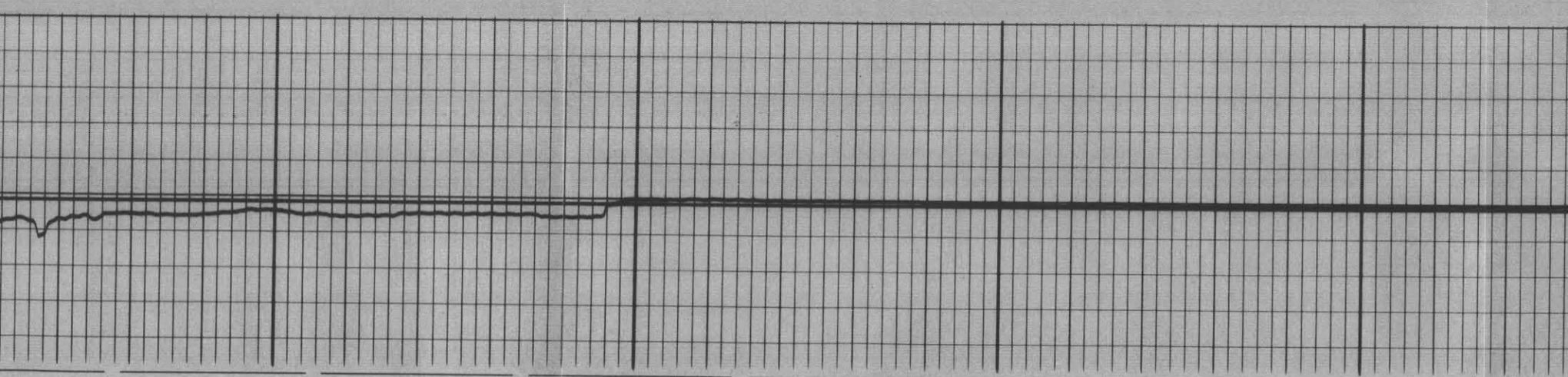
0900
1000

1100
1200
1300

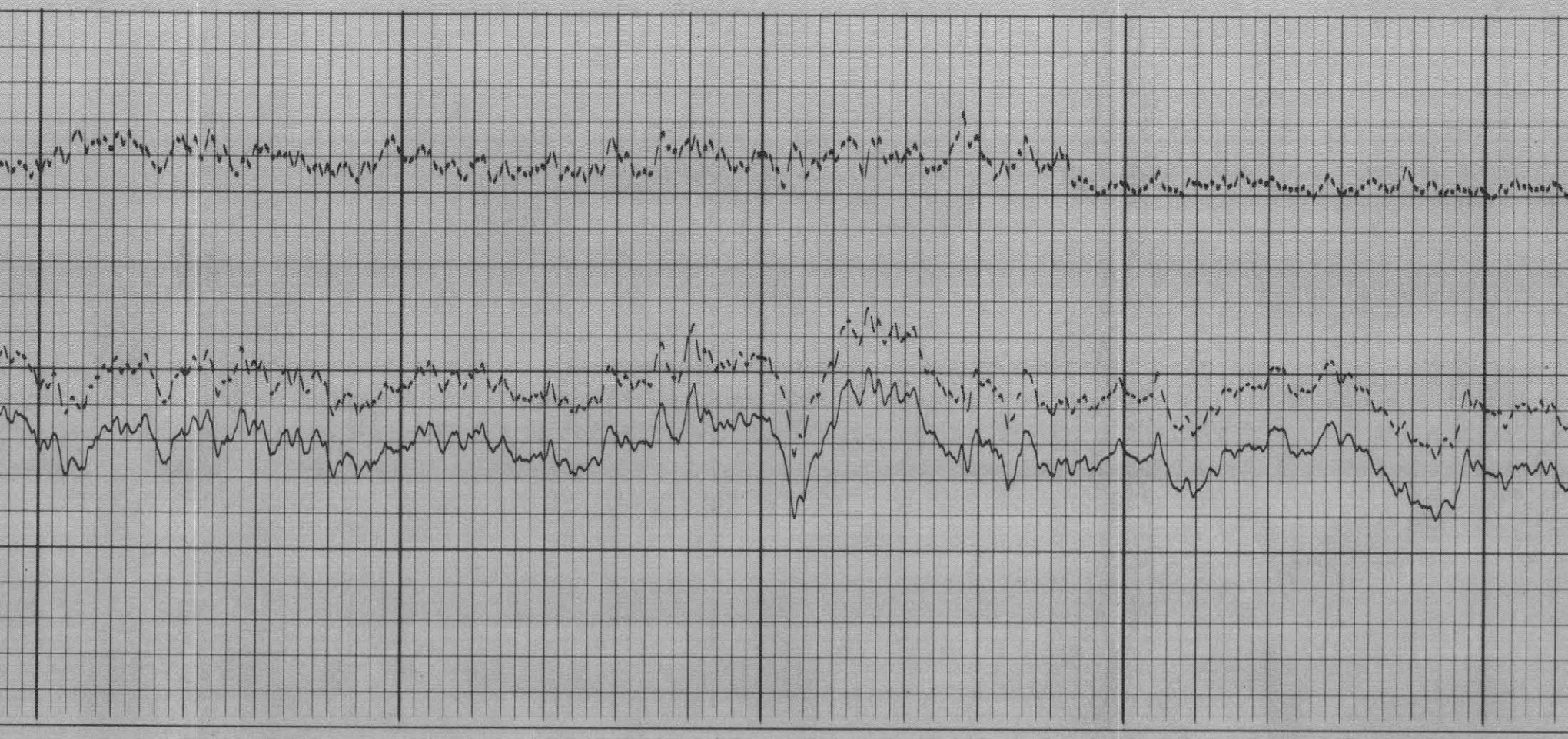


1400

1500

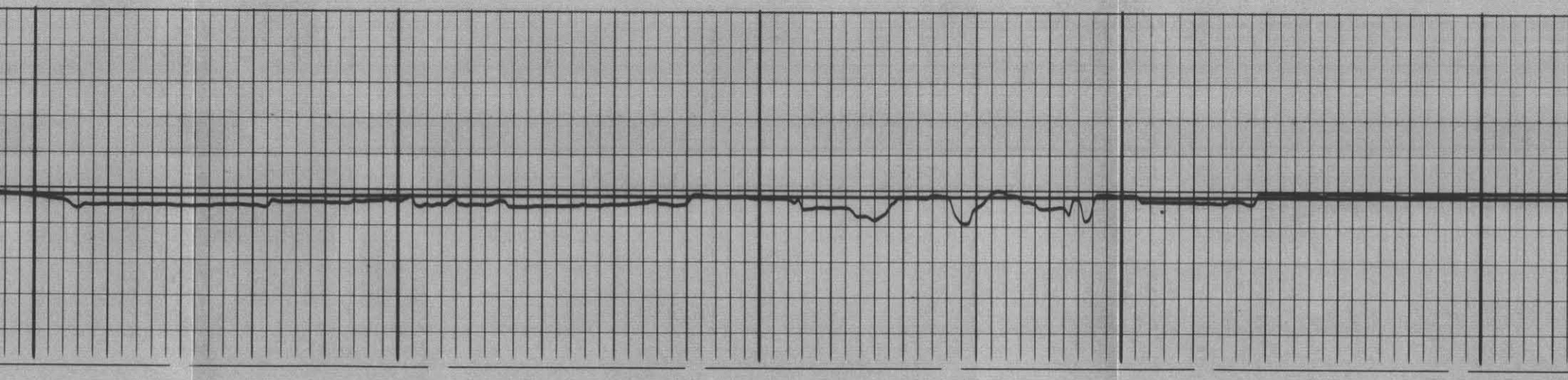


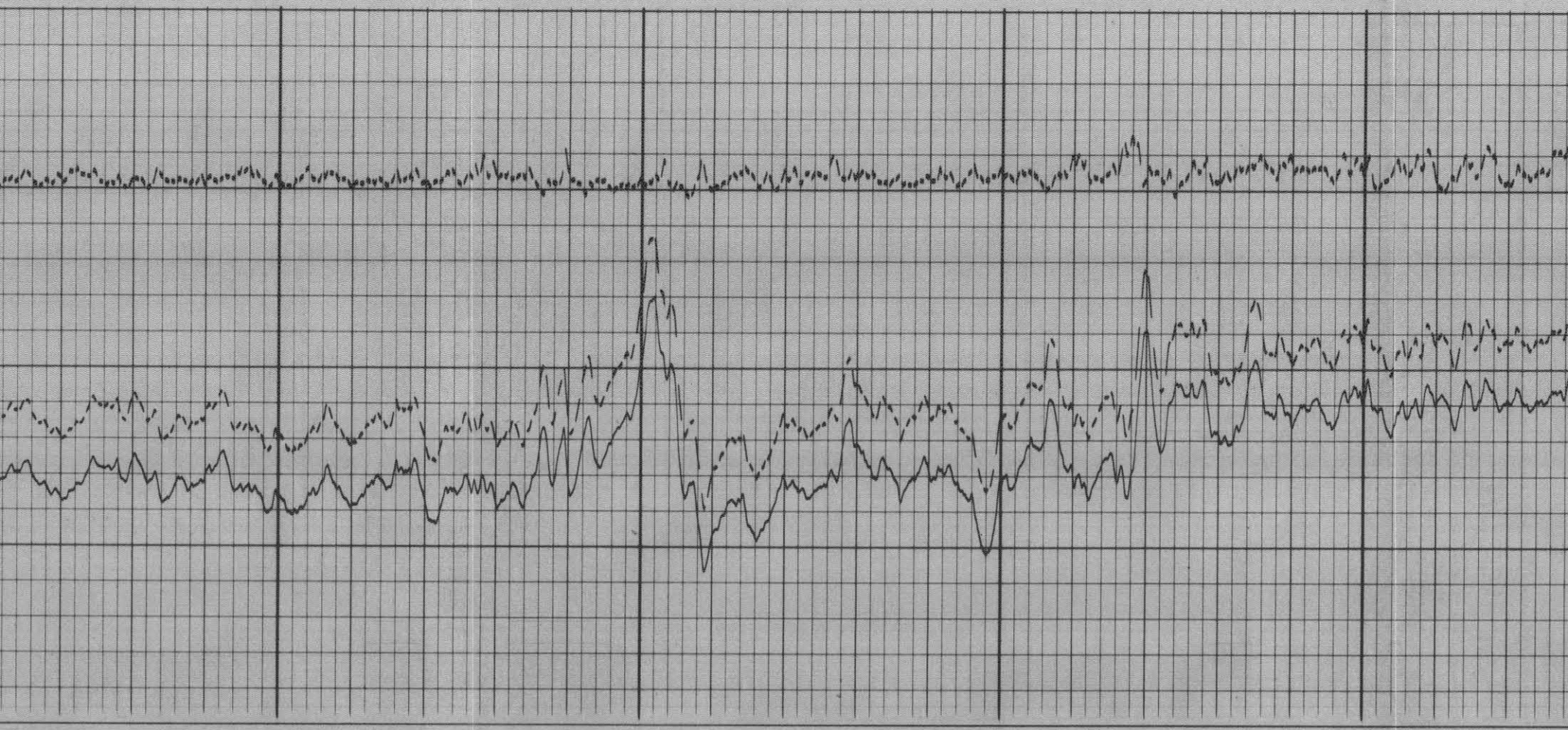
1600
1700



1800

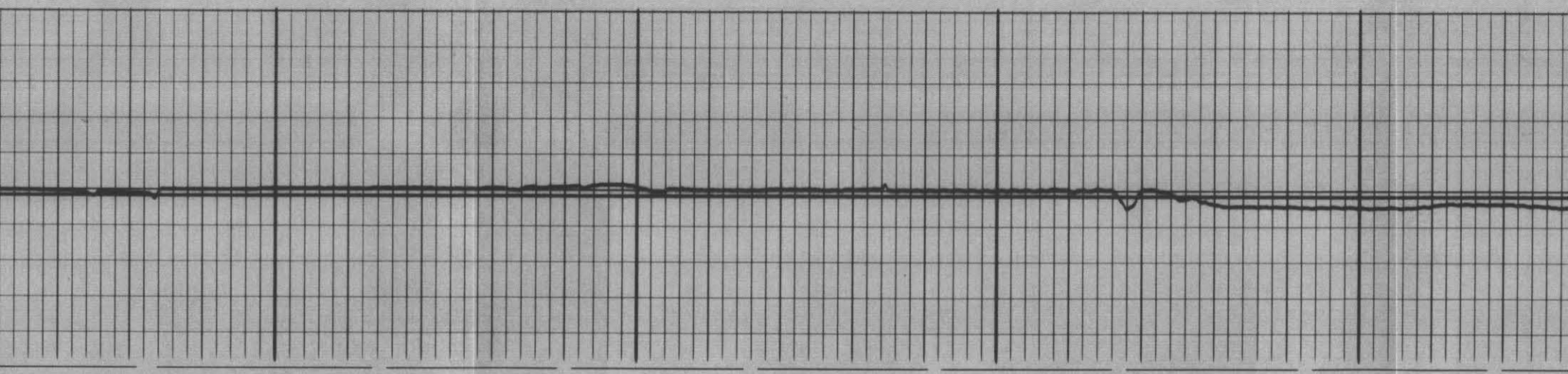
1900

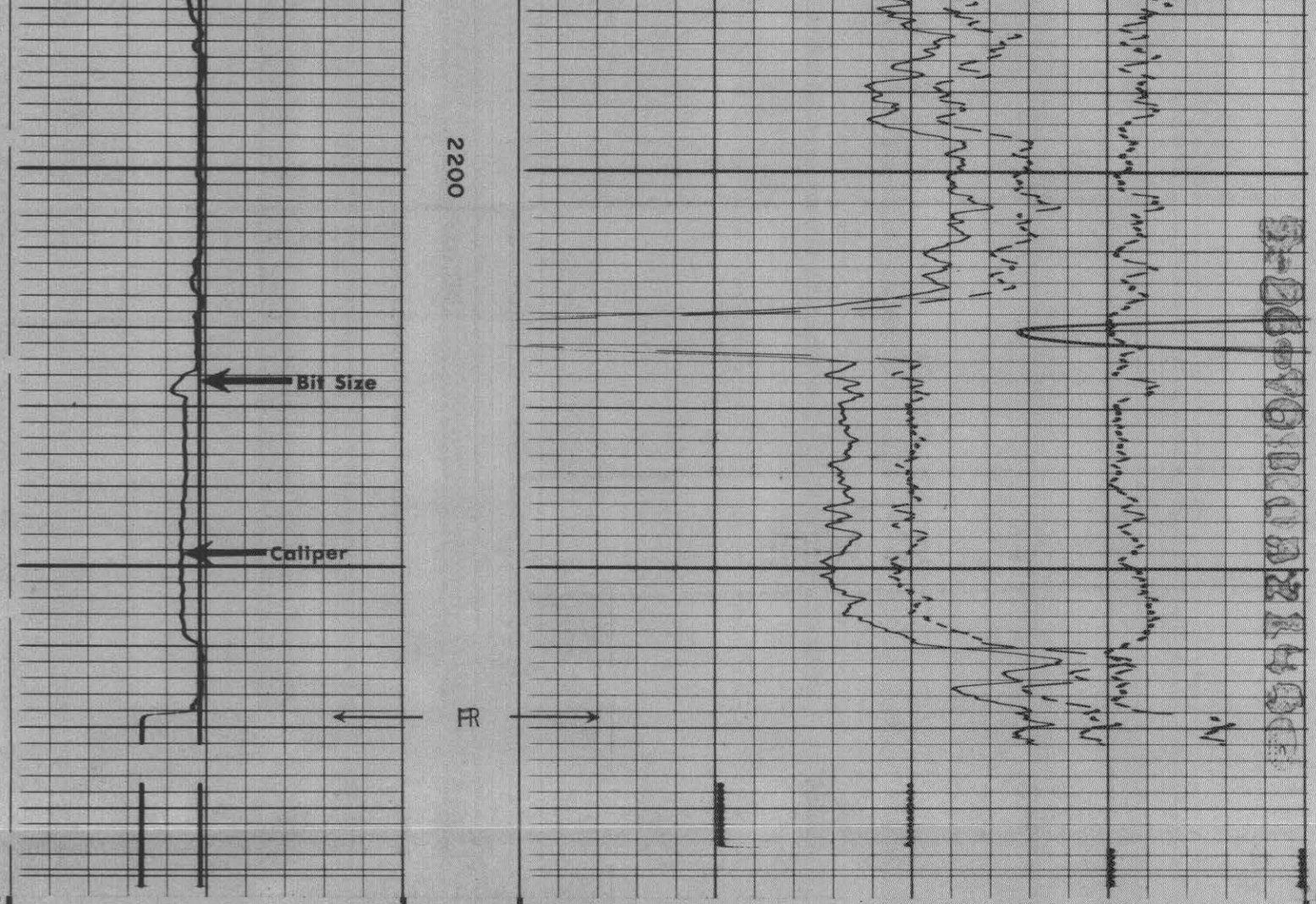




2000

2100





COMPANY THE WASHINGTON WATER POWER COMPANY

WELL STORAGE UNIT 48

FIELD JACKSON PRAIRIE

COUNTY LEWIS STATE WASHINGTON

Rm 3.98 @ 57 °F

BHT 79 °F

SCHL. FR 2269

SCHL. TD 2270

DRLR TD 2272

Elev:

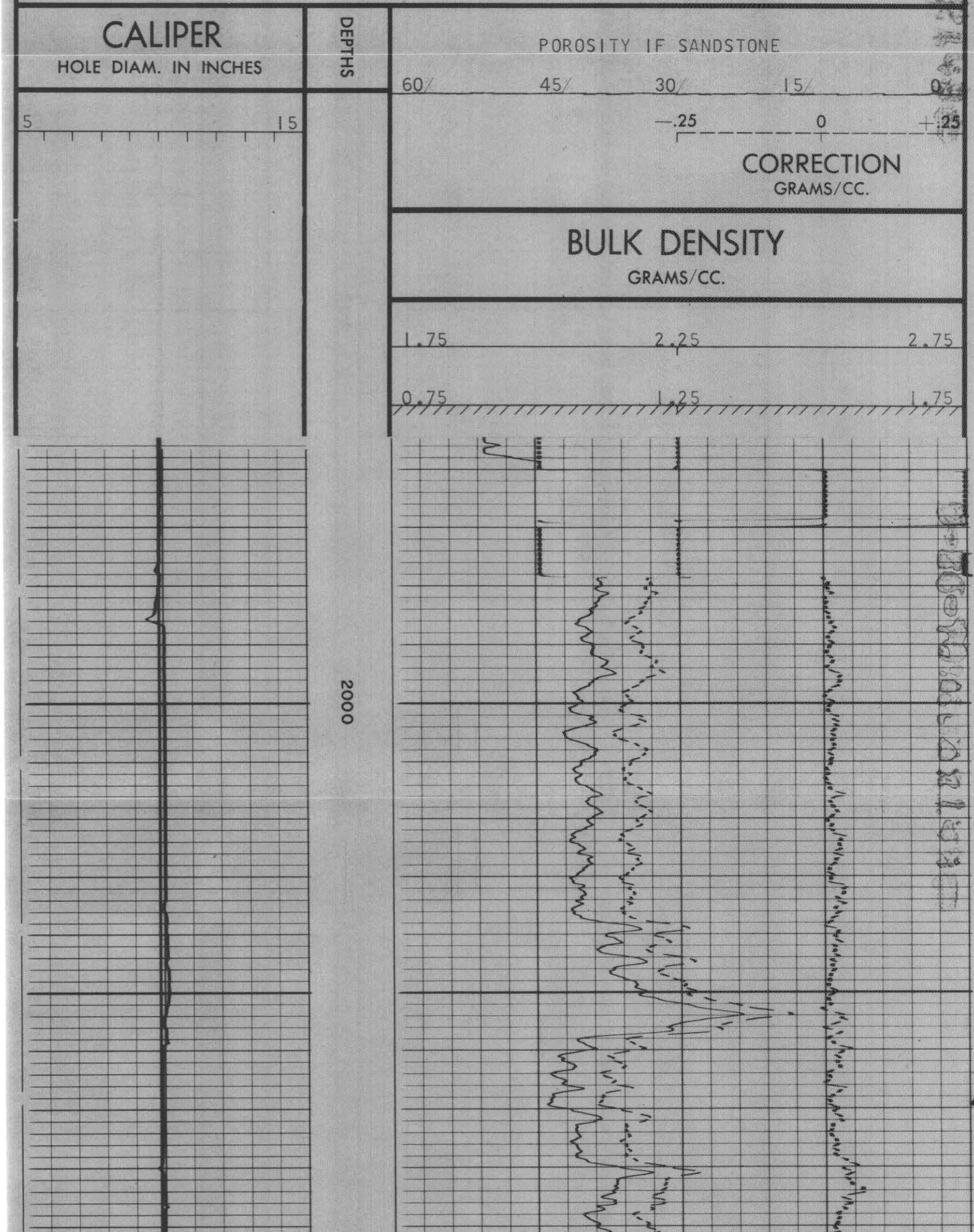
KB 509

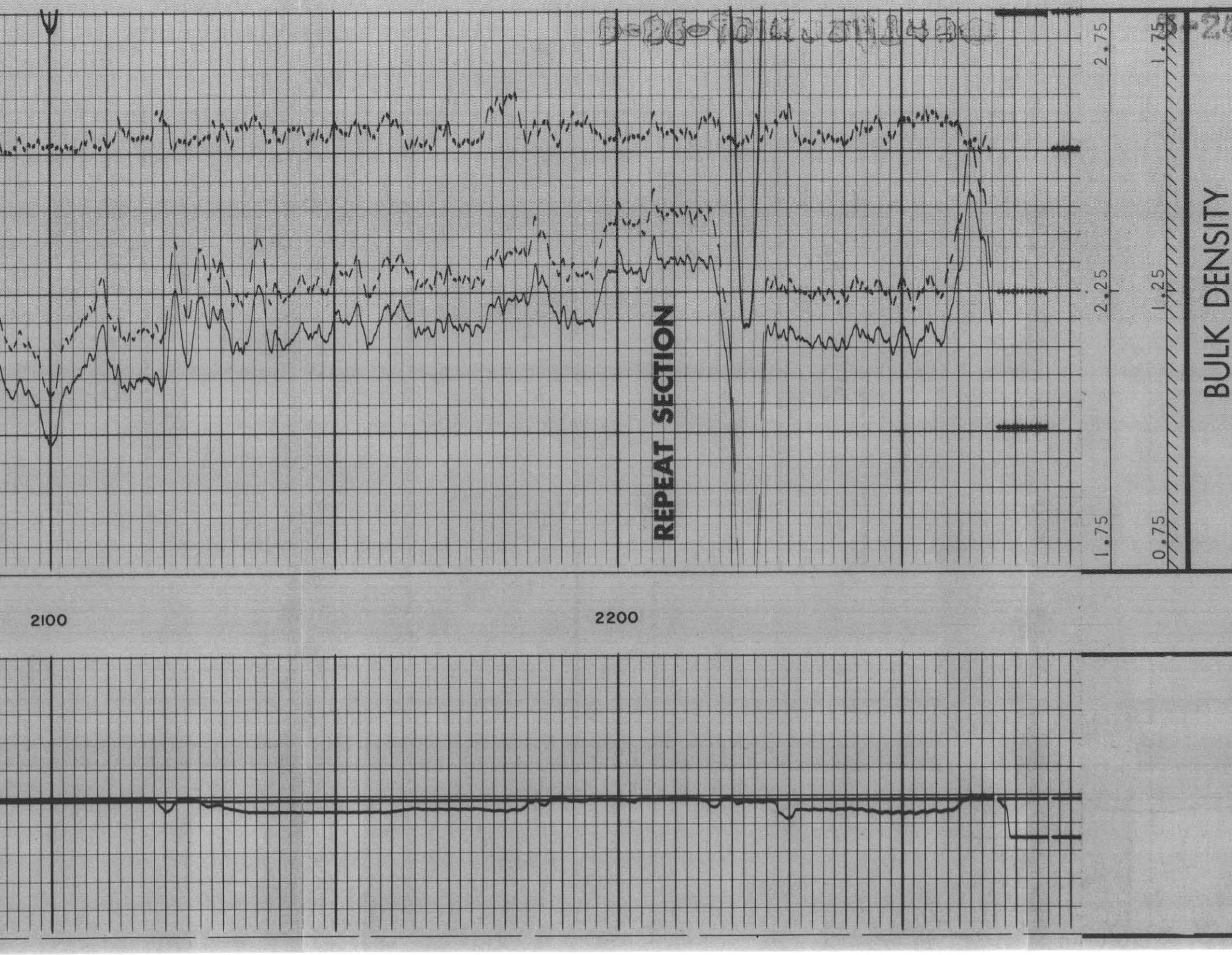
DF

GL 498

REPEAT SECTION

REPEAT SECTION




2.75
2.25
1.75
1.75
1.25
0.75
BULK DENSITY
REPEAT SECTION
2100
2200

GRAMS/CC.

5 15

—.25 0 +.25

CORRECTION
GRAMS/CC.

60% 45% 30% 15% 0%

CALIPER
HOLE DIAM. IN INCHES

DEPTHS

POROSITY IF SANDSTONE

COMPANY THE WASHINGTON WATER POWER COMPANY

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