

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>HESS OIL COMPANY</u>		ELEVATIONS
LEASE <u>ANGELA #1</u>		KB <u>2420'</u>
FIELD <u>- WILDCAT -</u>		DF <u>2418'</u>
LOCATION <u>700' FNL, 2035' FEL</u>		GL <u>2415'</u>
SEC <u>25</u> TWSP <u>23 S</u> RGE <u>24 W</u>		Measurements Are All From <u>KB</u>
COUNTY <u>HODGEMAN</u> STATE <u>KANSAS</u>		
CONTRACTOR <u>MALLARD J.V.</u>		CASING
SPUD <u>3-31-11</u> COMP <u>4-8-11</u>		SURFACE <u>8-5/8 at 233'</u>
RTD <u>4706'</u> LTD <u>none</u>		PRODUCTION <u>none</u>
MUD UP <u>3750'</u> TYPE MUD <u>CHEMICAL</u>		ELECTRICAL SURVEYS
		<u>none</u>
SAMPLES SAVED FROM <u>4400'</u> TO <u>TD</u>		
DRILLING TIME KEPT FROM <u>3800'</u> TO <u>TD</u>		
SAMPLES EXAMINED FROM <u>4400'</u> TO <u>TD</u>		
GEOLOGICAL SUPERVISION FROM <u>3800'</u> TO <u>TD</u>		
GEOLOGIST ON WELL <u>JAMES C. HESS</u>		

FORMATION TOPS	LOG	SAMPLES				
ANHYDRITE		1578 (+842)	24 W			
BASE ANHYDRITE		1603 (+817)			+	
HEEBNER		3954 (-1534)				
LANSING		4003 (-1583)				
STARK SHALE		4306 (-1886)				
BASE KANSAS CITY		4418 (-1998)				
PAWNEE		4468 (-2048)				
FORT SCOTT		4535 (-2115)				
CHEROKEE SHALE		4566 (-2146)				
MISSISSIPPI		4697 (-2277)				
RTD		4706 (-2286)				

23
S

REMARKS Pipe strap 2⁰³ 1049 to board at 4669'

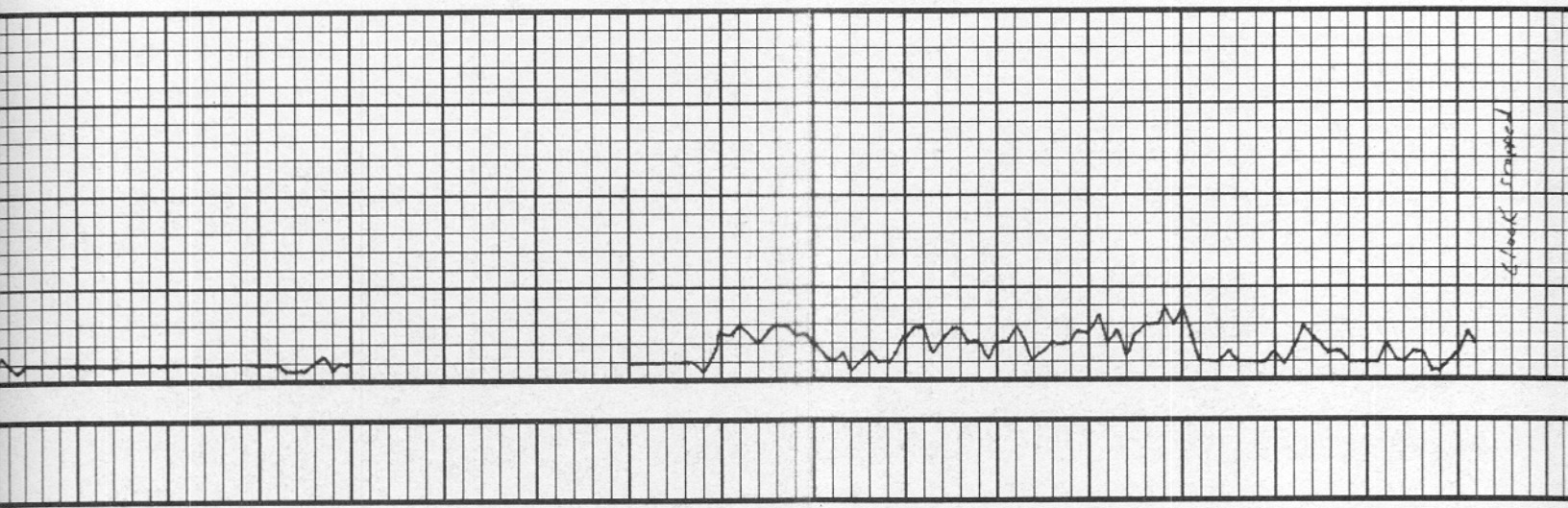
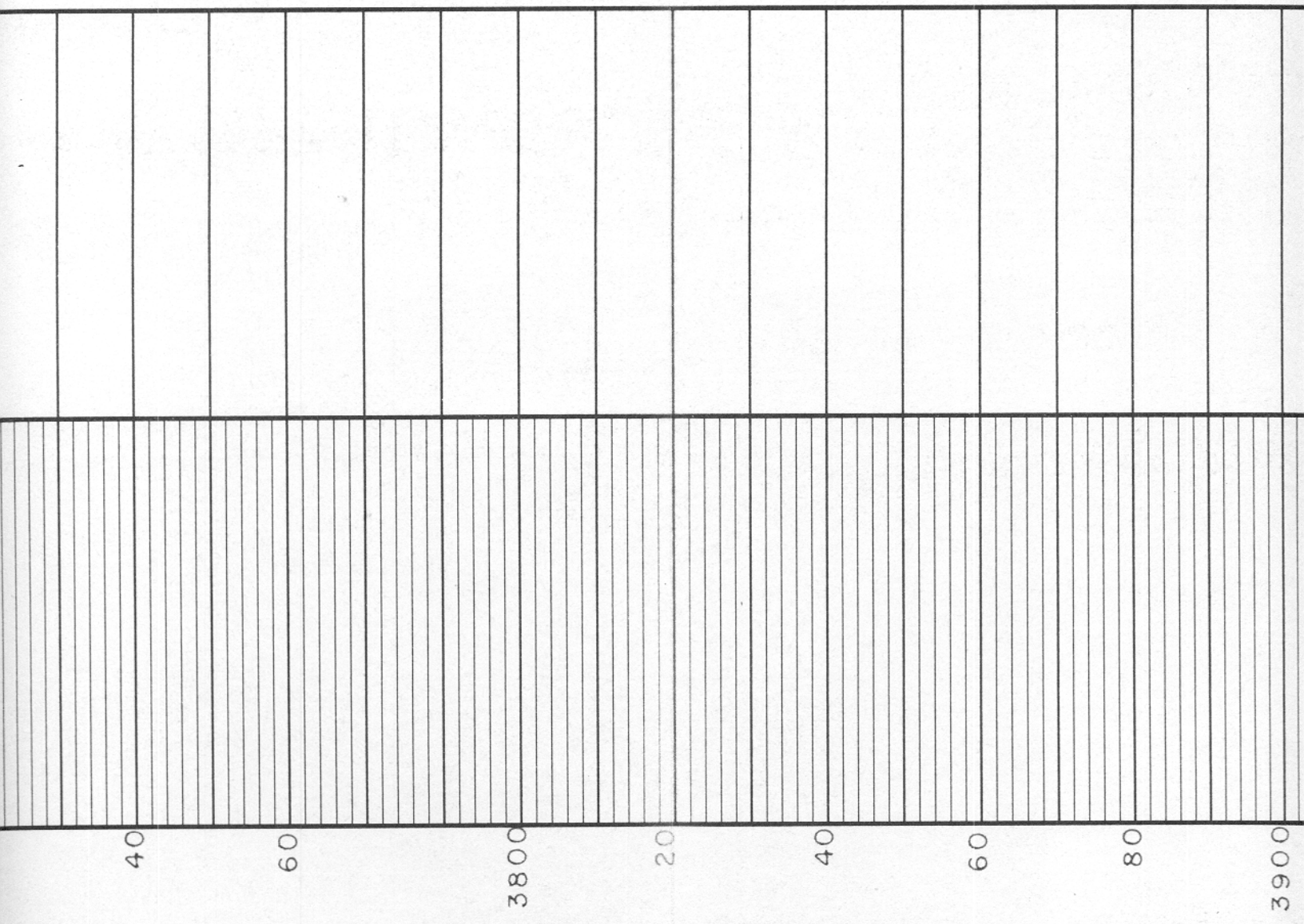
LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

SCALE " = 100'

LOG 7703

Lithology	Drilling time in minutes	DEPTH	Sample Description	Remarks, drill stem tests, etc.
	0 5 10 15 20	1560		
		80		ANHYDRITE 1578 (+842)
		1600		BASE ANHYDRITE 1603 (+817)
		20		



3900

20

40

60

80

4000

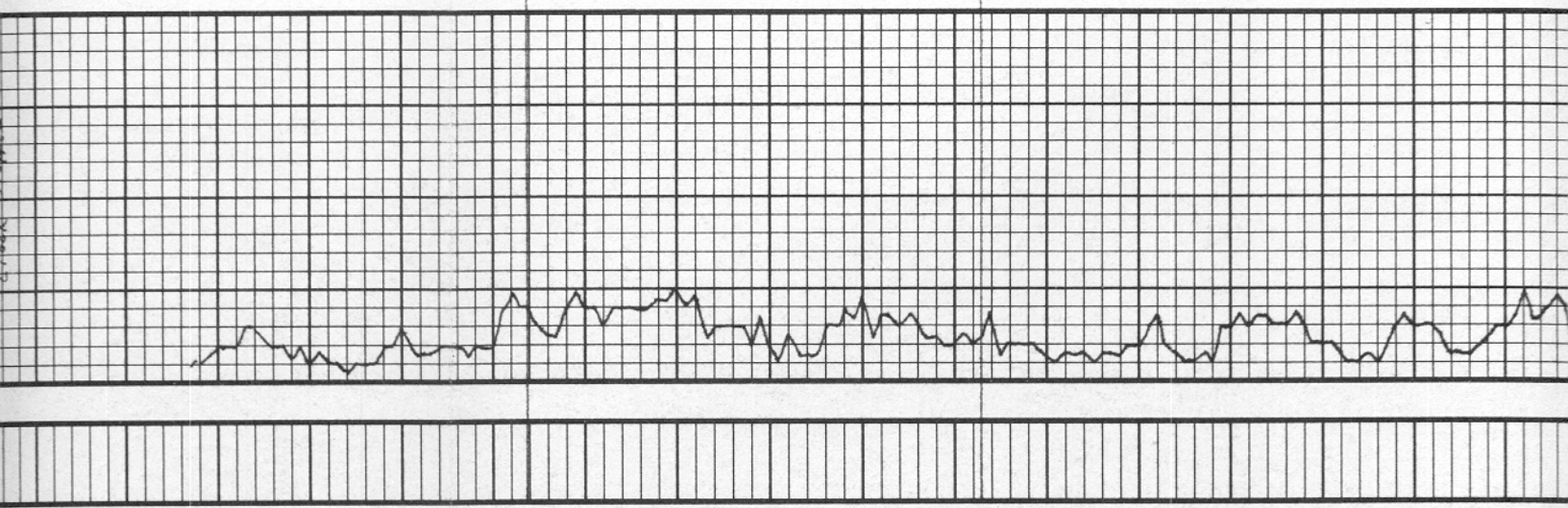
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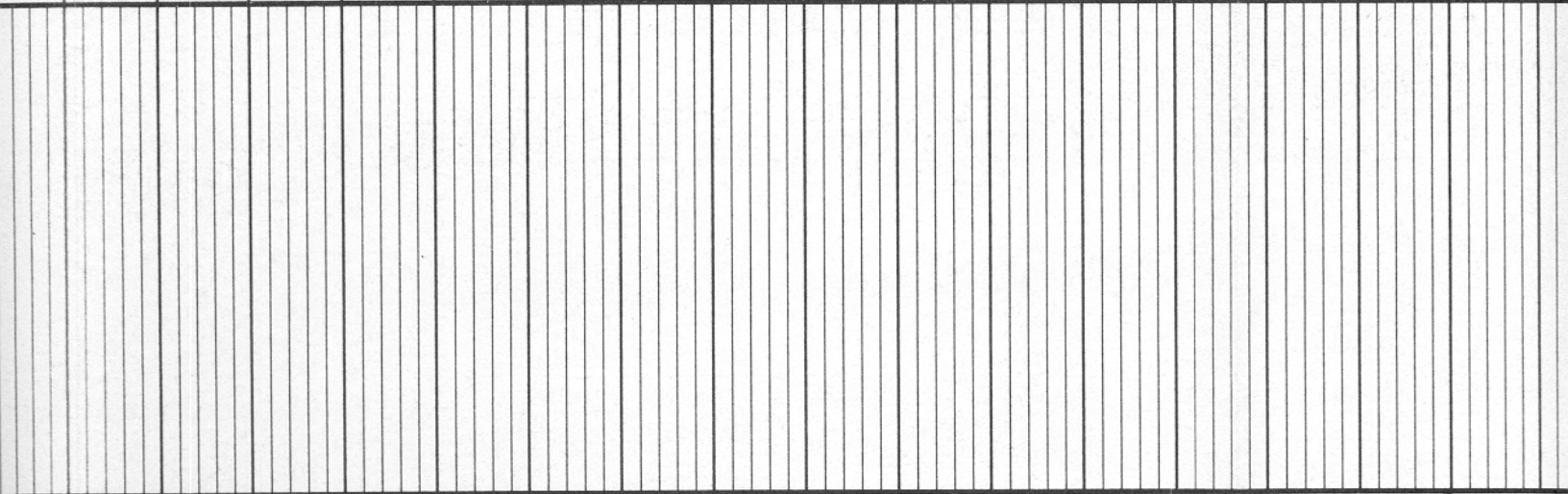
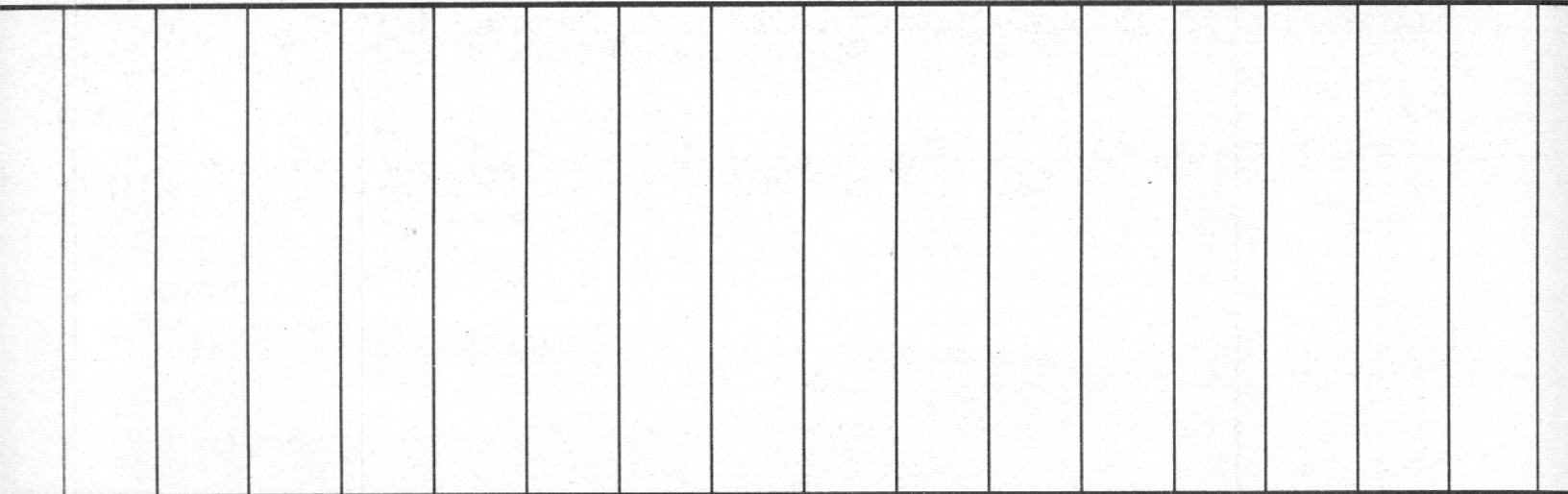
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HEEBNER 3954 (-1534)

LANSING 4003 (-1583)





80

4100

20

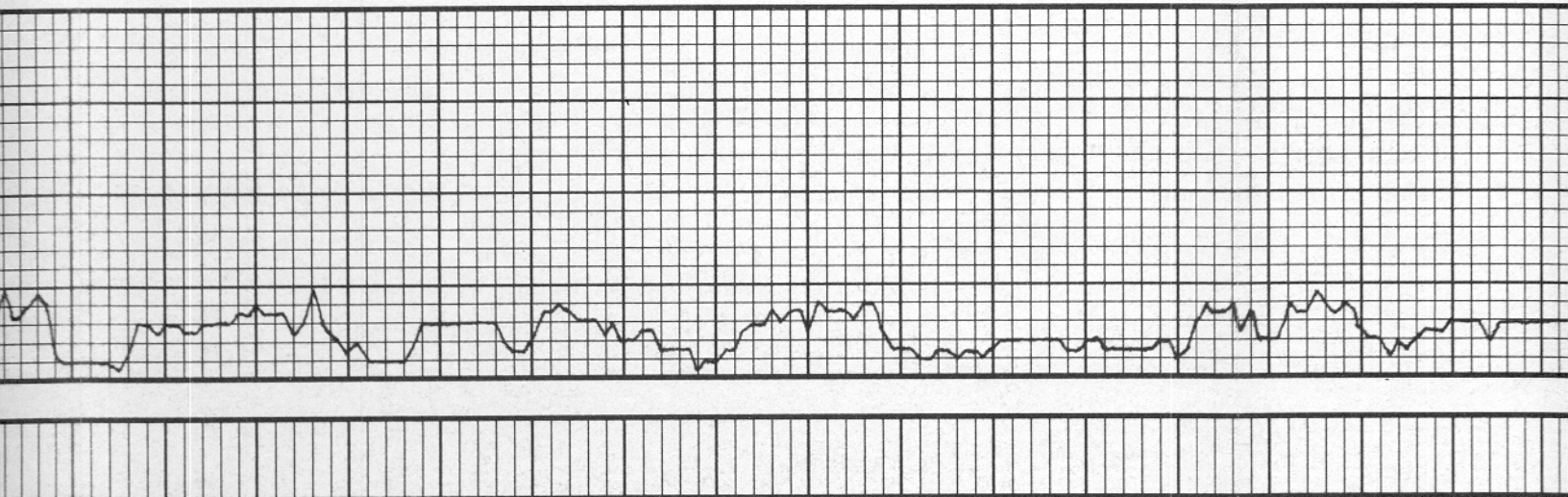
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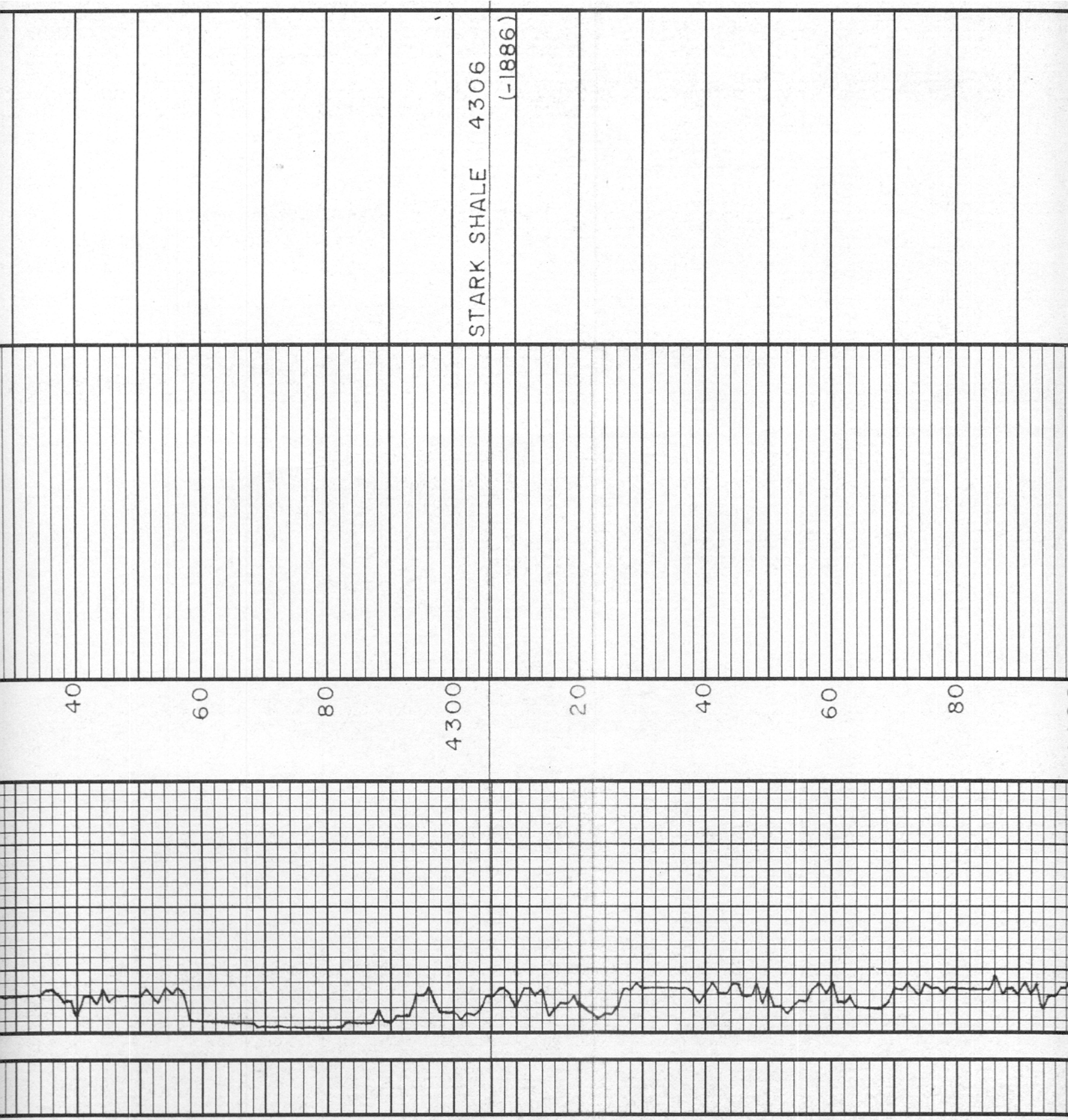
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80

4200

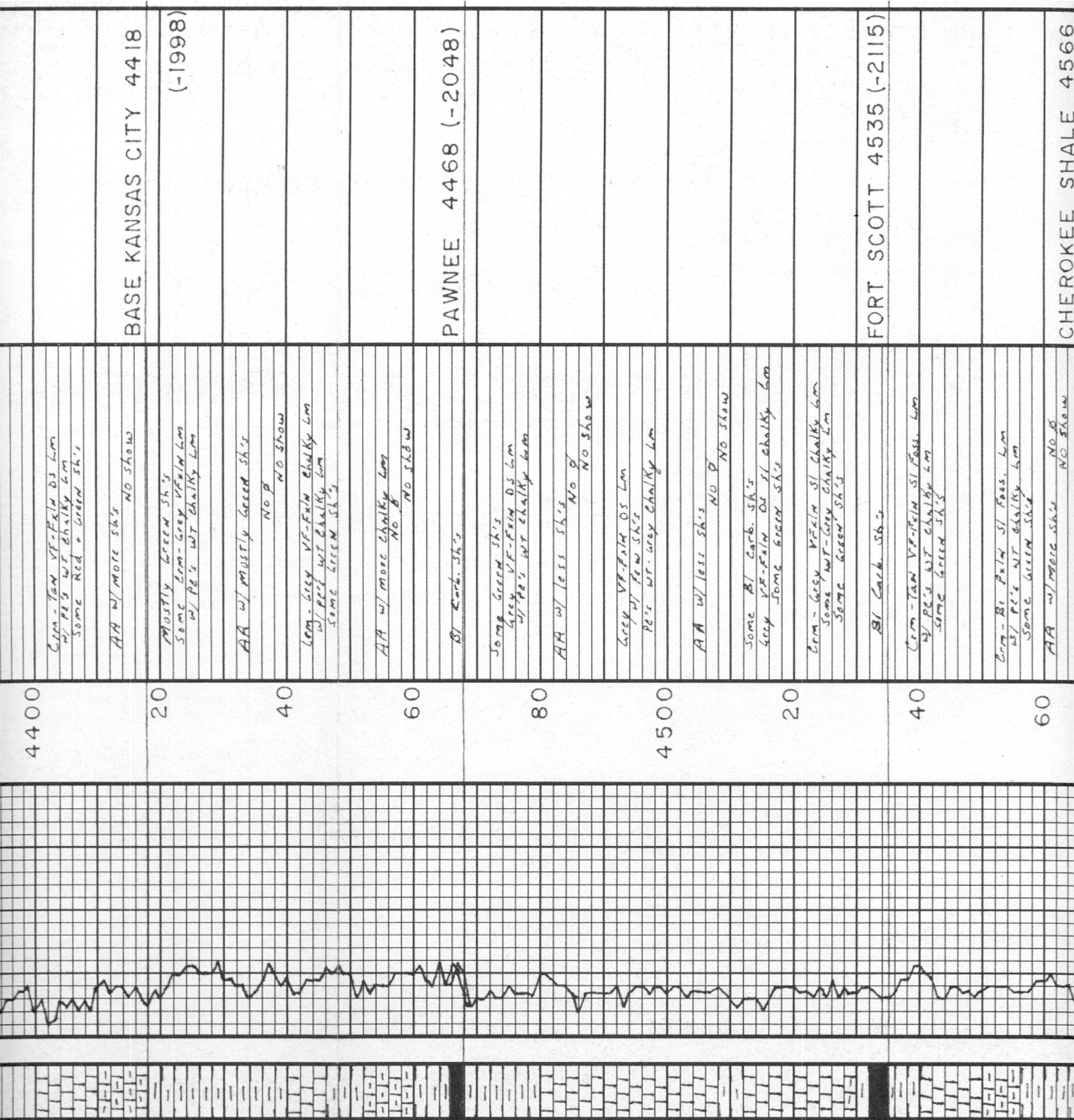
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STARK SHALE 4306

(-1886)



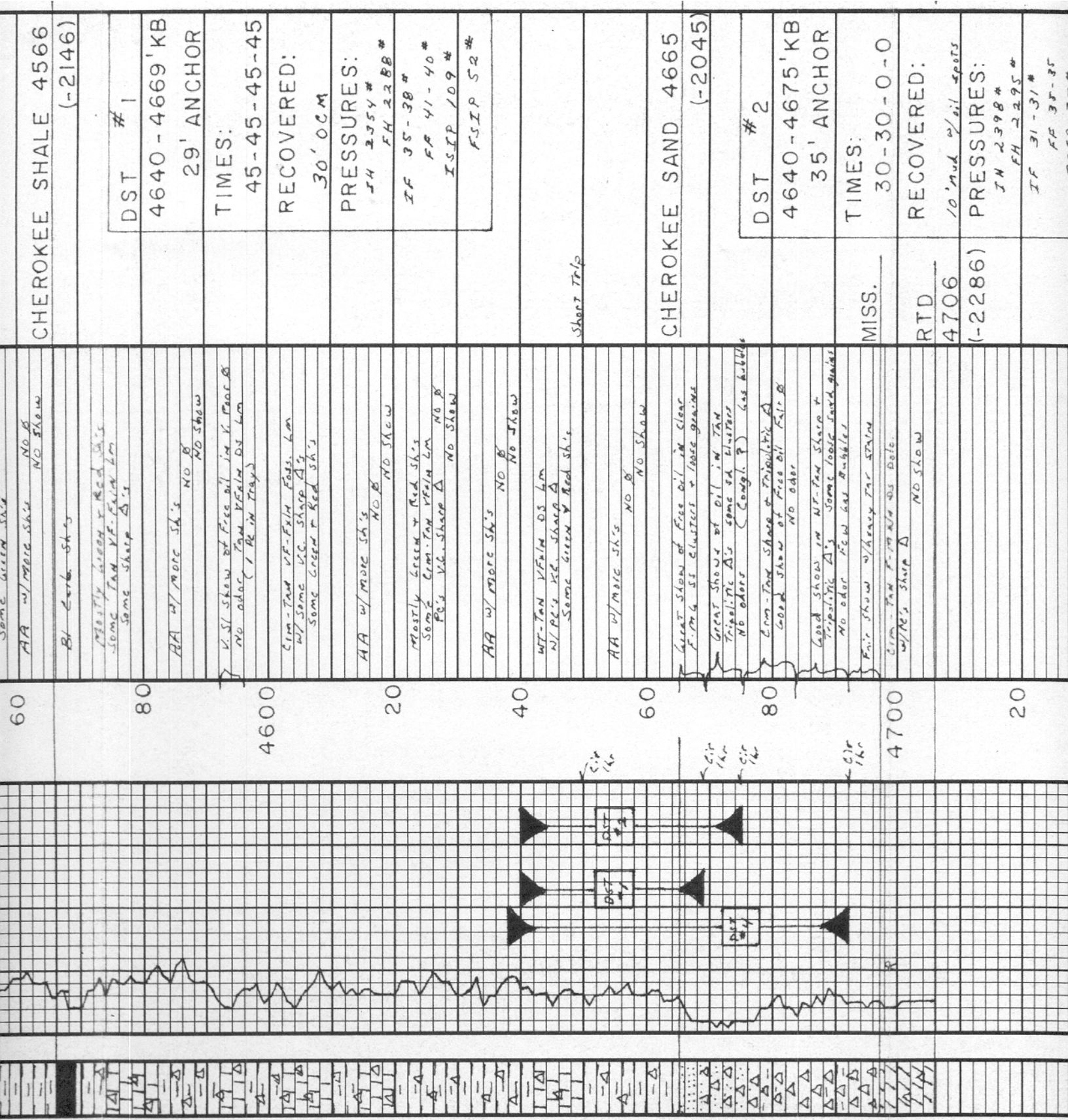
BASE KANSAS CITY 4418

(-1998)

PAWNEE 4468 (-2048)

FORT SCOTT 4535 (-2115)

CHEROKEE SHALE 4566



CHEROKEE SHALE 4566
(-2146)

DST #1
4640-4669' KB
29' ANCHOR
TIMES:
45-45-45-45
RECOVERED:
30' 00M
PRESSURES:
FH 2354 #
FH 2288 #
ZF 35-38 #
FR 41-40 #
ISIP 109 #
FSIP 52 #

CHEROKEE SAND 4665
(-2045)

DST #2
4640-4675' KB
35' ANCHOR
TIMES:
30-30-0-0
RECOVERED:
10' mud w/oil spots
PRESSURES:
IN 2398 #
FH 2295 #
IF 31-31 #
FR 38-35 #

Short Trip

MISS.

RTD
4706
(-2286)

IN 2398 #
FH 2295 #
IF 31-31 #
FF 38-35
ISIP 75 #
FSIP --

DST # 3
4660-4692' KB
32' ANCHOR
MISS RUN

DST # 4
4638-4692' KB
54' ANCHOR

TIMES:
45-45-45-45

RECOVERED:
20' Mud

PRESSURES:
IH 2501 #
FN 2383 #

IF 30-42 #
FF 36-56 #
ISIP 137 #

FSIP 92 #