

ALKALI CREEK FIELD TYPE LOG 077-05111

COUNTY MESA, COLORADO
 WELL EAST BUZZARD CREEK # 31-2
 COMPANY PACIFIC NAT. GAS

COGCC Document Number 2056076

04-18-2016

SCHLUMBERGER INDUCTION - ELECTRICAL LOG
 SCHLUMBERGER WELL SURVEYING CORPORATION
 Houston, Texas

Run No.	8-13-63	10-12-63	
Depth—Driller	5700	3450	
Depth—Logger	5701	8446	
Btm. Log Interval	5700	8445	
Top Log Interval	266	5700	
Casing—Driller	10 3/4 @ 265	7 5/8 @ 5700	
Casing—Logger	266	5700	
Bit Size	9 7/8"	6 3/4"	
Type Fluid in Hole	GEL - CHEMICAL	MUD CONTROL - X	OIL & GAS CONSERVATION COMMISSION
Dens. Visc.	9.5 @ 65	9.3 @ 120	
pH Fluid Loss	8.5 @ 8.2 ml	9.0 @ 5.6 ml	
Source of Sample	PLTS	CIBC	
R _m @ Meas. Temp.	5.0 @ 70°F	2.5 @ 75°F	
R _{ml} @ Meas. Temp.	4.8 @ 70°F	1.9 @ 75°F	
R _{mc} @ Meas. Temp.	2.4 @ 124°F	2.2 @ 75°F	
Source: R _{ml} R _{mc}	F ₁ C	PRESS PRESS	
R _m @ BHT	2.8 @ 124°F	1.0 @ 200°F	
Time Since Circ.	3 HOURS	4 HOURS	
Max. Rec. Temp.	124	200	
Equip. Location	2598 G.J.	2598 G.J.	
Recorded By	MONTGOMERY	WARNER	
Witnessed By	CLUTTER	CLUTTER	

Permanent Datum: G.L. 12 Ft. Above Perm. Datum Elev.: K.B. 7717
 Log Measured From K.B. 12 Ft. Above Perm. Datum Elev.: K.B. 7729
 Drilling Measured From K.B. Datum Elev.: G.L. 7717

LOCATION: 1043' FNL - 1600' FEL
 COUNTY: MESA STATE: COLORADO
 Twp. 9S Rge. 92W SL-C, GR-N

REMARKS RUN # 2 S.P. TRACED FROM DOWN RUN 8212' TO T.D.

Changes in Mud Type or Additional Samples		Scale Changes	
Date	Sample No.	Type Log	Depth
		RUN # 1	
		RUN # 2	
Dens.	Visc.		
ph	Fluid Loss		
	ml		
Source of Sample	RUN # 1	RUN # 2	Equipment Data
R _m @ Meas. Temp.	@ °F	@ °F	Run No.
R _{ml} @ Meas. Temp.	@ °F	@ °F	Tool Type
R _{mc} @ Meas. Temp.	@ °F	@ °F	Tool Position
Source: R _{ml} R _{mc}			Other
R _m @ BHT	@ °F	1.0 @ 200°F	
R _{ml} @ BHT	2.7 @ 124°F	0.7 @ 200°F	
R _{mc} @ BHT	@ °F	0.8 @ 200°F	

C.D.: USED S.O.: = 1 1/2" RUN # 1 & 2 RUN # 2 WHIPSTOCK @ 6020
 Equip. Used: CART. No. RUN# 1&2 534 D
 PANEL No. 124 E
 SONDE No. 216 K
 SBF 4

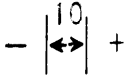
SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms. m}^2/\text{m}}$
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6 - FF40
INDUCTION

400

200

0



600

400

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RESISTIVITY
-ohms. m²/m

A - 16" - M
SHORT NORMAL

0

100

0

1000

INDUCTION

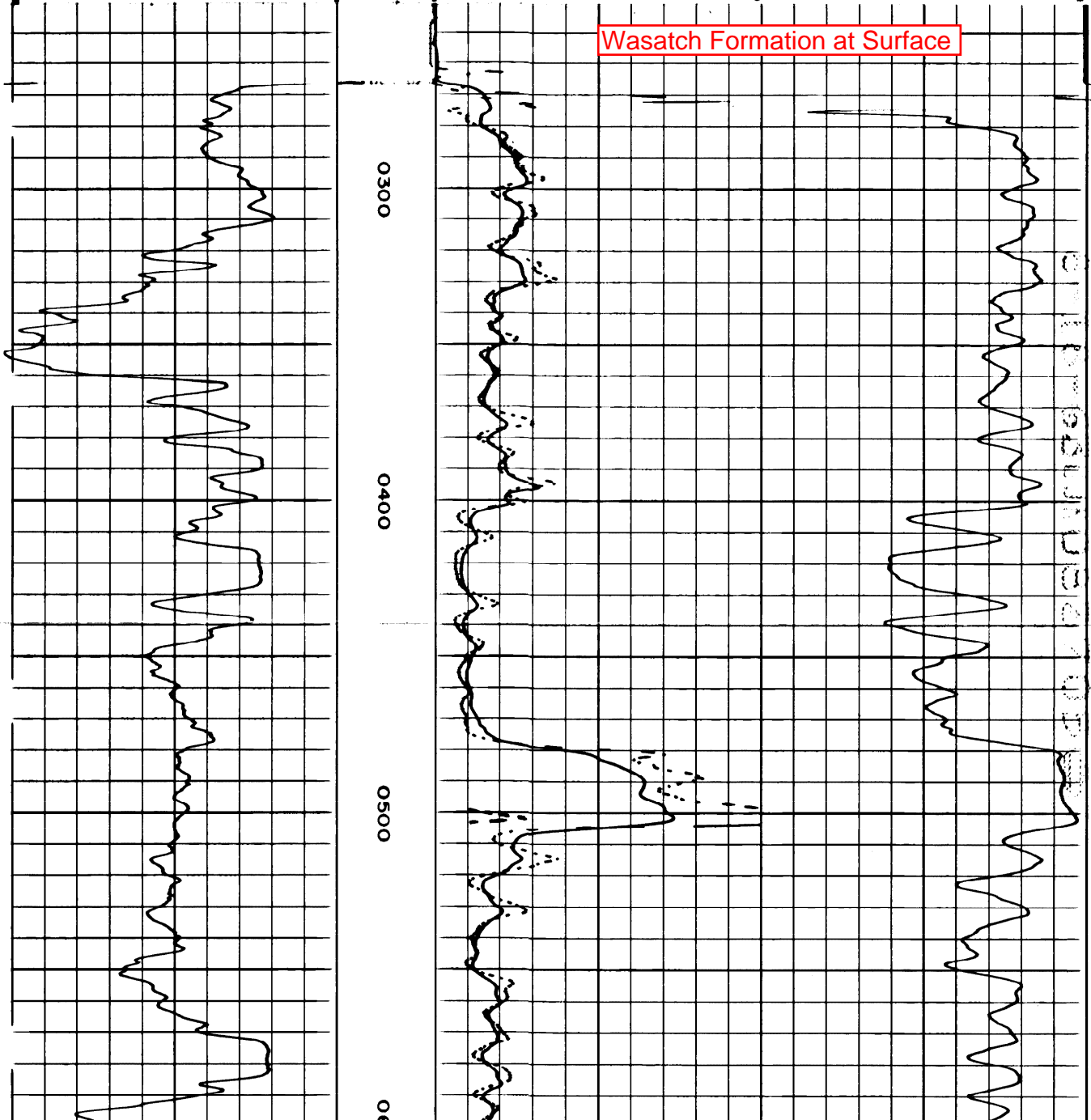
0

100

0

1000

Wasatch Formation at Surface



0300

0400

0500

0600

077-05111

500

0700

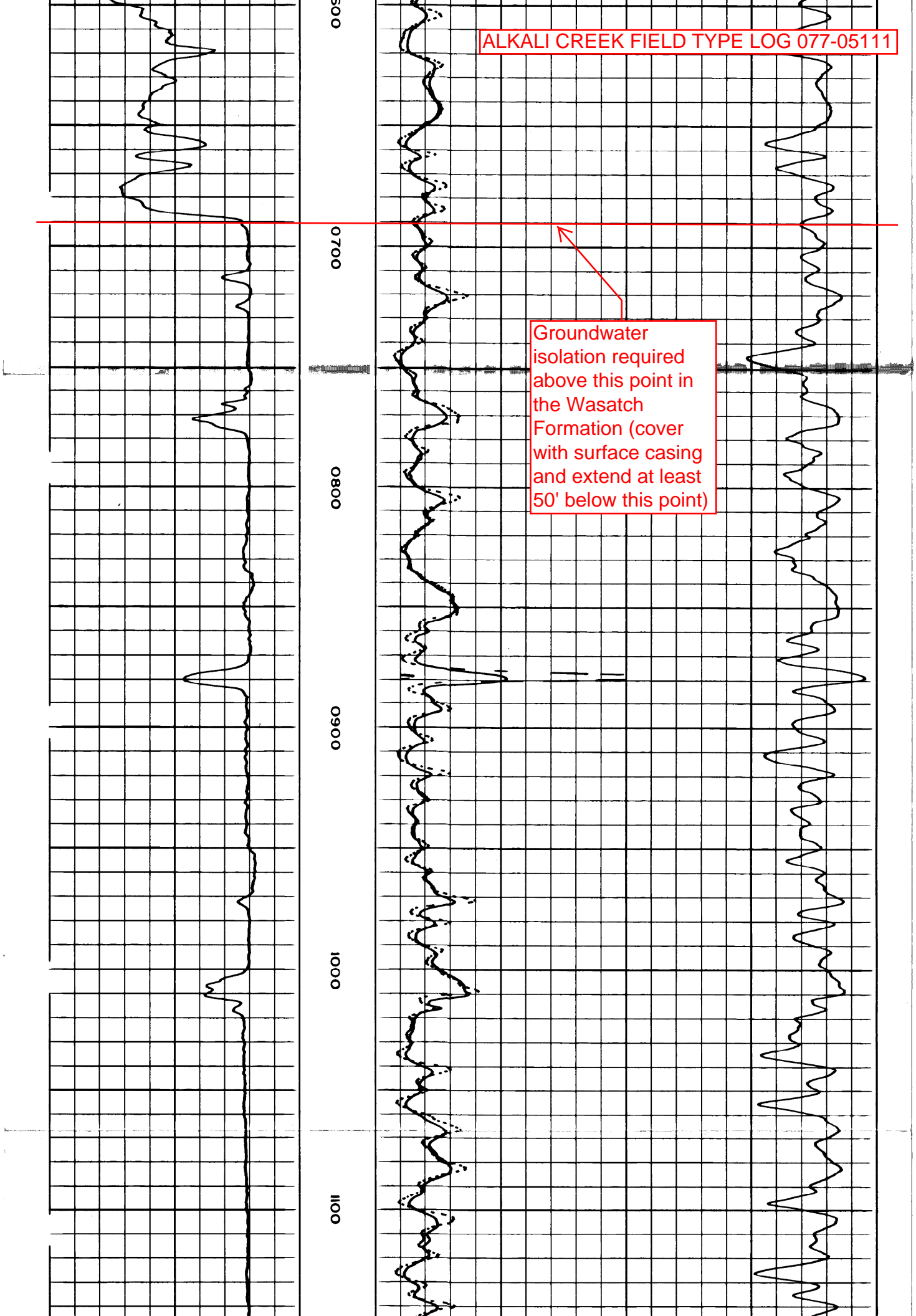
0800

0900

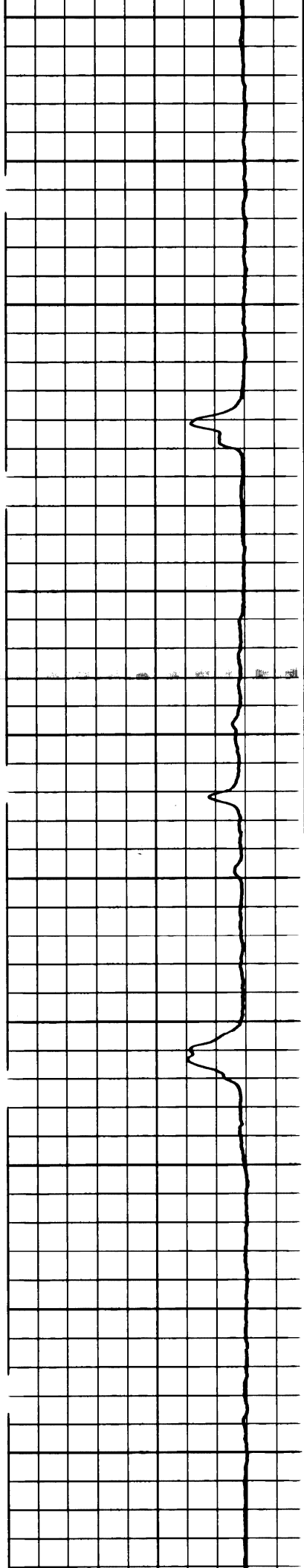
1000

1100

Groundwater
isolation required
above this point in
the Wasatch
Formation (cover
with surface casing
and extend at least
50' below this point)



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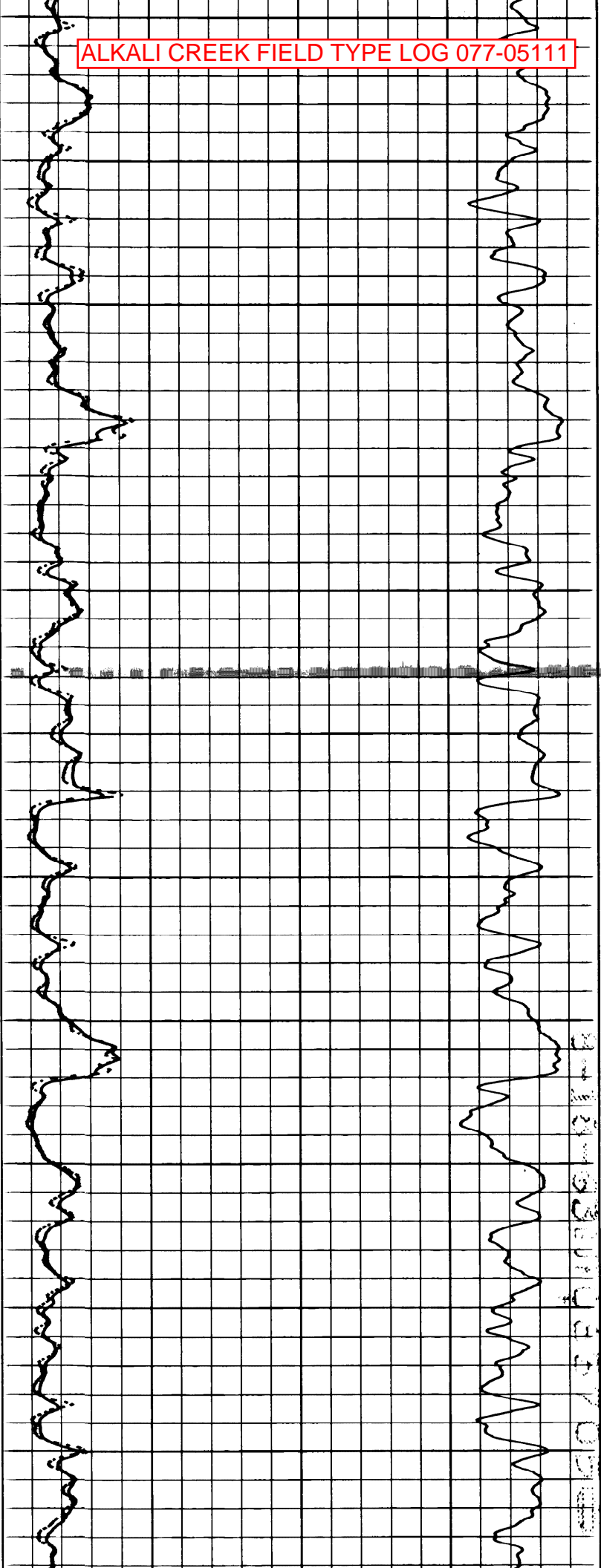
1200

1300

1400

1500

1600



1-13-68 077-05111

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1700

1800

1900

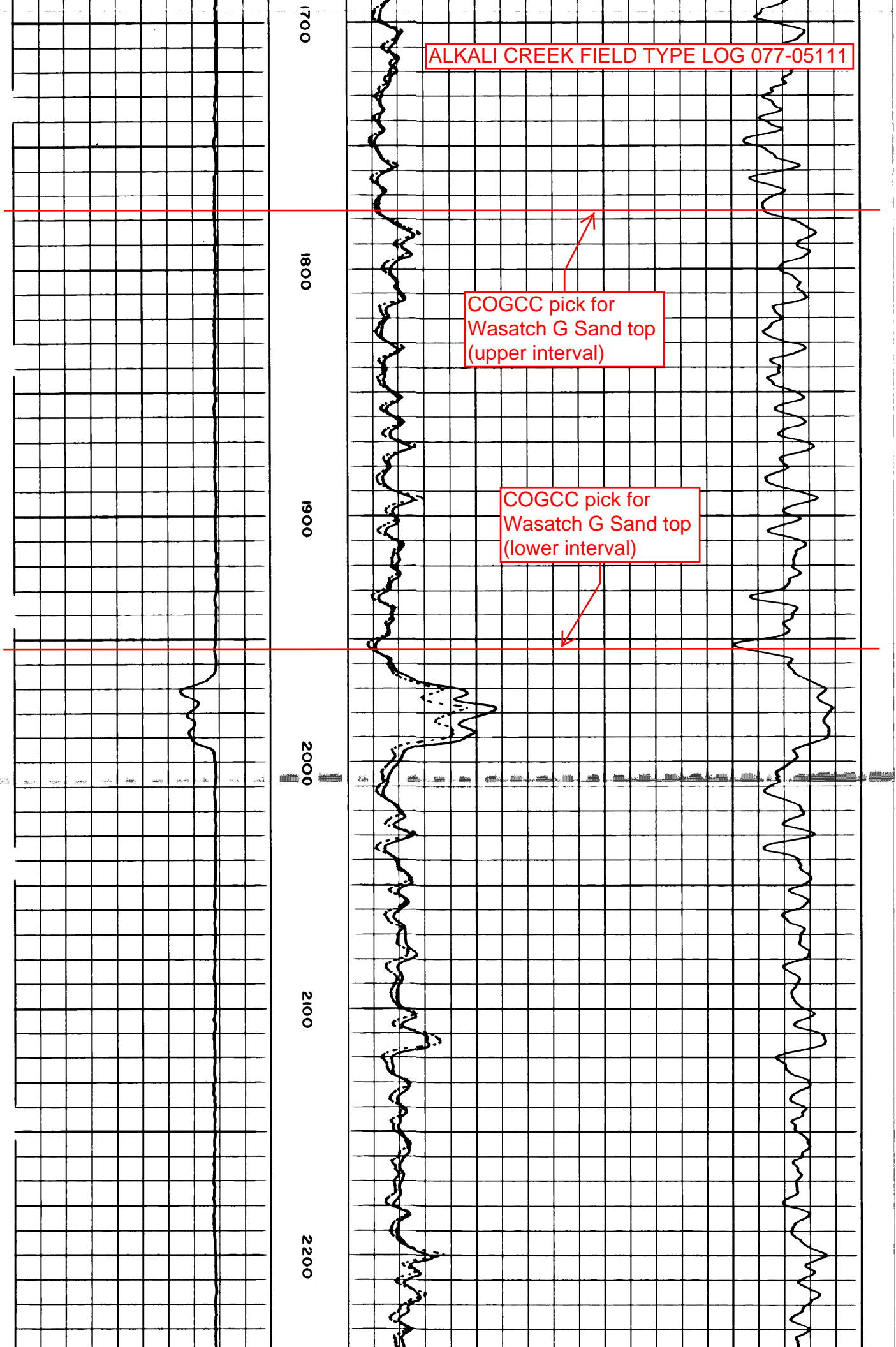
2000

2100

2200

COGCC pick for
Wasatch G Sand top
(upper interval)

COGCC pick for
Wasatch G Sand top
(lower interval)



2300

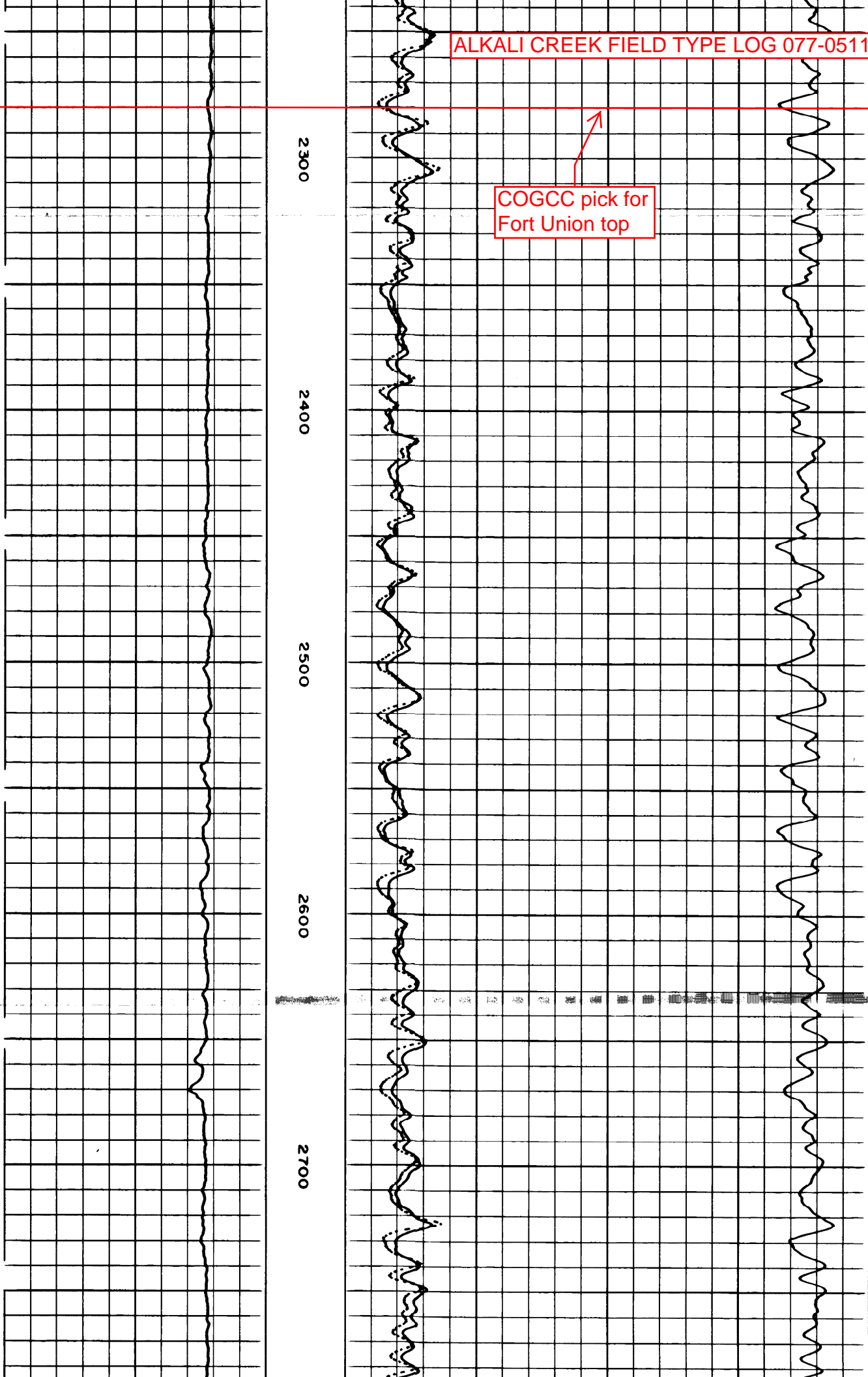
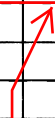
2400

2500

2600

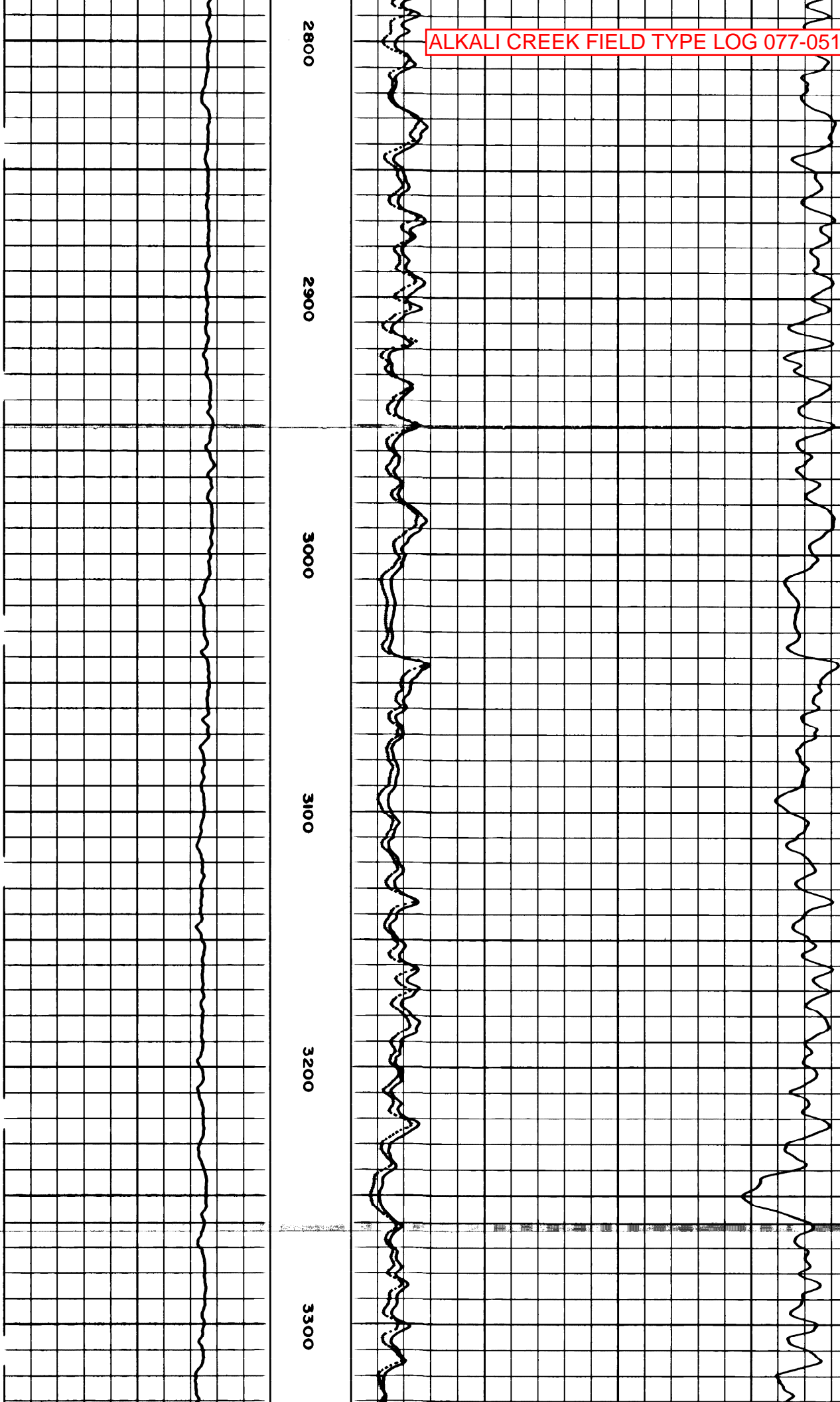
2700

COGCC pick for Fort Union top



018-551108370511

2800 2900 3000 3100 3200 3300



COGCC pick for Lower Wasatch top (cement required 200' above this point [9S-92W] or 500' above this point [7S-92W and 8S-92W], effective 04-18-2016)

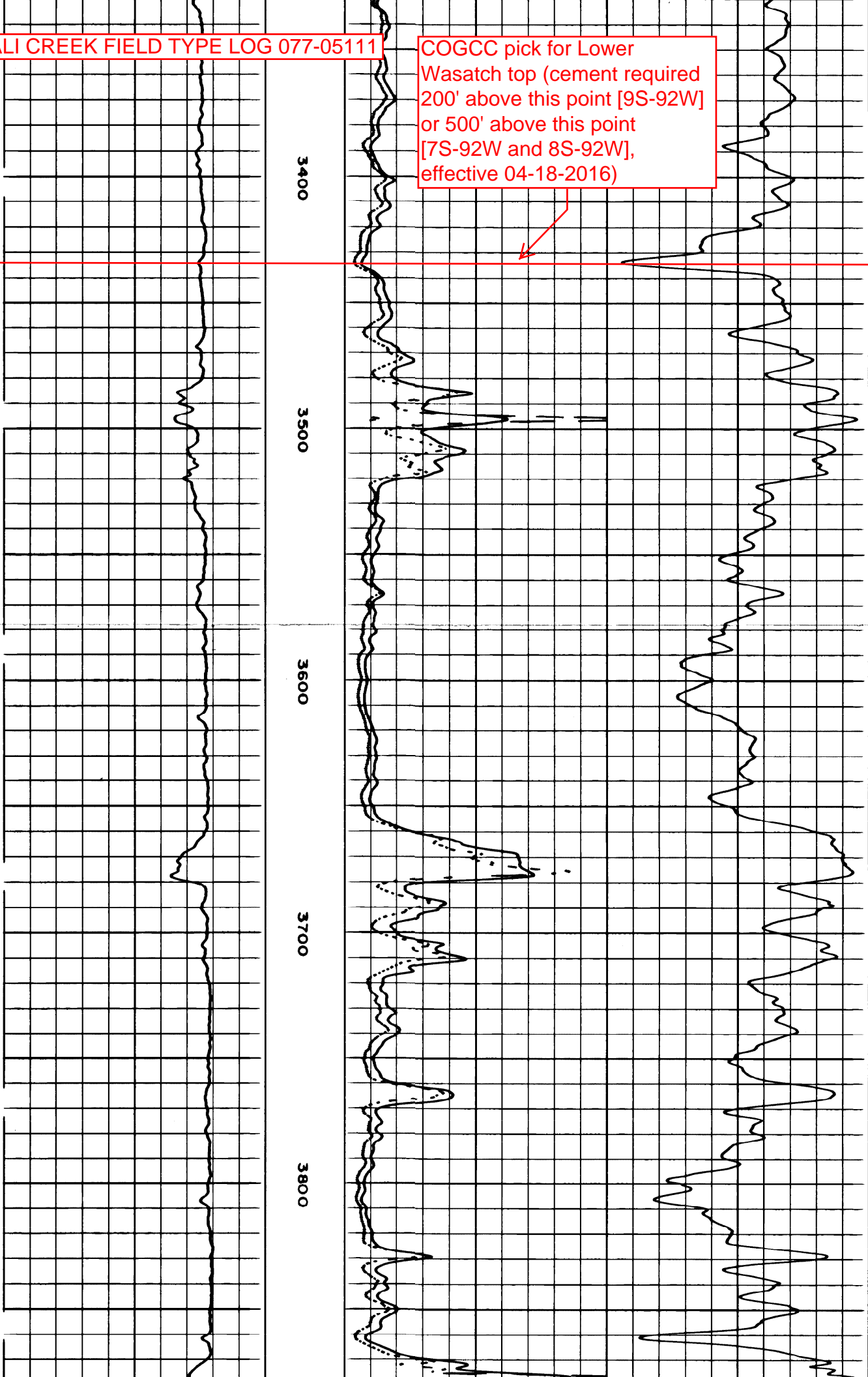
3400

3500

3600

3700

3800



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COGCC pick for Ohio Creek top

COGCC pick for U. Mesaverde top

3900

4000

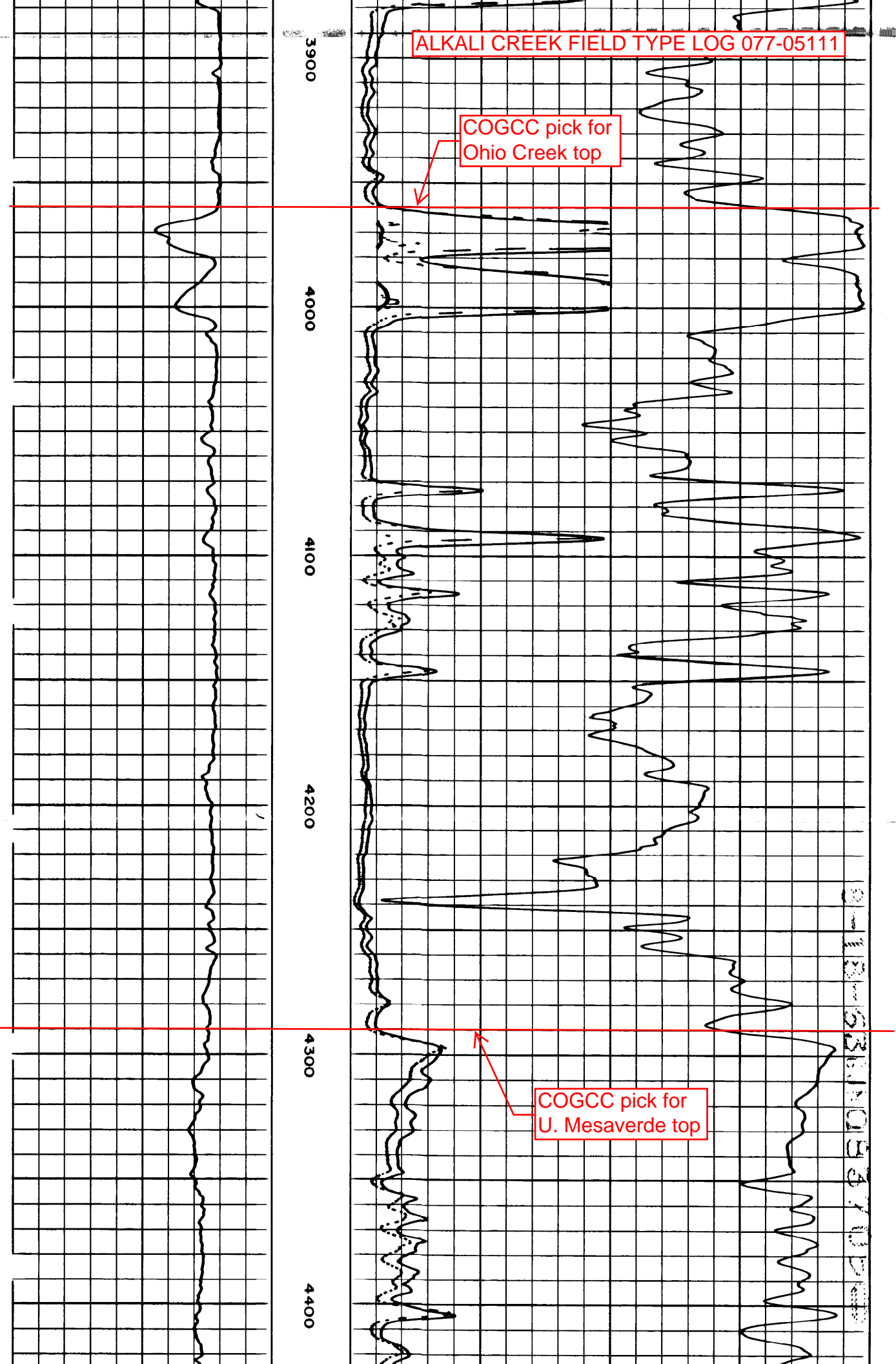
4100

4200

4300

4400

9-13-53 1109 3100



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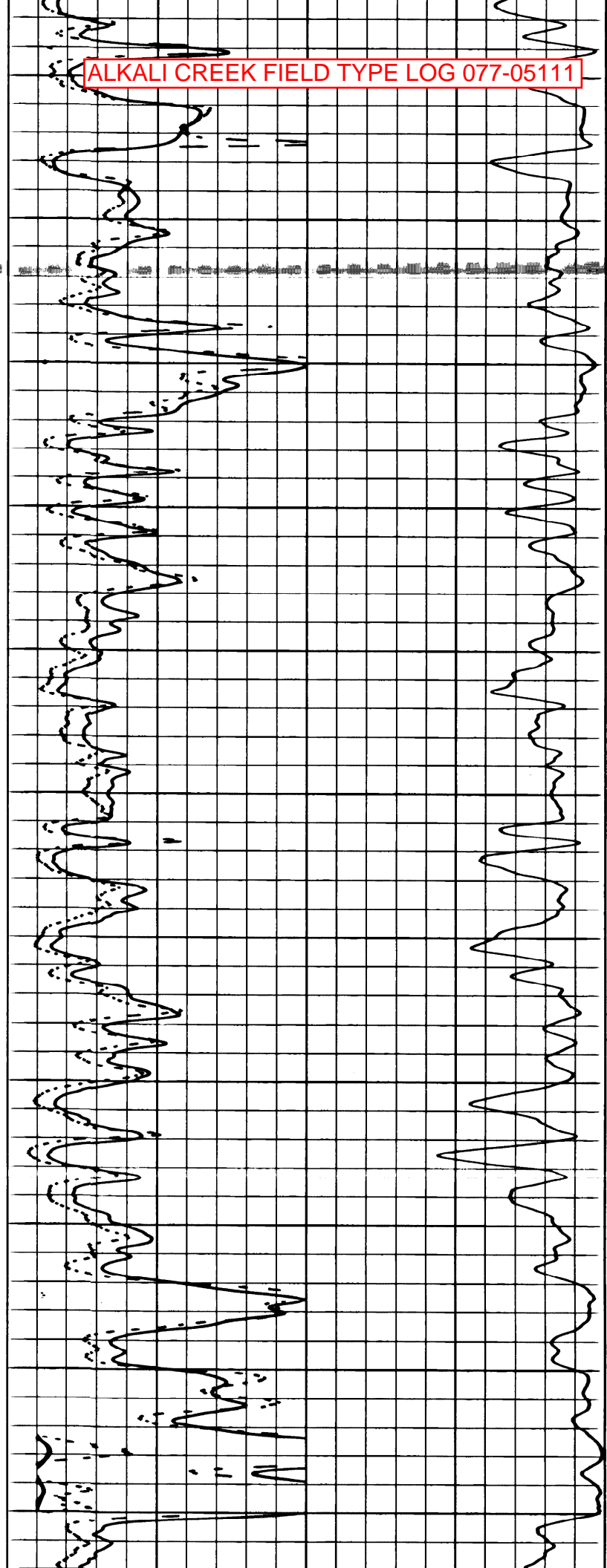
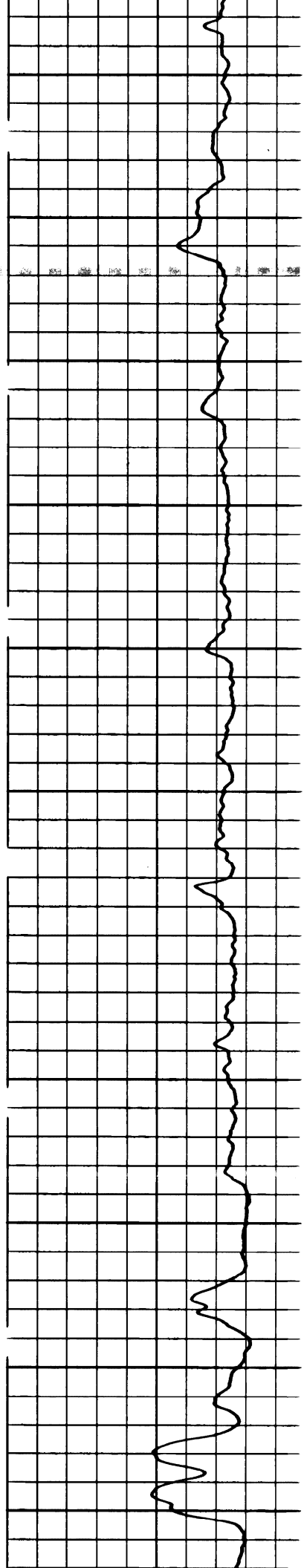
4500

4600

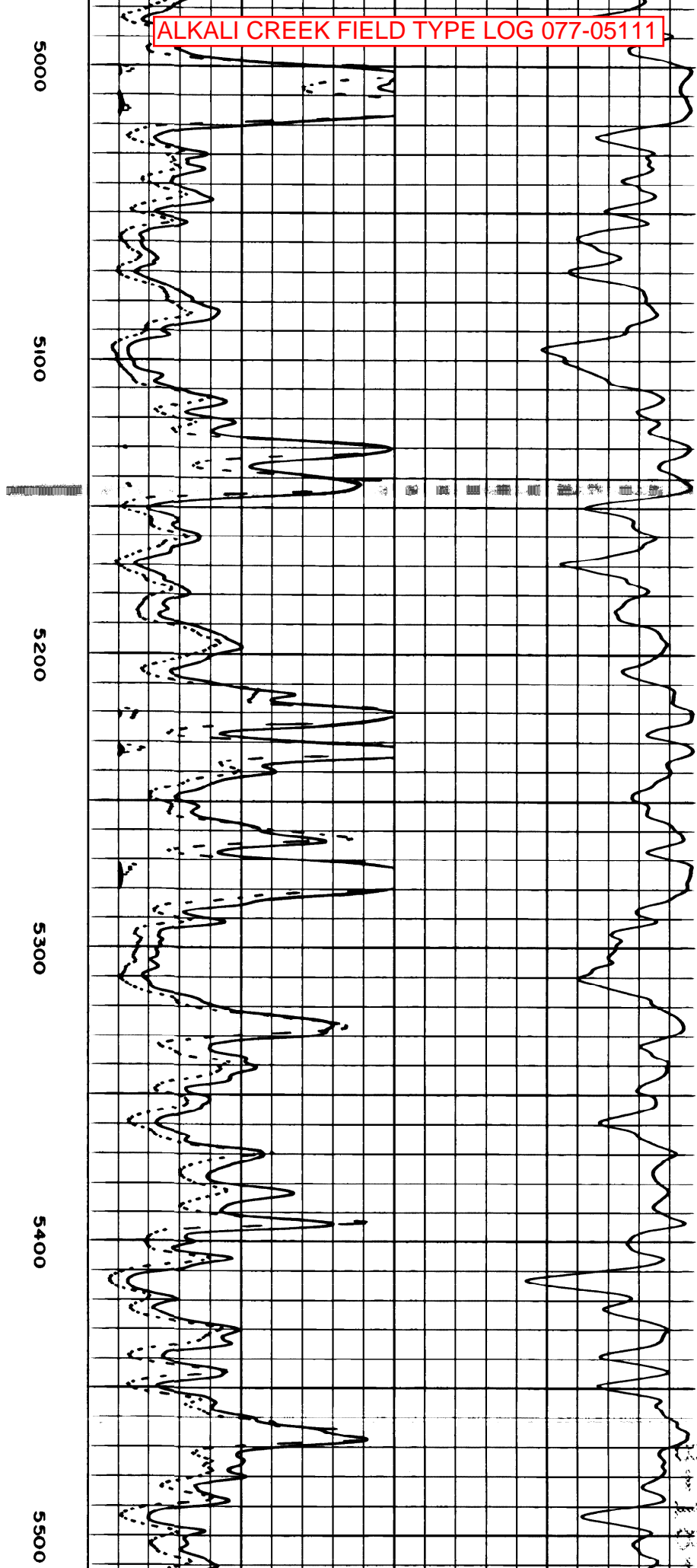
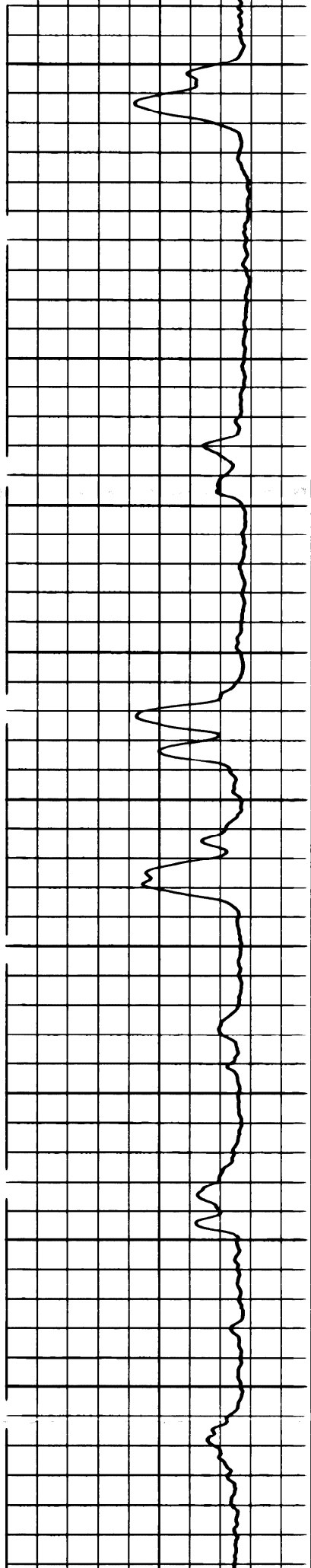
4700

4800

4900

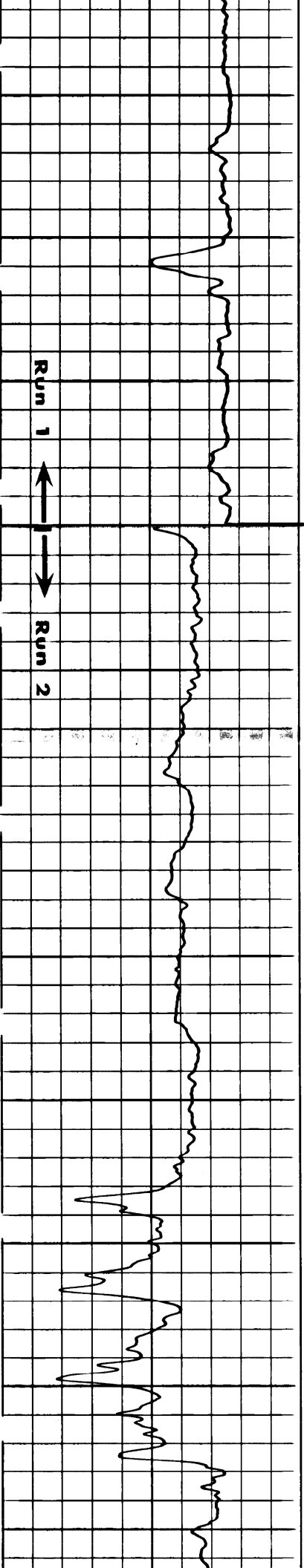


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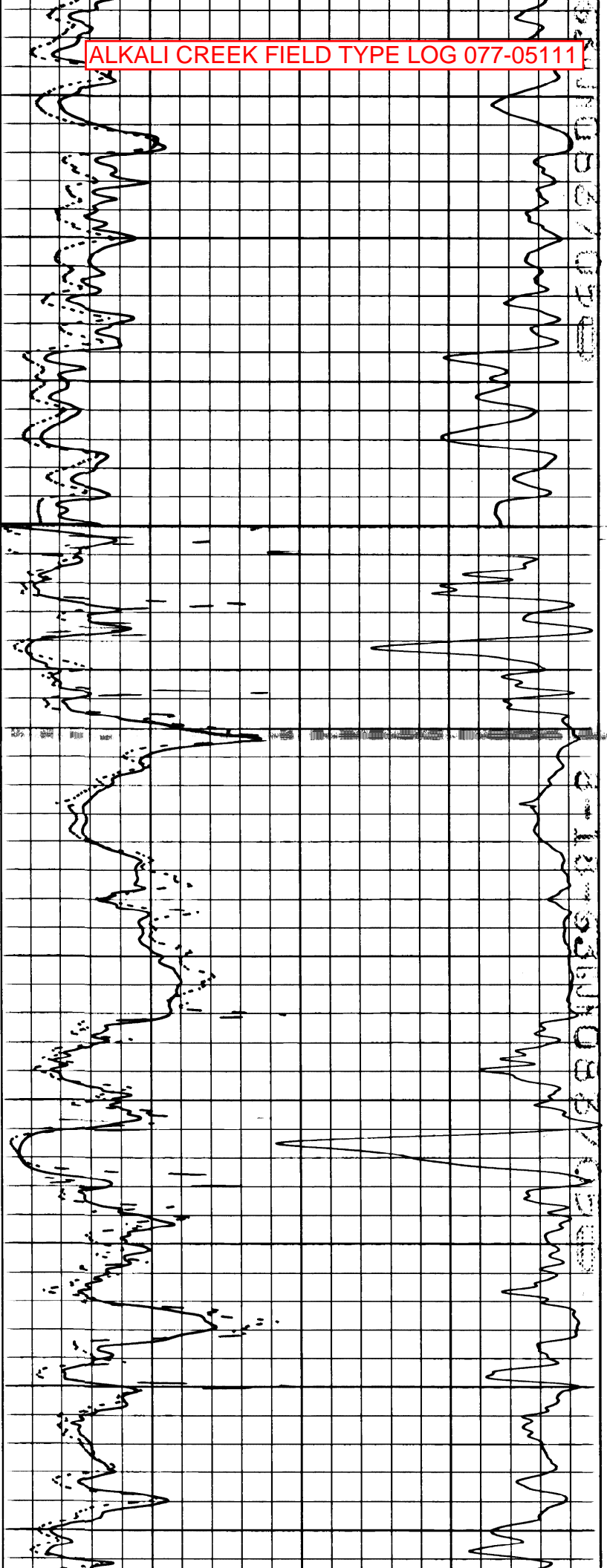
5600

5700

5800

5900

6000



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6100

6200

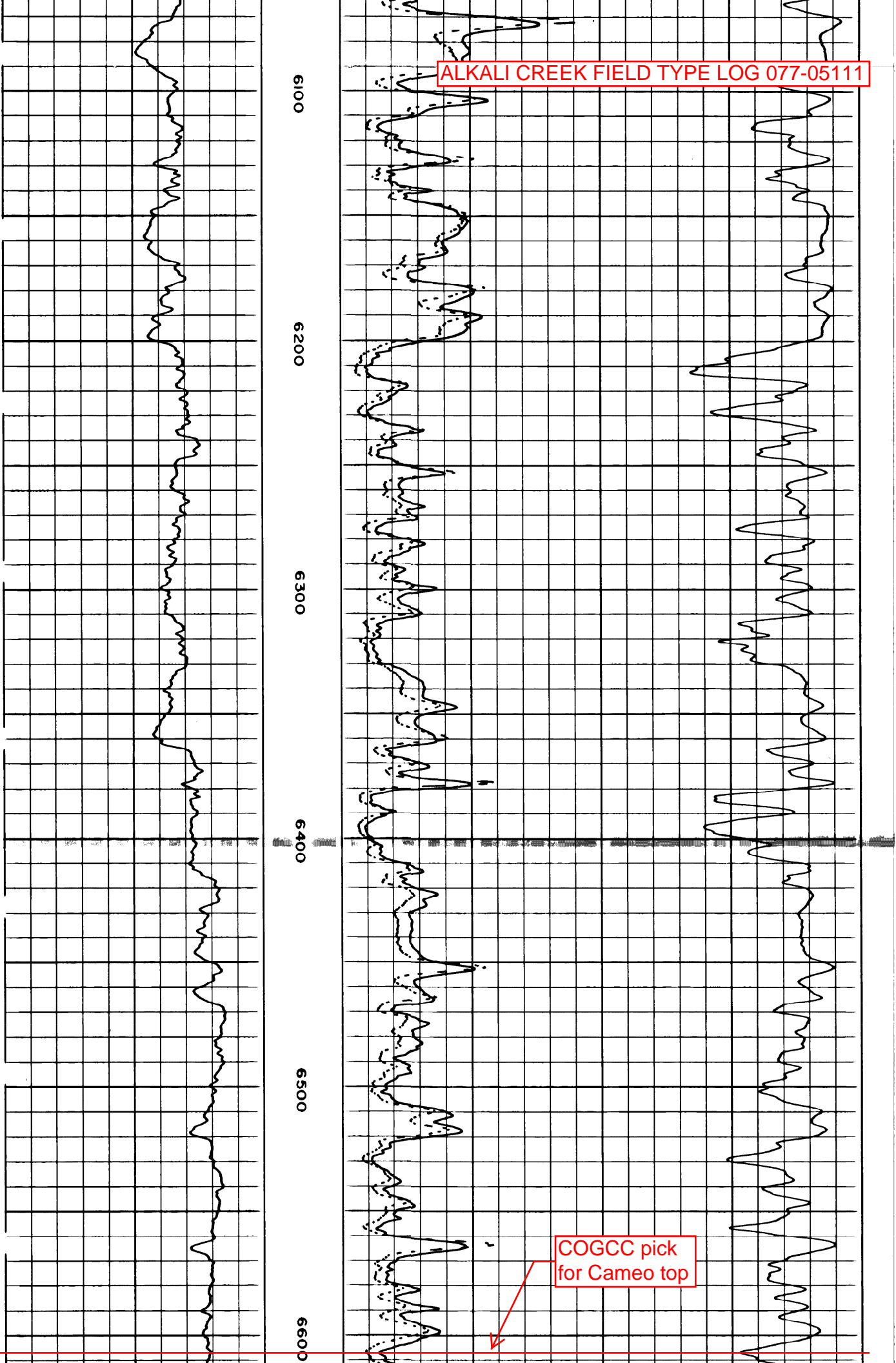
6300

6400

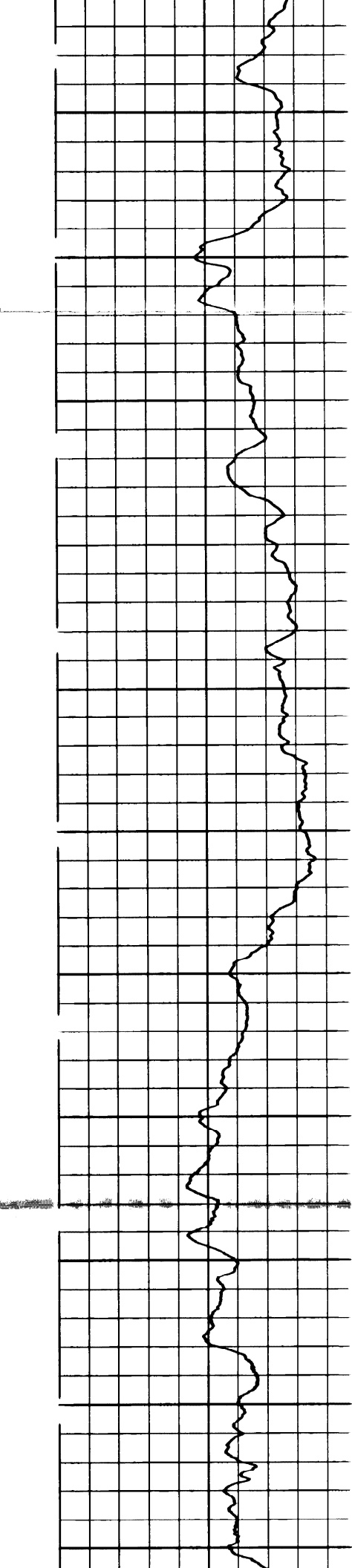
6500

6600

COGCC pick
for Cameo top



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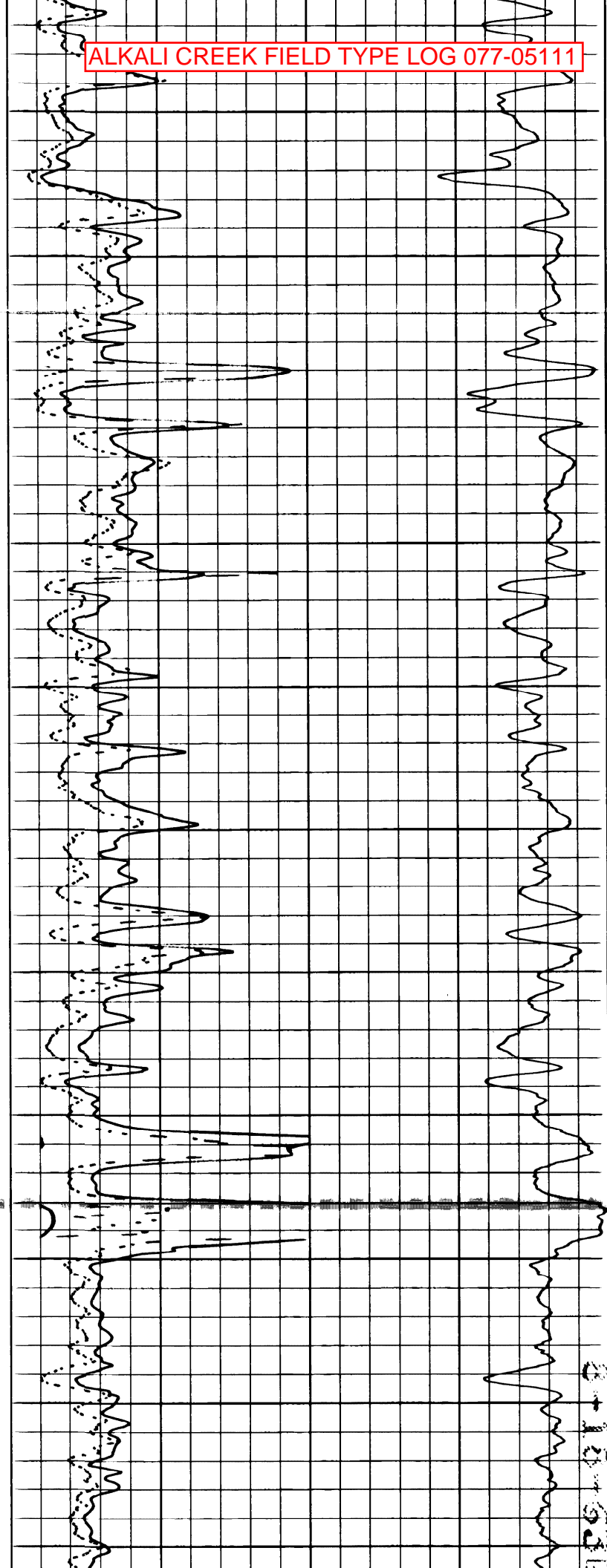
6700

6800

6900

7000

7100



077-05111

7200

7300

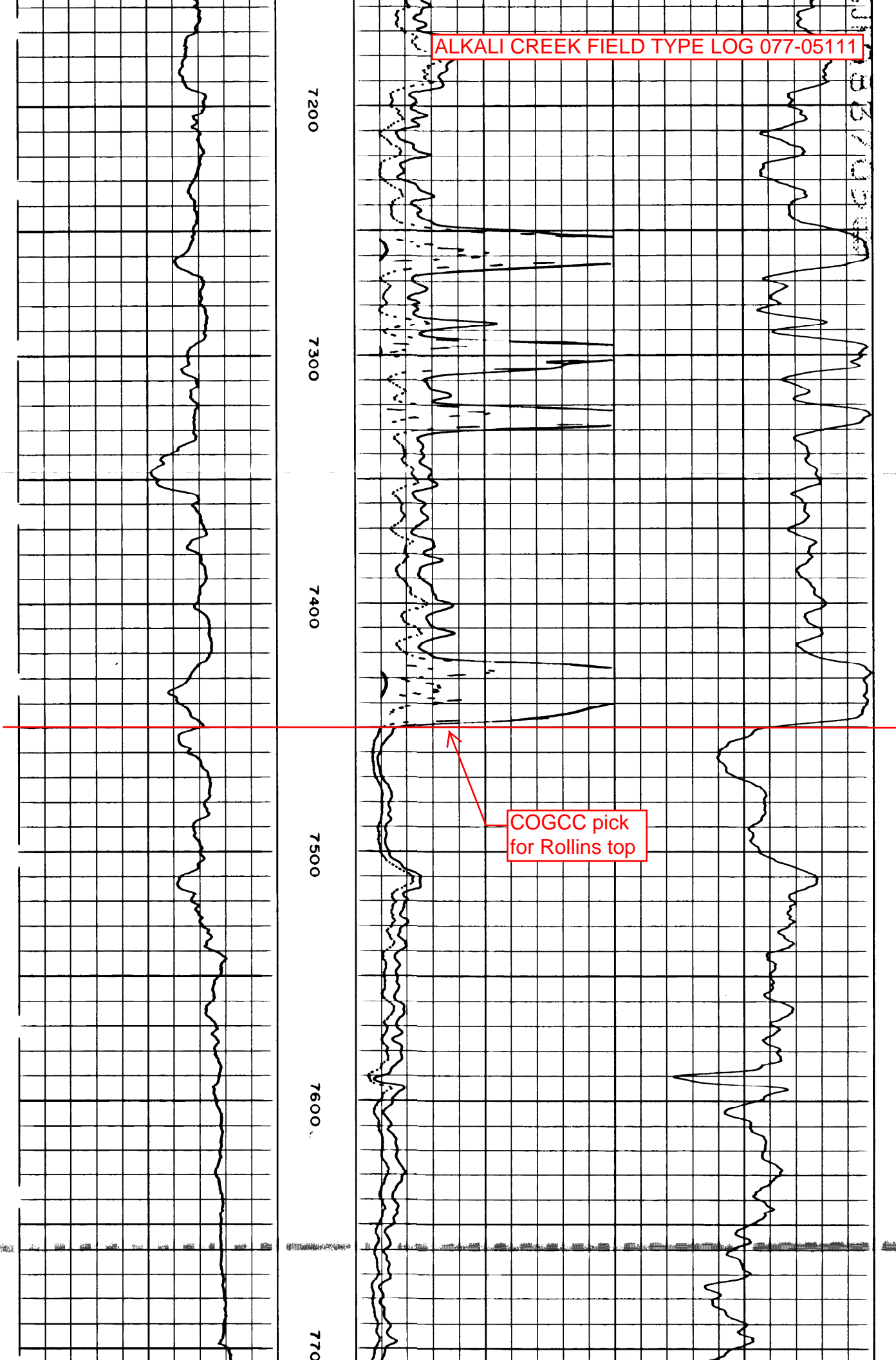
7400

7500

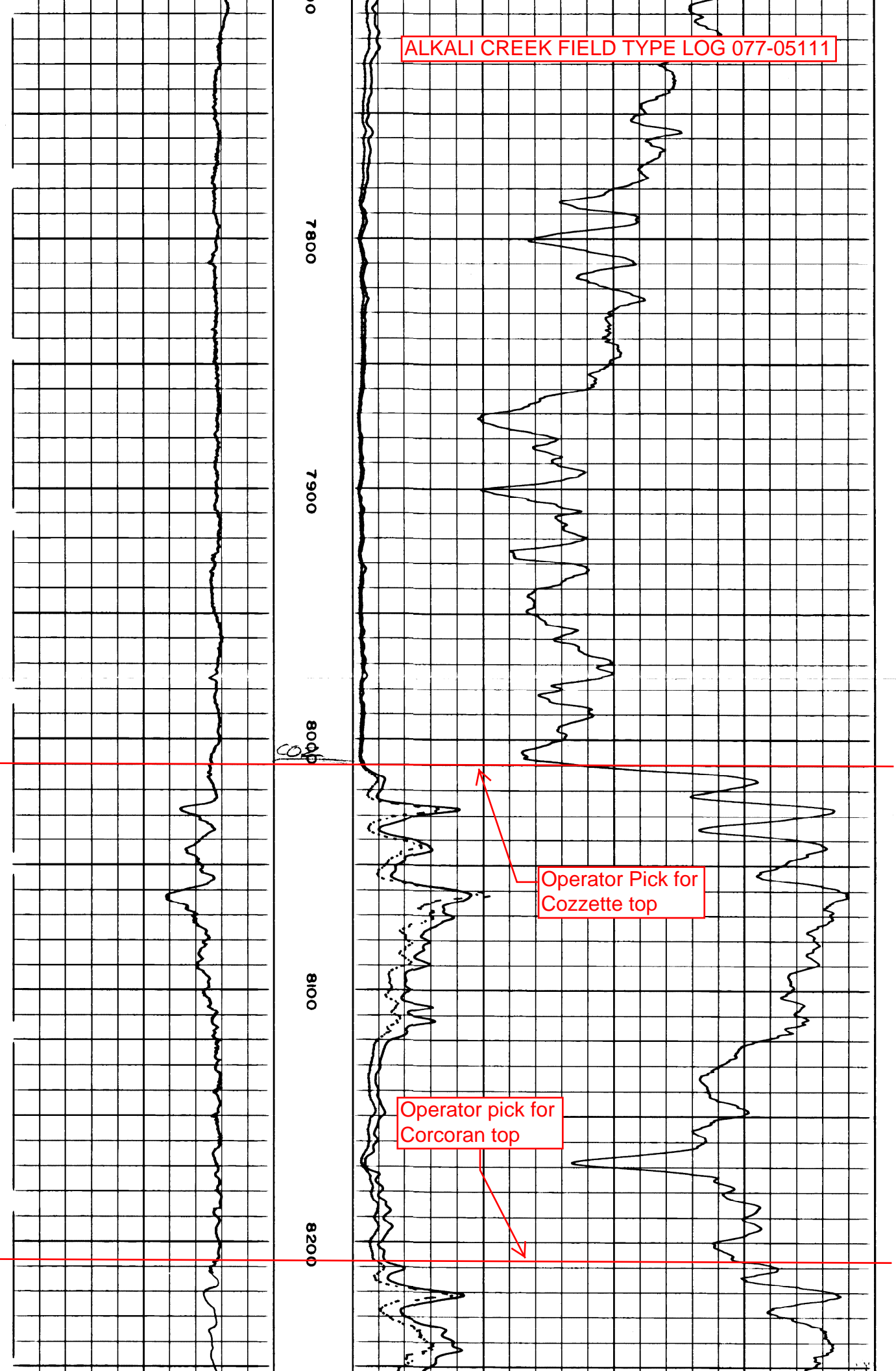
7600

7700

COGCC pick
for Rollins top



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Operator Pick for
Cozzette top

Operator pick for
Corcoran top

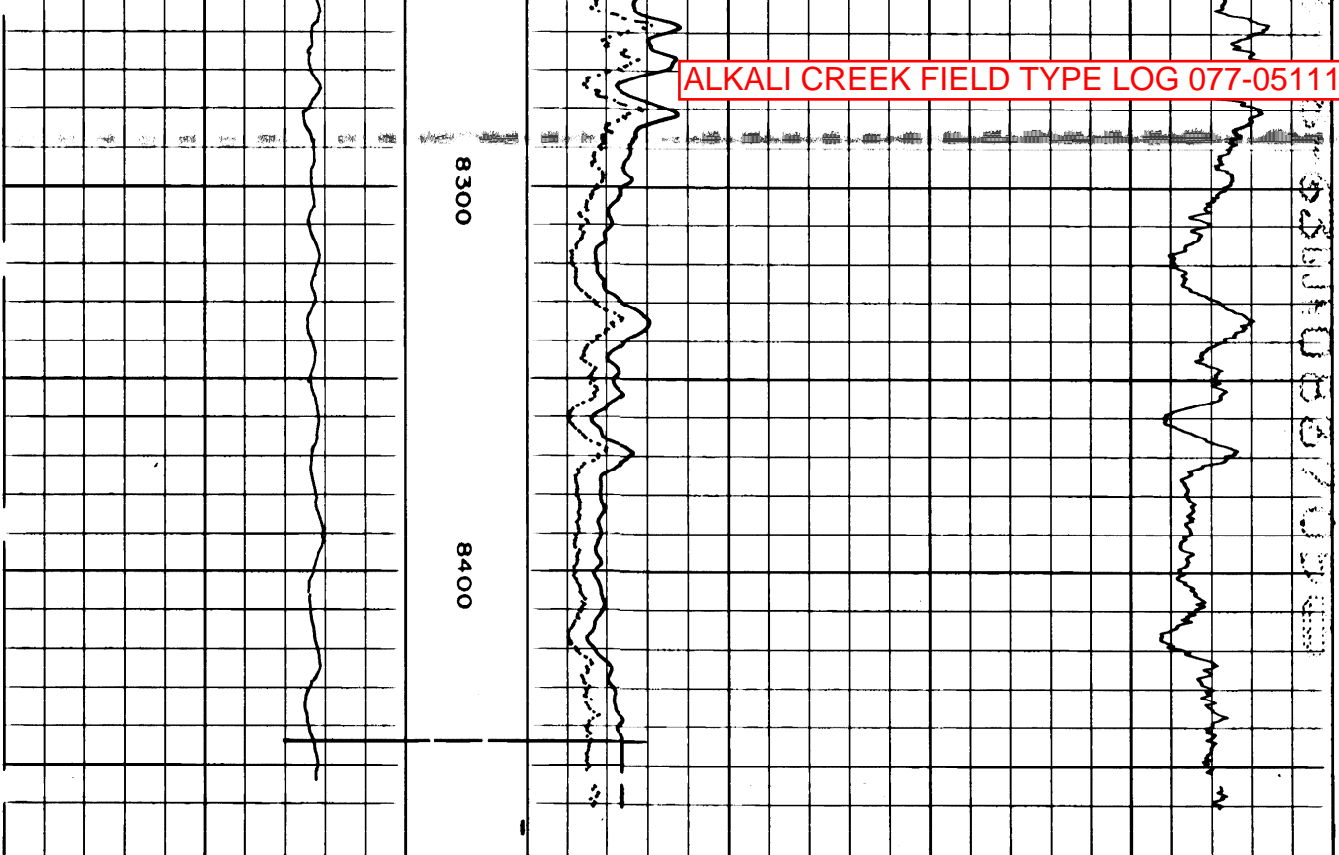
7800

7900

8000

8100

8200



- 10 + 	A - 16" - M SHORT NORMAL	0 100
		0 1000
	INDUCTION	0 100
		0 1000
	RESISTIVITY ohms - m ² /m	
	6-FF40 INDUCTION	0 400
		200 600 400
SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms} - \text{m}^2/\text{m}}$

0011-2878

COMPANY	<u>PACIFIC NATURAL GAS EXPLORATION CO.</u>	SWSC FR	<u>8445</u>
WELL	<u>EAST BUZZARD CREEK # 31-2</u>	SWSC TD	<u>8446</u>
FIELD	<u>WILDCAT</u>	DRLR TD	<u>8450</u>
COUNTY	<u>MESA</u>	STATE	<u>COLORADO</u>
		Elev:	KB <u>7729</u>
			DF <u>-</u>
			GI <u>7717</u>