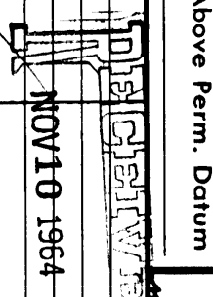


**HUMBERGER INDUCTION - ELECTRICAL LOG**  
 HUMBERGER WELL SURVEYING CORPORATION  
 Houston, Texas

COUNTY GARFIELD, COLO.  
 WELL DIVIDE CREEK UNIT # 12  
 COMPANY SUN OIL COMPANY

COGCC Document Number 2056079  
 Date 04-18-2016  
 SUN OIL COMPANY  
 OYSTOSZOG  
 DIVIDE CREEK UNIT # 12  
 DIVIDE CREEK UNIT  
 GARFIELD STATE COLORADO  
 SE - NW 6  
 Twp. 9S Rge. 91W  
 Other Services:  
 A-SL, CDM  
 S-GR/C

Permanent Datum: _____	G.L. _____	Elev. <u>8943</u>
Log Measured From _____	K.B. _____	12.4 Ft. Above Perm. Datum
Drilling Measured From _____	K.B. _____	_____
Date <u>11-4-64</u>	Run No. <u>ONE</u>	
Depth—Driller <u>5360</u>	Depth—Logger <u>5366</u>	
Btm. Log Interval <u>5365</u>	Top Log Interval <u>307</u>	
Casing—Driller <u>9 5/8 @ 306</u>	Casing—Logger <u>307</u>	
Bit Size <u>7 7/8"</u>	Type Fluid in Hole <u>CHEMICAL GEL - LCM</u>	
Dens. <u>9.1</u>	Visc. <u>68</u>	
pH <u>7.2</u>	Fluid Loss <u>4.6</u>	ml
Source of Sample <u>FLOW LINE</u>		
R <sub>m</sub> @ Meas. Temp. <u>3.6 @ 68 °F</u>		ml
R <sub>ml</sub> @ Meas. Temp. <u>3.25 @ 68 °F</u>		
R <sub>mc</sub> @ Meas. Temp. <u>- @ - °F</u>		
Source: R <sub>ml</sub> <u>PRESSCHART</u>		
R <sub>m</sub> @ BHT <u>1.7 @ 149 °F</u>		
Time Since Circ. <u>4 HOURS</u>		
Max. Rec. Temp. <u>147</u>		
Equip. Location <u>2598 G.J.</u>		
Recorded By <u>MONTGOMERY</u>		
Witnessed By <u>HEBERTSON</u>		



FOLD HERE

REMARKS				Scale Changes			
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole		
Changes in Mud Type or Additional Samples							
Type Fluid in Hole							
Dens.   Visc.							
ph   Fluid Loss ml							
Source of Sample							
R <sub>m</sub> @ Meas. Temp.	@ °F	@ °F	Run No.	Tool Type	Tool Position	Equipment Data Other	
R <sub>ml</sub> @ Meas. Temp.	@ °F	@ °F					
R <sub>mc</sub> @ Meas. Temp.	@ °F	@ °F					
Source: R <sub>ml</sub>   R <sub>mc</sub>							
R <sub>m</sub> @ BHT	@ °F	@ °F					
R <sub>ml</sub> @ BHT	1.5 @ 147 °F	@ °F					
R <sub>mc</sub> @ BHT	1.5 @ 147 °F	@ °F					

C.D.: USED S.O.: = 1 1/2"  
 Equip. Used: CART. No. F  
PANEL No. F 71  
SONDE No. M  
SBR 4

11-06-84 JNC 882

SPONTANEOUS-POTENTIAL millivolts  
 DEPTHS  
 CONDUCTIVITY millimhos/m =  $\frac{1000}{\text{cm}}$

10  
+  
-

6 - FF40  
INDUCTION

200

400

200

DIVIDE CREEK FIELD TYPE LOG 045-05208

RESISTIVITY  
-ohms. m<sup>2</sup>/m

A - 16" - M  
SHORT NORMAL

100

1000

INDUCTION

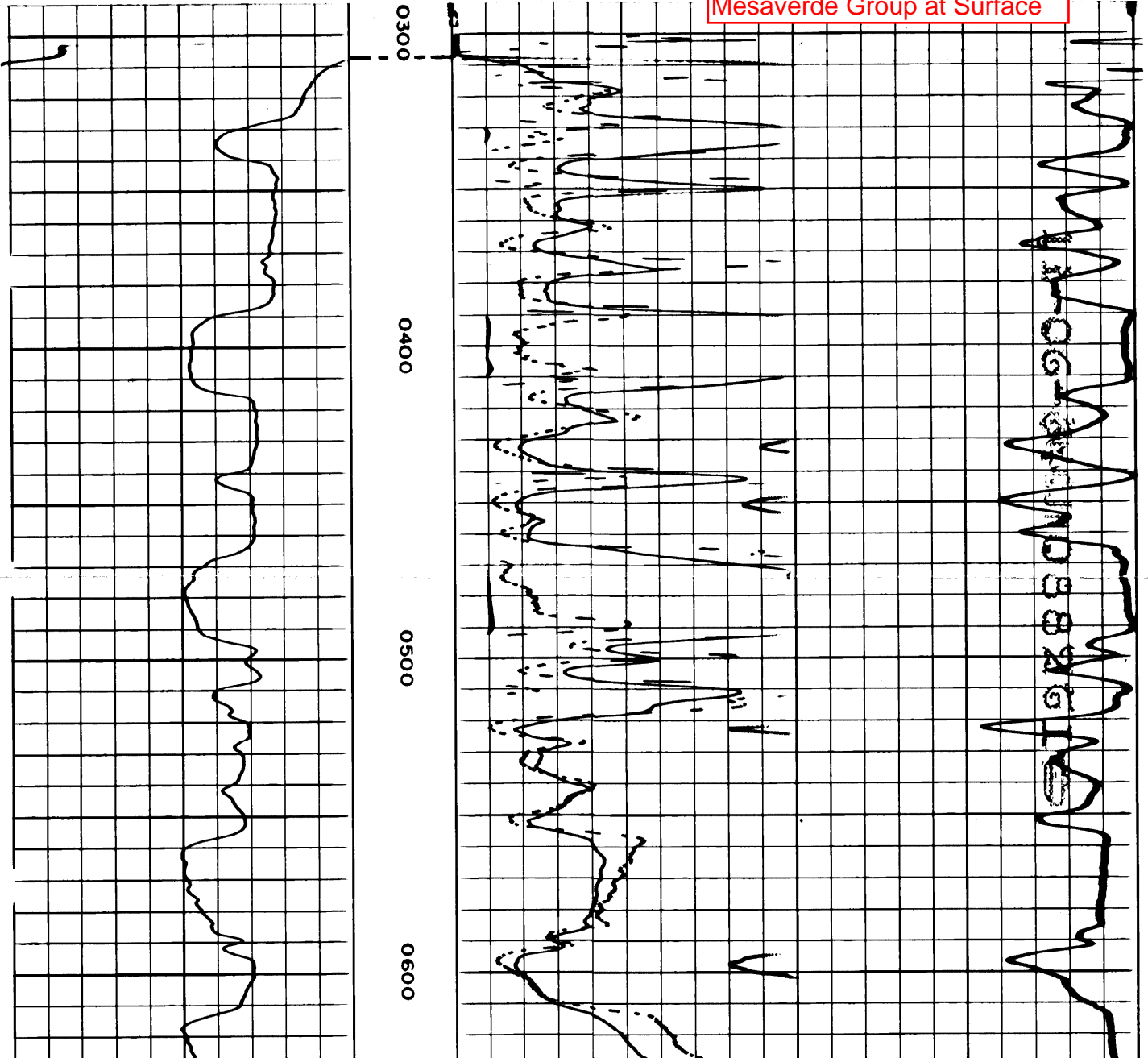
100

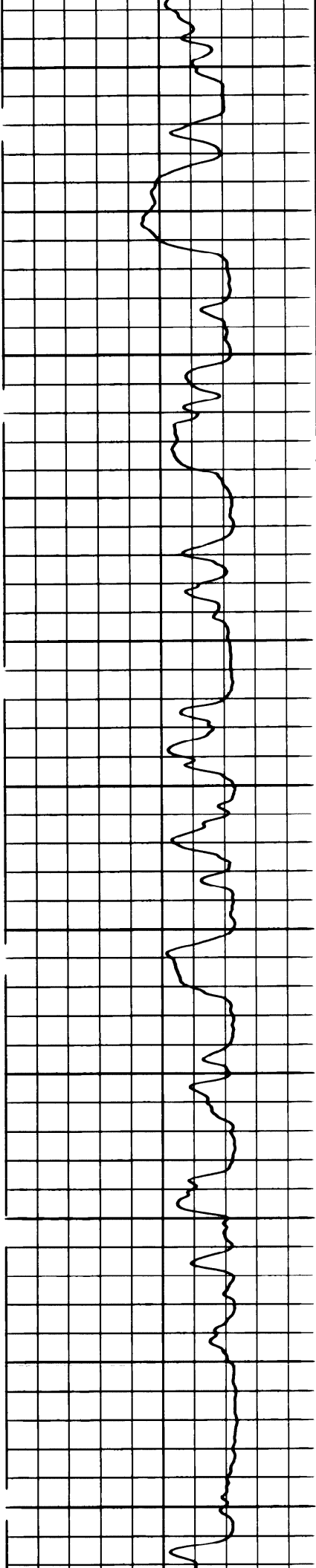
1000

AMP. NORMAL

20

Mesaverde Group at Surface





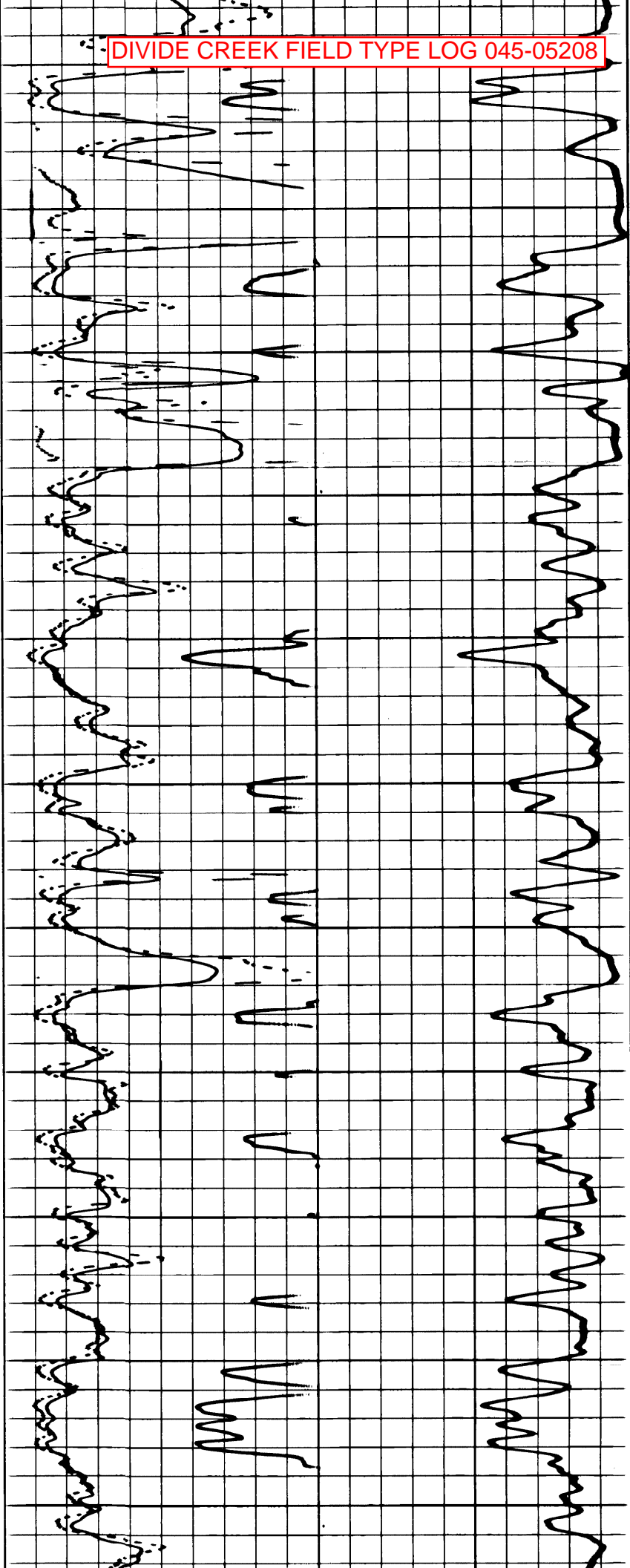
0700

0800

0900

1000

1100



1200

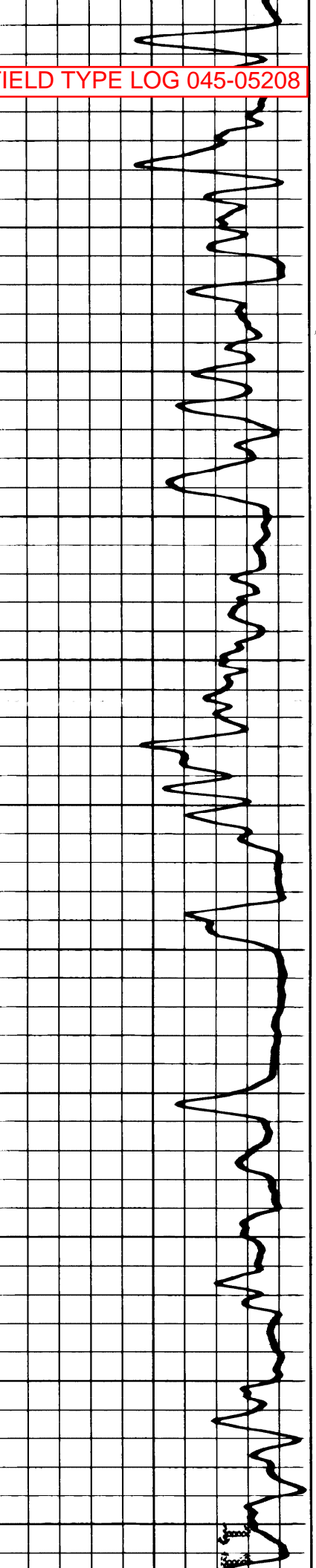
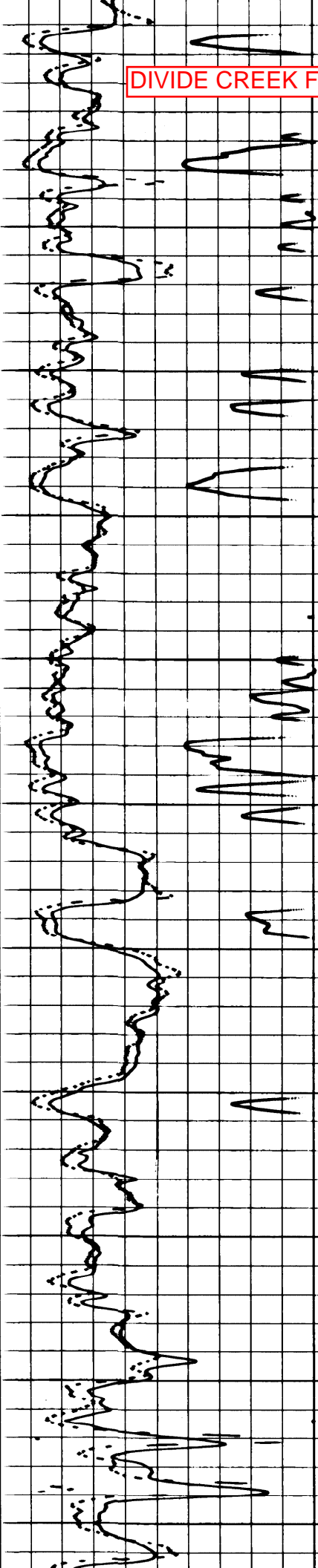
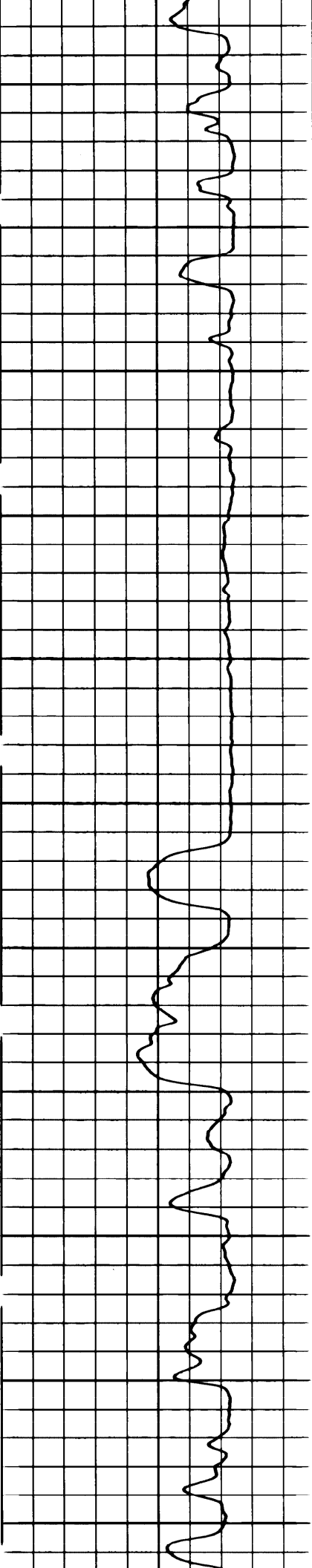
1300

1400

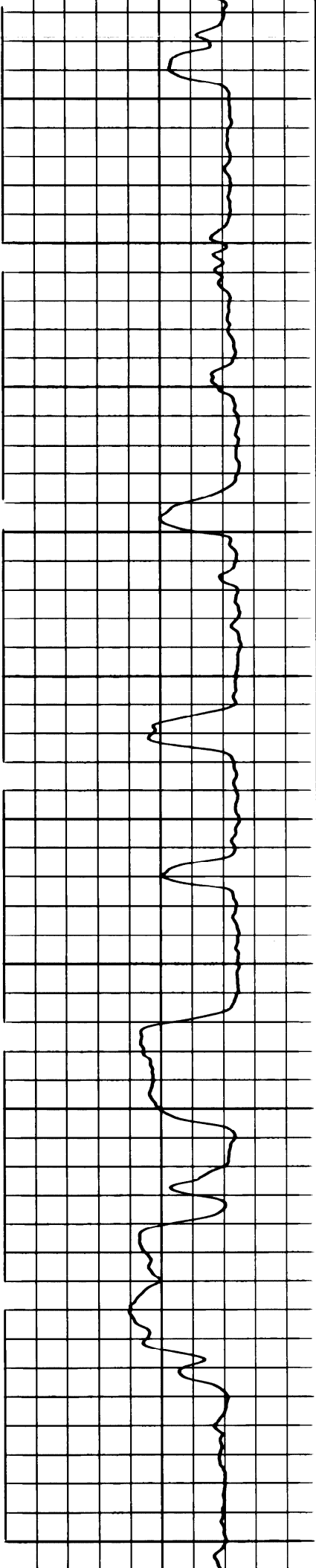
1500

1600

1700



DIVIDE CREEK FIELD TYPE LOG 045-05208



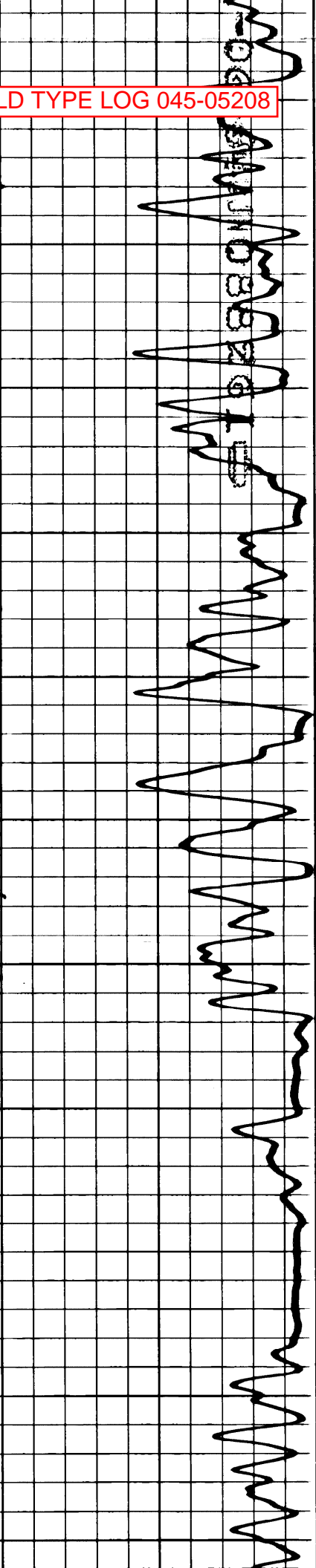
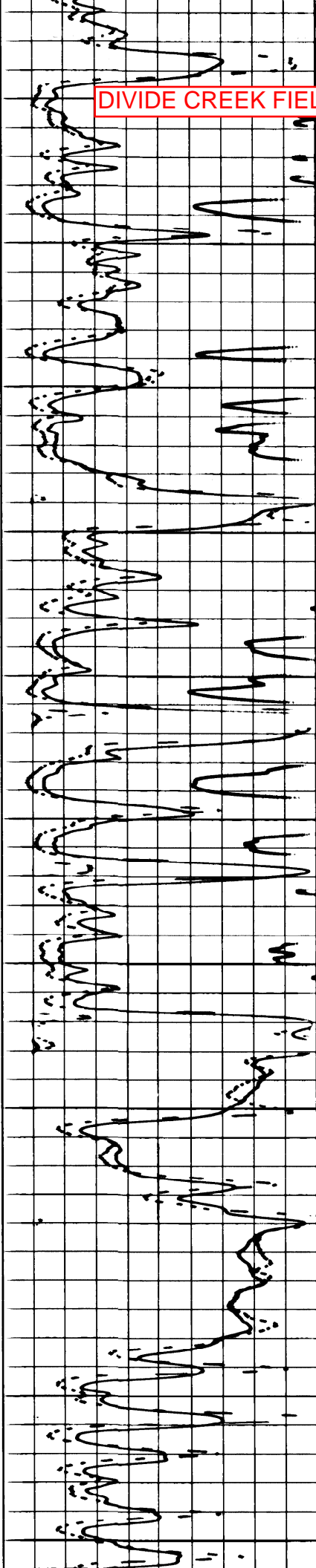
1800

1900

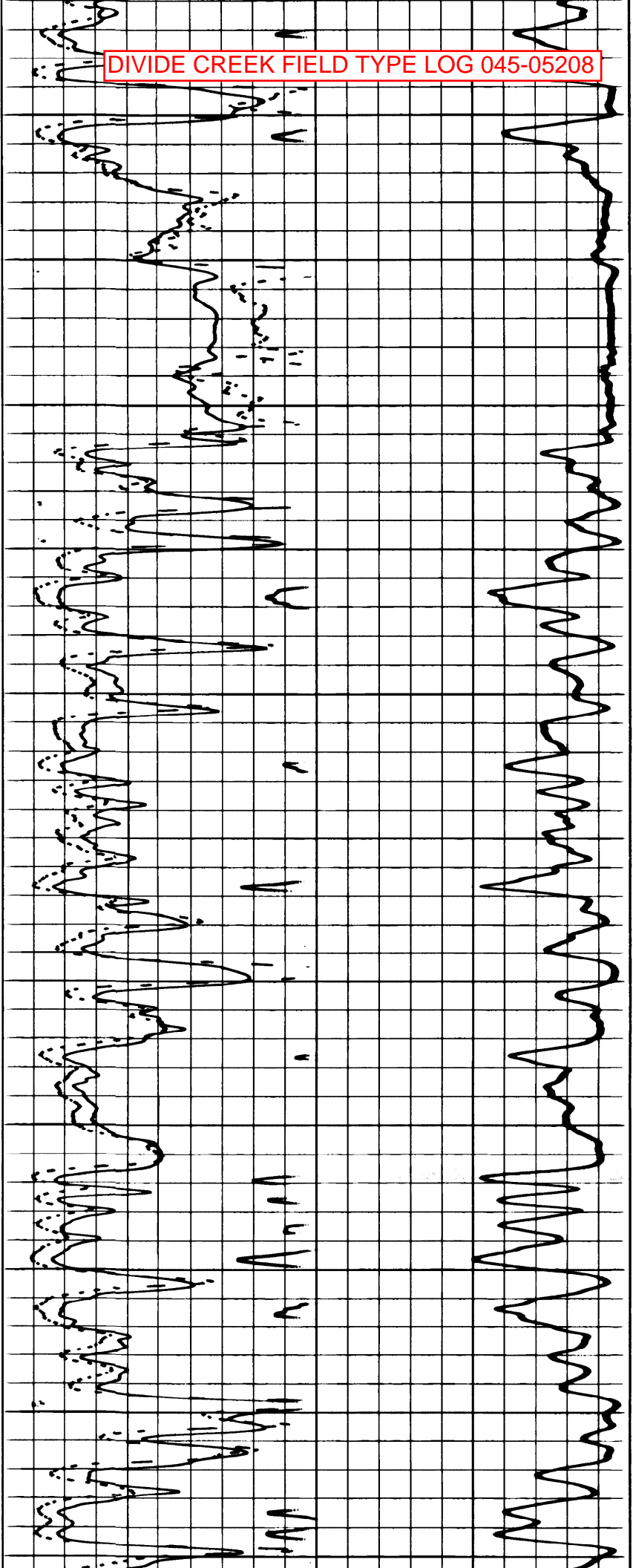
2000

2100

2200



DIVIDE CREEK FIELD TYPE LOG 045-05208



2300

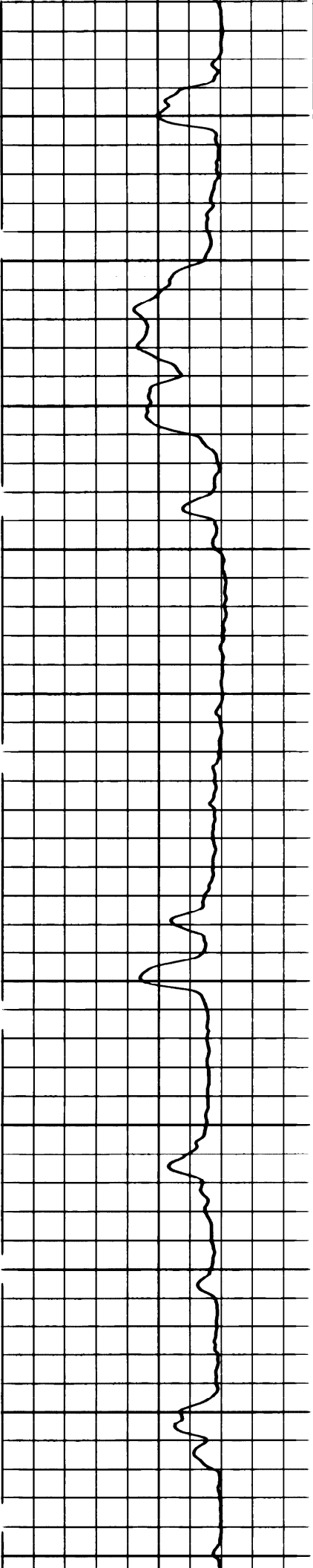
2400

2500

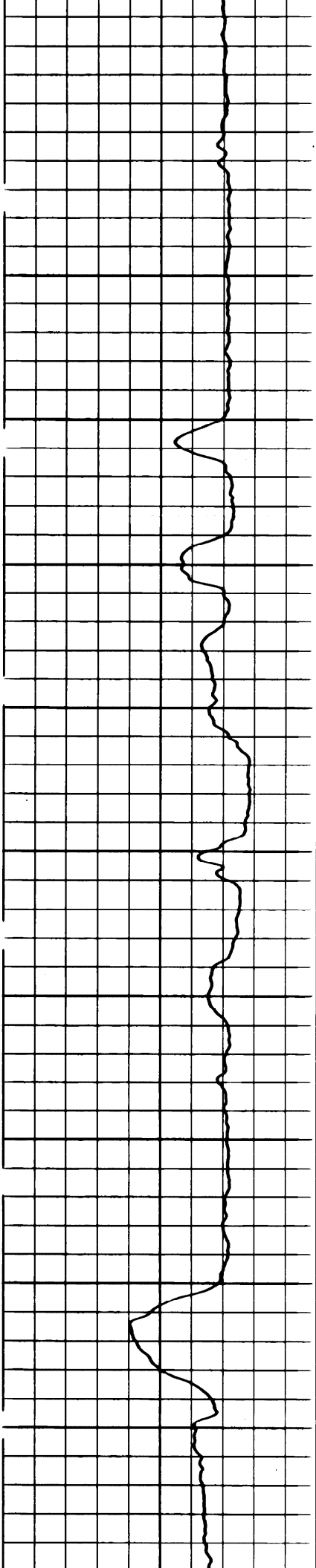
2600

2700

2800



DIVIDE CREEK FIELD TYPE LOG 045-05208



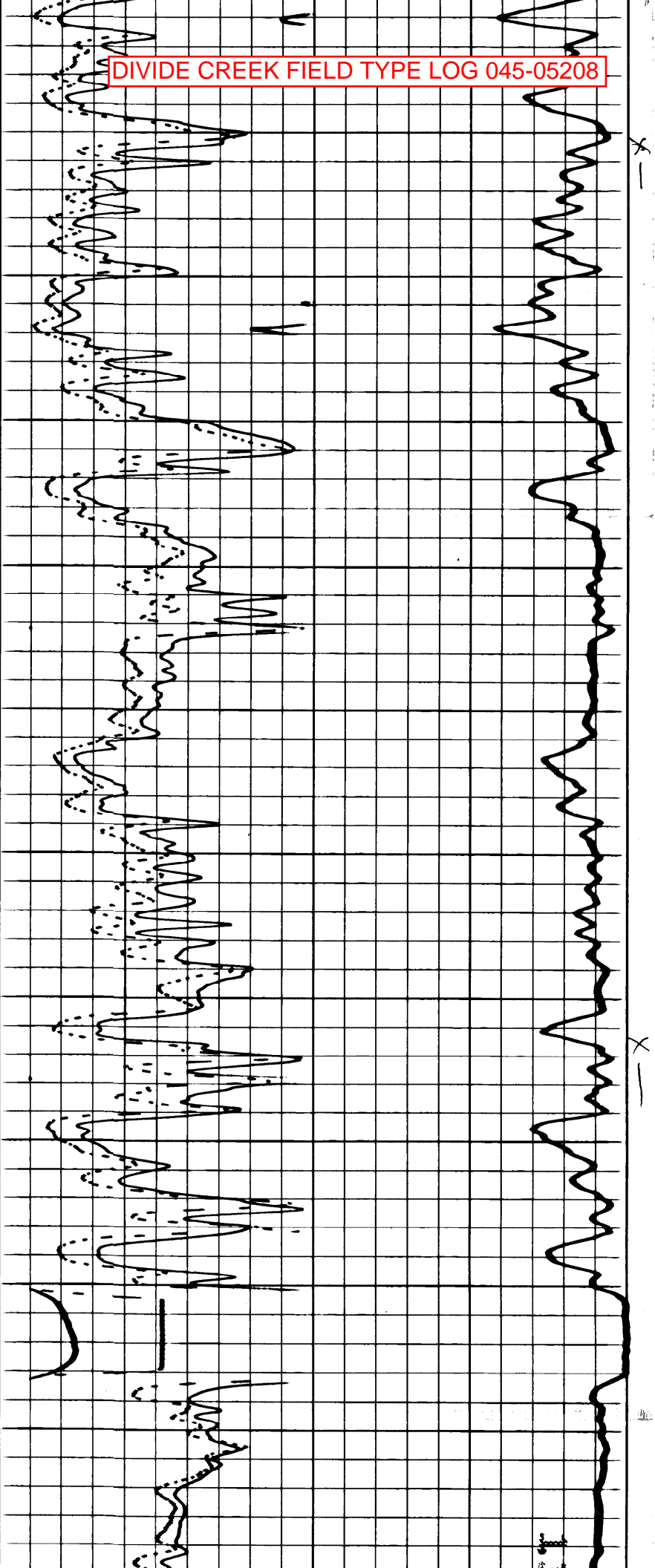
2900

3000

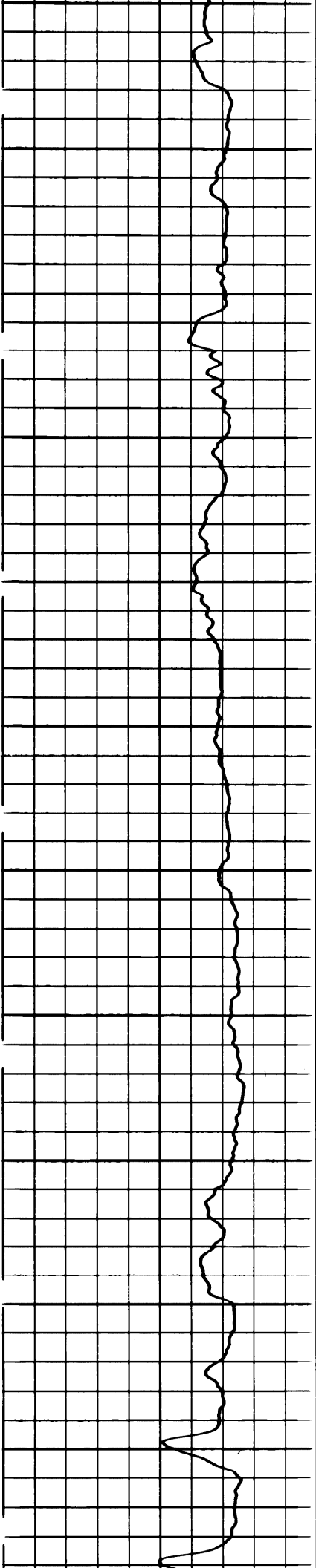
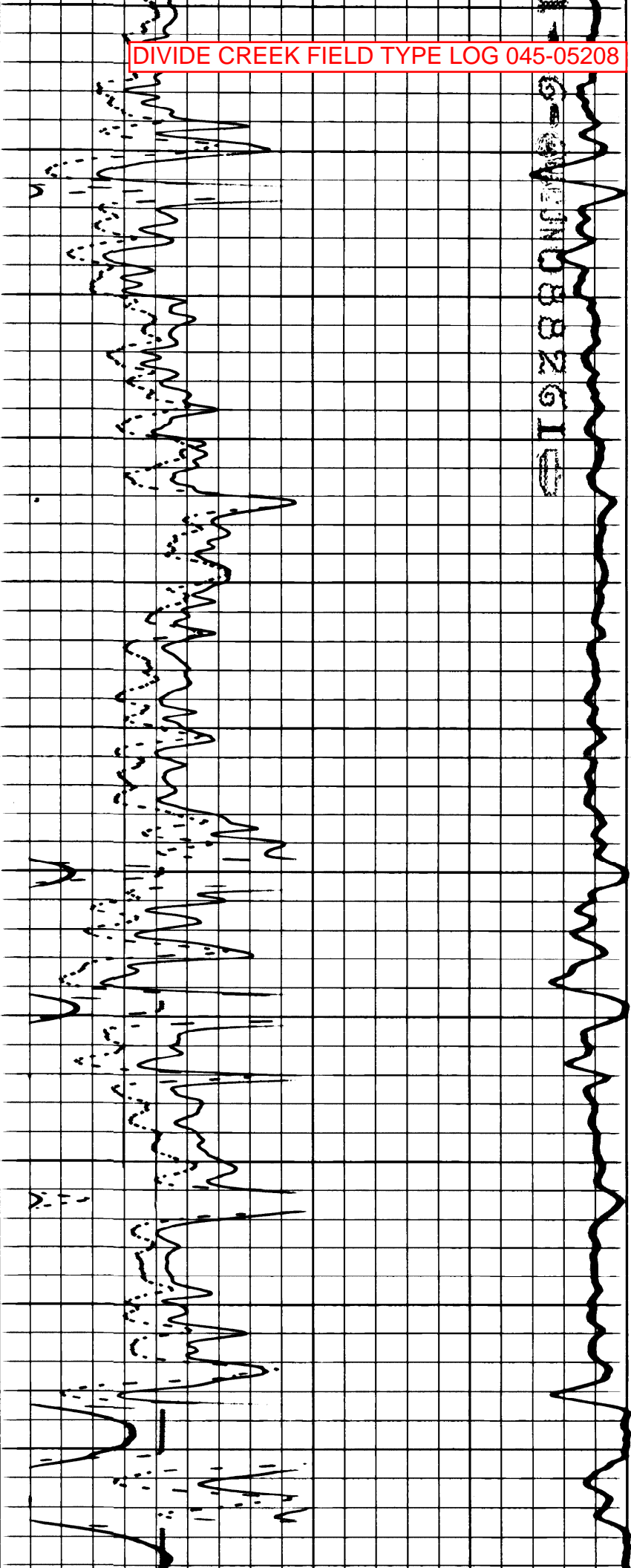
3100

3200

3300



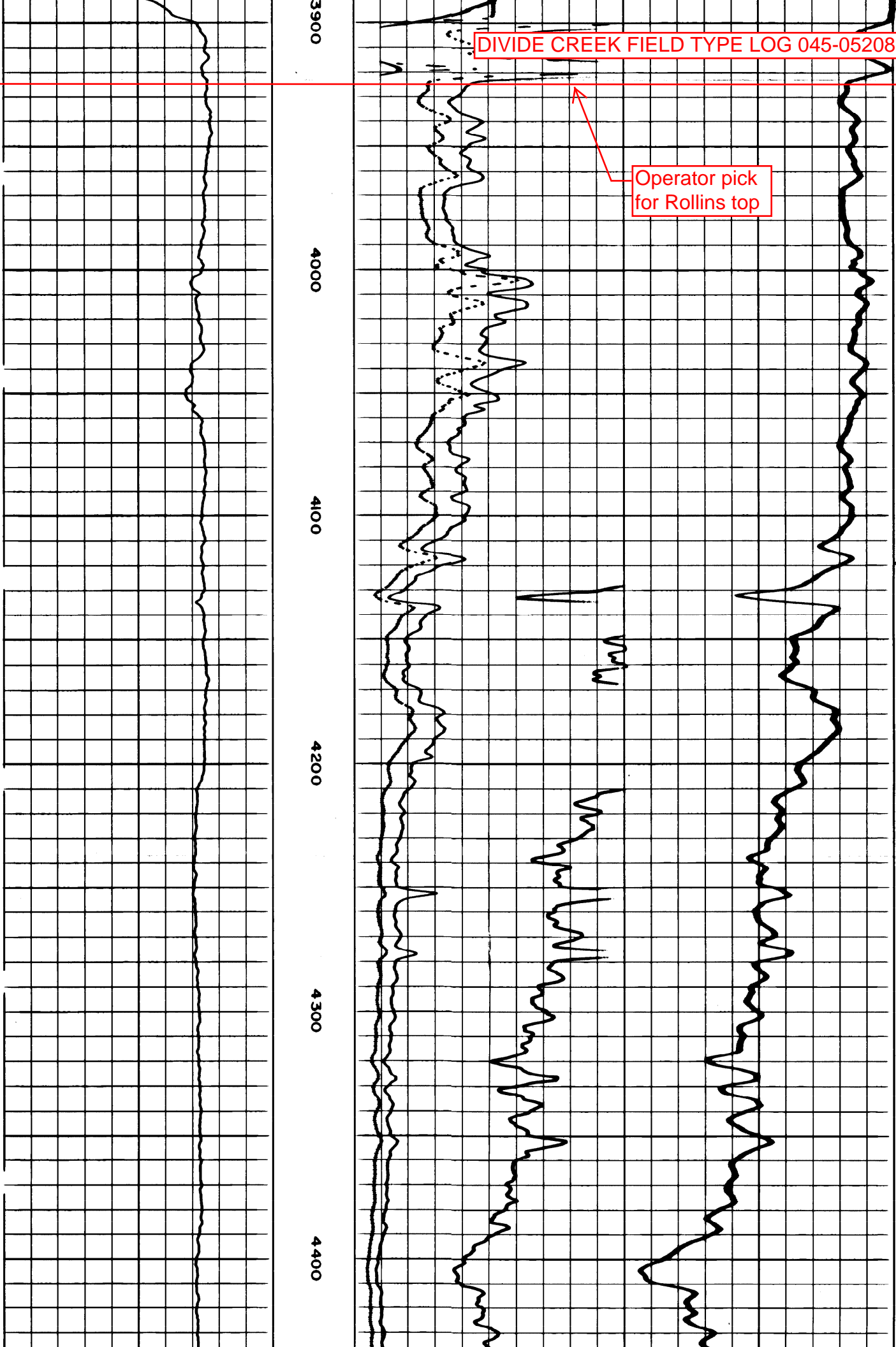
1-6-41  
JUN 08 8 26 13



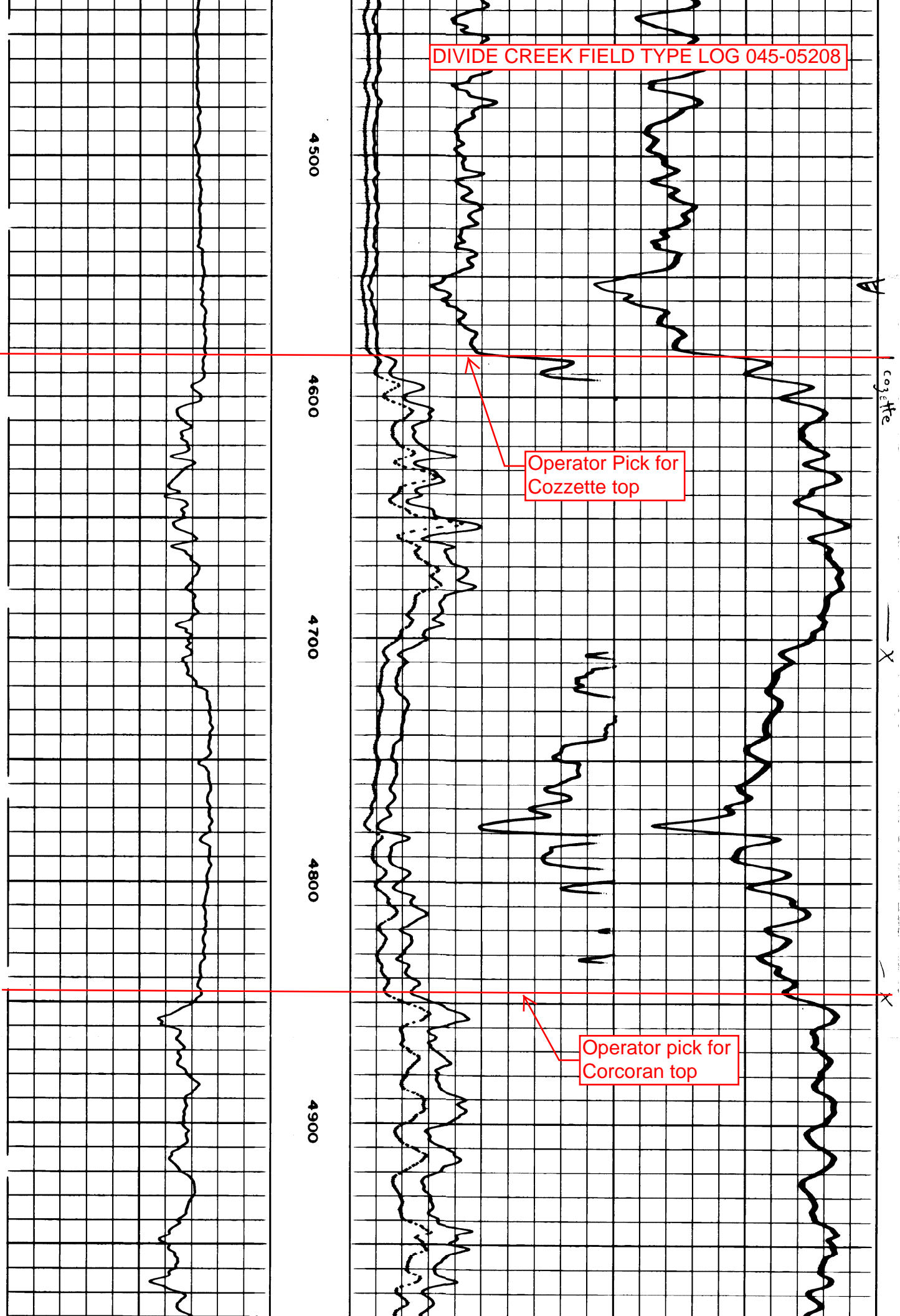


1 DE 142105

Operator pick  
for Rollins top



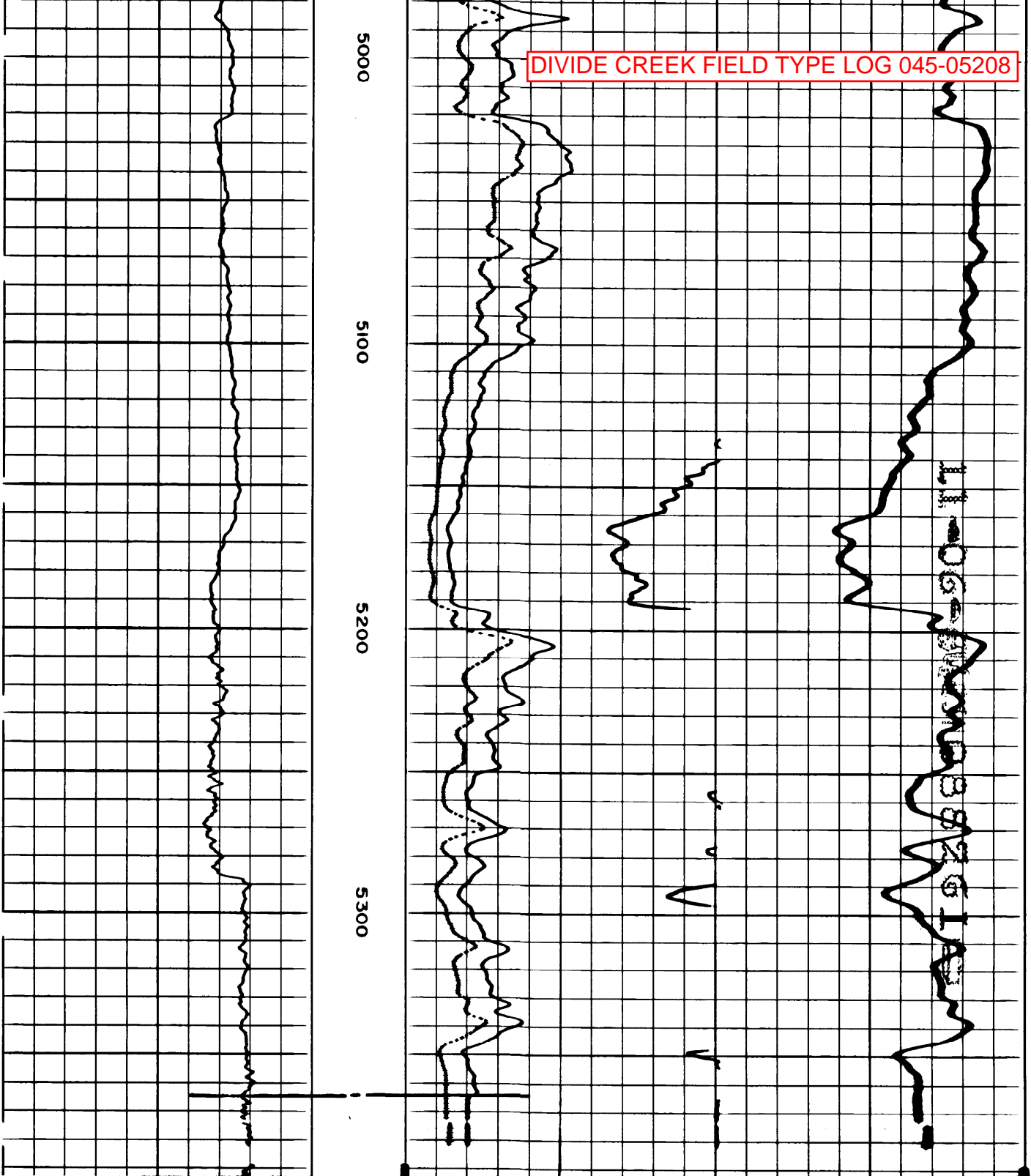
DIVIDE CREEK FIELD TYPE LOG 045-05208



Operator Pick for  
Cozzette top

Operator pick for  
Corcoran top

DIVIDE CREEK FIELD TYPE LOG 045-05208



A - 16" - M  
SHORT NORMAL

0 100

0 1000

INDUCTION

0 100

0 1000

AMP. NORMAL 20

RESISTIVITY

ohms - m<sup>2</sup>/m

Ohms - m / m

6- FF40  
INDUCTION

200

0

400

200

- | 10 | +  
↔

SPONTANEOUS-POTENTIAL  
millivolts

DEPTH

CONDUCTIVITY

millimhos/m =  $\frac{1000}{\text{ohms} - \text{m}^2/\text{m}}$

COMPANY SUN OIL COMPANY

WELL DIVIDE CREEK UNIT # 12

FIELD DIVIDE CREEK

COUNTY GARFIELD STATE COLORADO

SWSC FR 5365

SWSC TD 5366

DRLR TD 5360

Elev:

KB 8955.4

DF -

GL 8943

DIVIDE CREEK FIELD TYPE LOG 045-05208