



045  
07

COMPANY TOM BROWN INCORPORATED  
WELL SAVAGE 10-11  
FIELD  
COUNTY GARFIELD STATE CO

RULISON FIELD TYPE LOG 045-07186

COGCC Document Number 2056093

04-18-2016

DUAL INDUCTION  
GUARD LOG

COMPANY TOM BROWN INCORPORATED  
WELL SAVAGE 10-11  
FIELD RULISON  
COUNTY GARFIELD STATE CO  
API No. 045 7186  
Location 983' FNL & 1162' FWL  
Sect 10 Twp 7S Rge 94W  
Other Services  
SDL DSN GR

Date	09-14-97	Elev. 6689	Elev. K.B. 6701
Run No.	ONE		D.F.
Depth - Driller	8165		GL 6689
Depth - Logger	8157		
Bottom - Logged Interval	8155		
Top - Logged Interval	CASING		
Casing - Driller	8625 @ 557	@	@
Casing - Logger	556		
Bit Size	7.875"		
Type Fluid in Hole	LSND		
Dens.   Visc.	9.1   50		
Ph   Fluid Loss	9.0   9.0		
Source of Sample	CIRCULATED		
Rm @ Meas. Temp.	2.8 @ 74	@	@
Rmf @ Meas. Temp.	2.8 @ 74	@	@
Rmc @ Meas. Temp.	2.1 @ 74	@	@
Source Rmf   Rmc	MEAS   MEAS		
Rm @ BHT	1.1 @ 182	@	@
Time Since Circ.	7.5 HOURS		
Time on Bottom	18:00		
Max. Rec. Temp.	182 @ T.D.	@	@
Equip.   Location	51943   G.J.		
Recorded By	C. REDMOND		
Witnessed By	C. MC KAY		

Fold Here

Service Ticket No.	271244	API Serial No.	045-7186	PGM Version:	XL v3.05		
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES			RESISTIVITY 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		RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp.	@	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other	
Rmf @ Meas. Temp.	@	ONE	DILT #108481	NA	1.5' SO		
Rmc @ Meas. Temp.	@	ONE	SGRD #108972	NA	1.5' SO		
Source Rmf   Rmc							
Rm @ BHT	1.1 @ 182	@					
Rmf @ BHT	1.1 @ 182	@					
Rmc @ BHT	0.9 @ 182	@					
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	108631	Serial No.		Serial No.	B5022	Serial No.	108736
Model No.	NGRT-A	Model No.		Model No.	SDLT-B	Model No.	DSN II
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	NA	Spacing		Log Type	GAM GAM	Log Type	THERMAL
Type	SCINT			Source Type	CS-137	Source Type	AM241BE
Length	4"	LSA [Y/N]		Serial No.	2189	Serial No.	DSN-80
Distance to Source	12'	FWDA [Y/N]		Strength	1.5 CI	Strength	19 CI
LOGGING DATA							
GENERAL		GAMMA		ACOUSTIC		DENSITY	NEUTRON

Run	Depth	Speed	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale
No.	From	To	Ft/Min	L	R	L	R	Matrix	L	R	Matrix	L	R	Matrix
ONE	TD	CASIN	REC	0	150				30	-10	2.68	30	-10	SAND
					GAPI						GM/CC			

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Remarks:  
 DIL-SDL DSN GR RAN IN COMBINATION.  
 AHV CALCULATED USING 5.5" CASING.

CREW: E. ROBLES, O. GARCIA RIG: CAZA 59  
 THANK YOU FOR CHOOSING H.E.S. GRAND JUNCTION.

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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Current EXCELL-2000 Parameter Values  
 Depth: 0.000  
 Date: 14-Sep-1997 15:24

Mnemonic	Tool	Parameter Description	Value	Units
PERF	DITSHD	PERFORATED INTERVAL	NO	
GR_OK	GAMMA	DO GAMMA CALCULATIONS?	YES	
CASED	SHARED	CASED HOLE?	NO	
CASEOD	SHARED	CASING DIAMETER (OD)	5.5	Inches
MUDWT	SHARED	BOREHOLE FLUID WEIGHT	9.1	Pounds/Gal.
GRSO	GAMMA	GAMMA RAY STANDOFF	0.	Inches
BS	SHARED	BIT SIZE	7.875	Inches
DSN_OK	DSN_II	DO DSN II CALCULATIONS?	YES	
DRILL	DSN_II	TPL - NEUTRON IN SLEEVE?	NO	
BADHOL	DSN_II	DSN BAD HOLE CORRECTION	NO	
NLITH	DSN_II	NEUTRON LITHOLOGY	SAND	
DSNSO	DSN_II	DSN STANDOFF	0.	Inches
DSNTMP	DSN_II	DSN II TEMPERATURE CORRECTION	NONE	
DSNPRS	DSN_II	DSN II PRESSURE CORRECTION	NONE	
SDL_OK	SDL	DO SDL CALCULATIONS?	YES	
BARITE	SDL	ANY BARITE IN MUD?	NO	
AIR	SDL	AIR FILLED BOREHOLE	NO	
RHOFLU	SHARED	FLUID DENSITY	1.	G/CC
RHOMAT	SDL	MATRIX DENSITY	2.68	Grams/CC
CAL_OK	CALSDL	DO CALIPER CALCULATIONS?	YES	
AHVOK	CALSDL	DO ANNULAR VOLUME CALCULATION?	YES	
FACTOK	FACMAN	DO FACT CALCULATIONS?	YES	
AHVOK	FACMAN	DO ANNULAR VOLUME CALCULATION?	YES	
DI_OK	DIND	DO DUAL INDUCTION CALCULATION?	YES	
SG_OK	SGRD	DO SHORT GUARD CALCULATIONS?	YES	
XPHLOC	XP_RWA	CROSSPLOT SELECTION FOR XPHI	XPLT	
ARCHA	XP_RWA	ARCHIE A	0.62	
ARCHM	XP_RWA	ARCHIE M	2.15	
FSEL	XP_RWA	POROSITY SELECTION FOR F	XPOR	

MAIN LOG 2"=100'

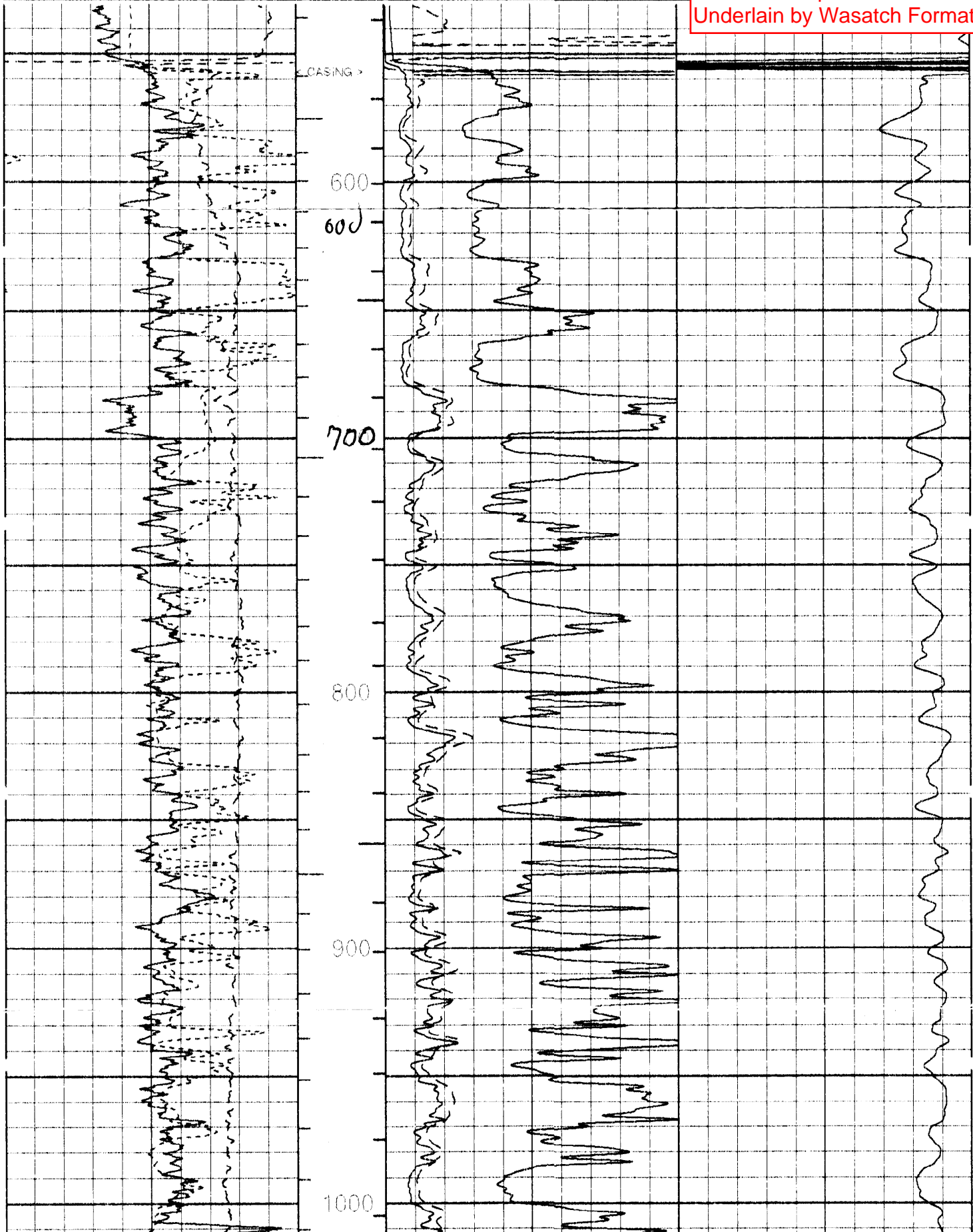
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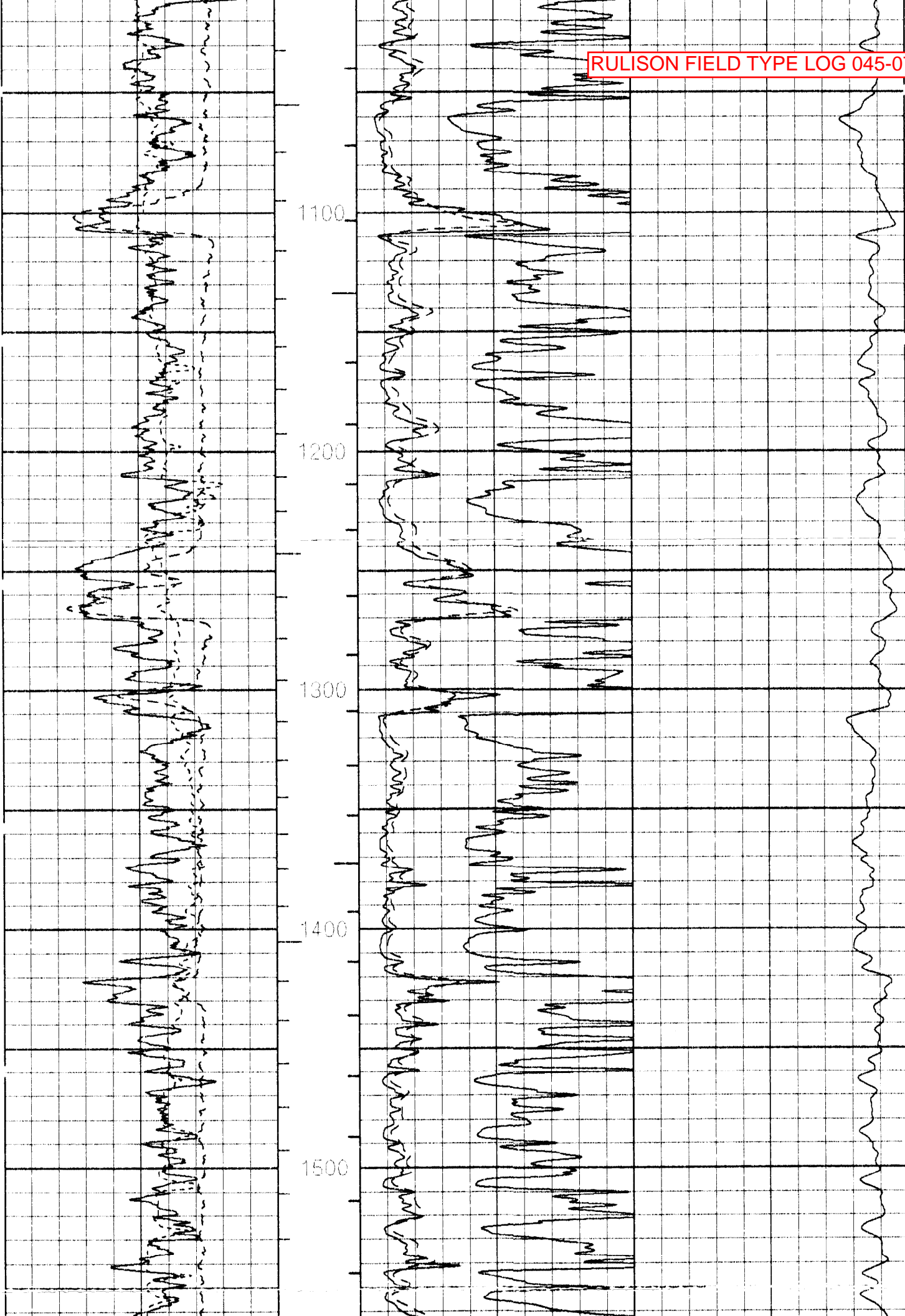
GAMMA RAY	4HV	DEEP RES	DEEP COND
APICOUNTS 150	FT3 0	OHMM 100 500	MMHO 0
CALIPER	BHV	AMP SGRD	
INCHES 14	FT3 0	OHMM 20	
SP	1.600	SH GUARD R	
MV 120	Ft 0	OHMM 100	

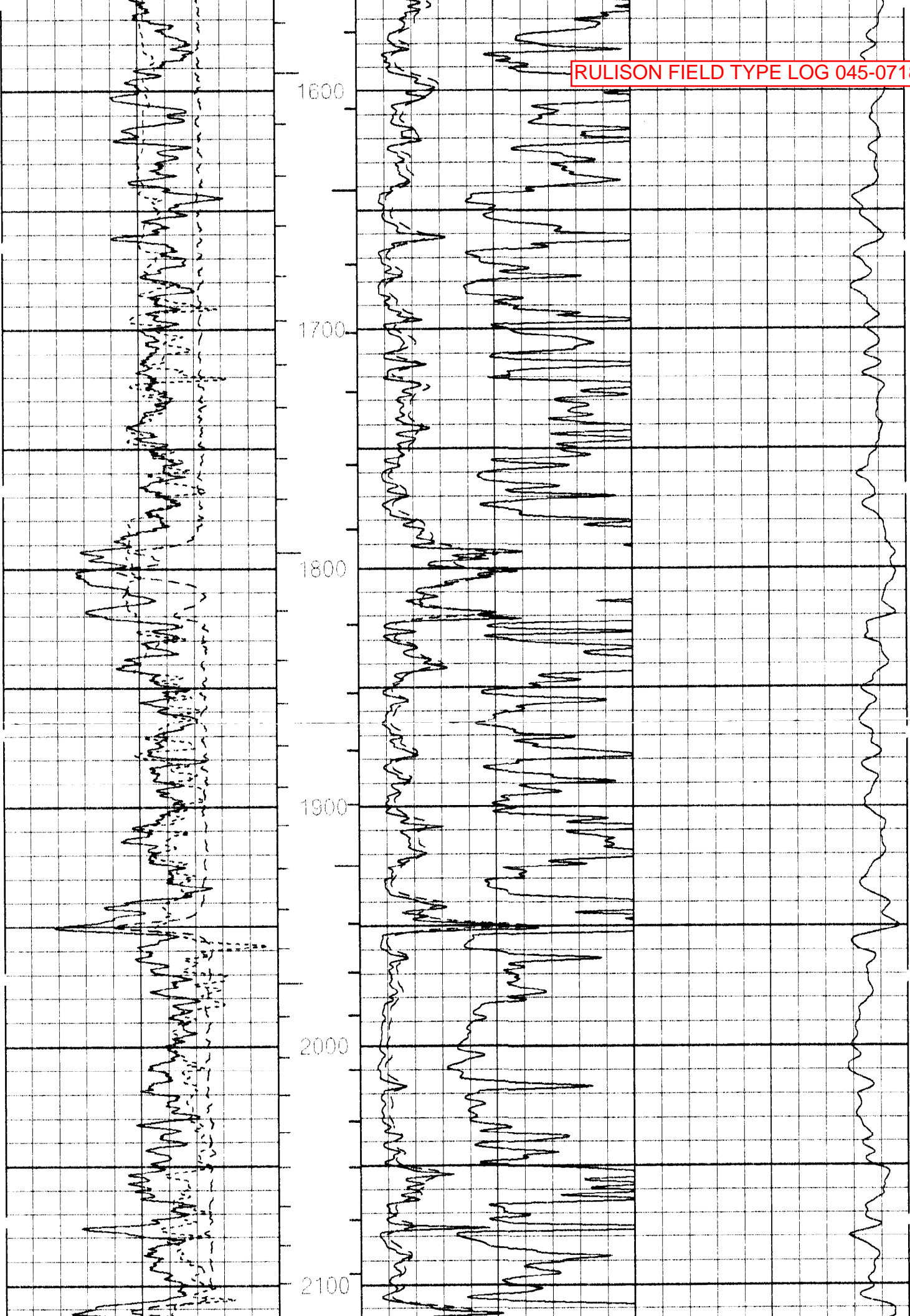
RULISON FIELD TYPE LOG 045-07186

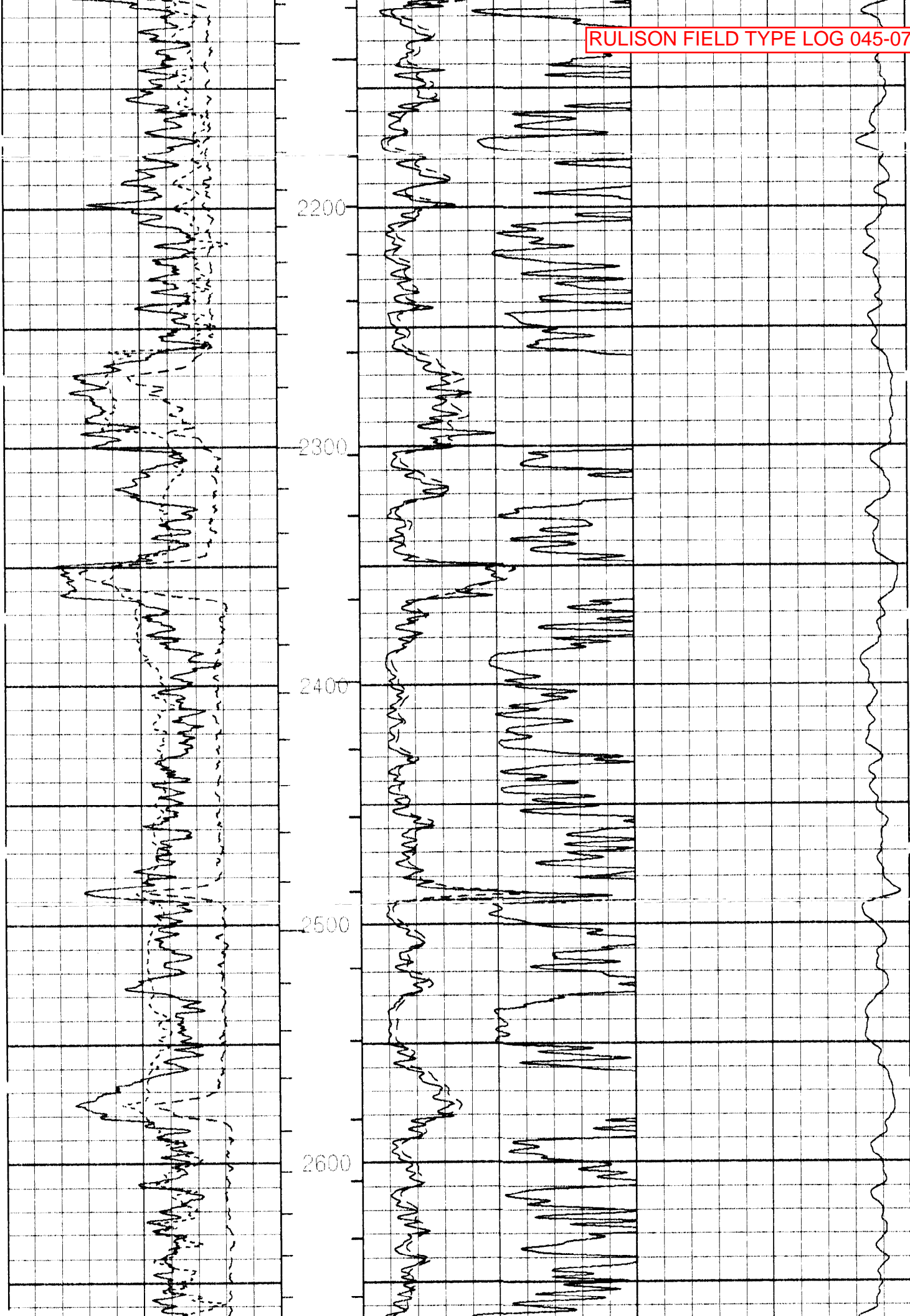
Landslide Deposit at Surface  
Underlain by Wasatch Formation



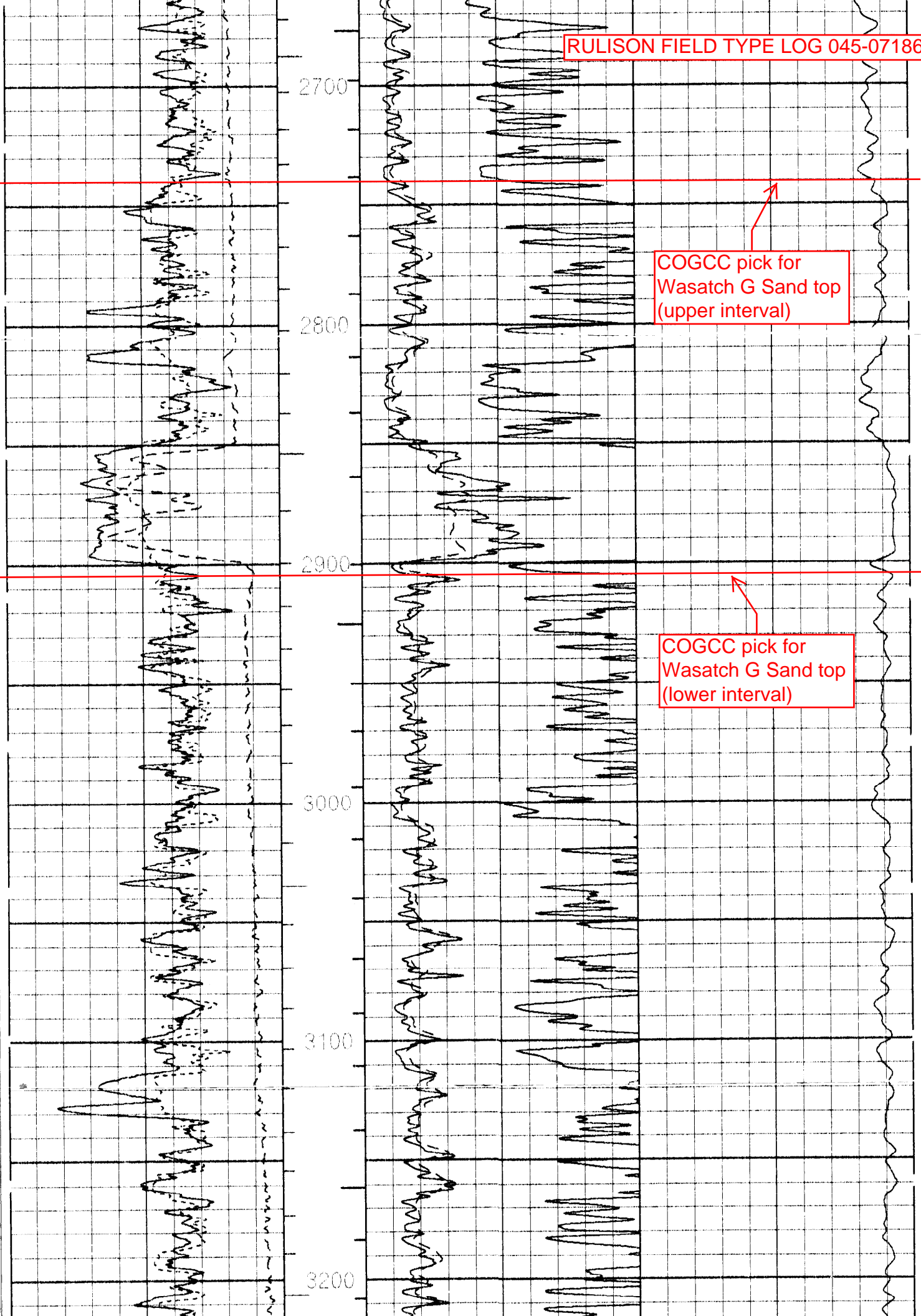






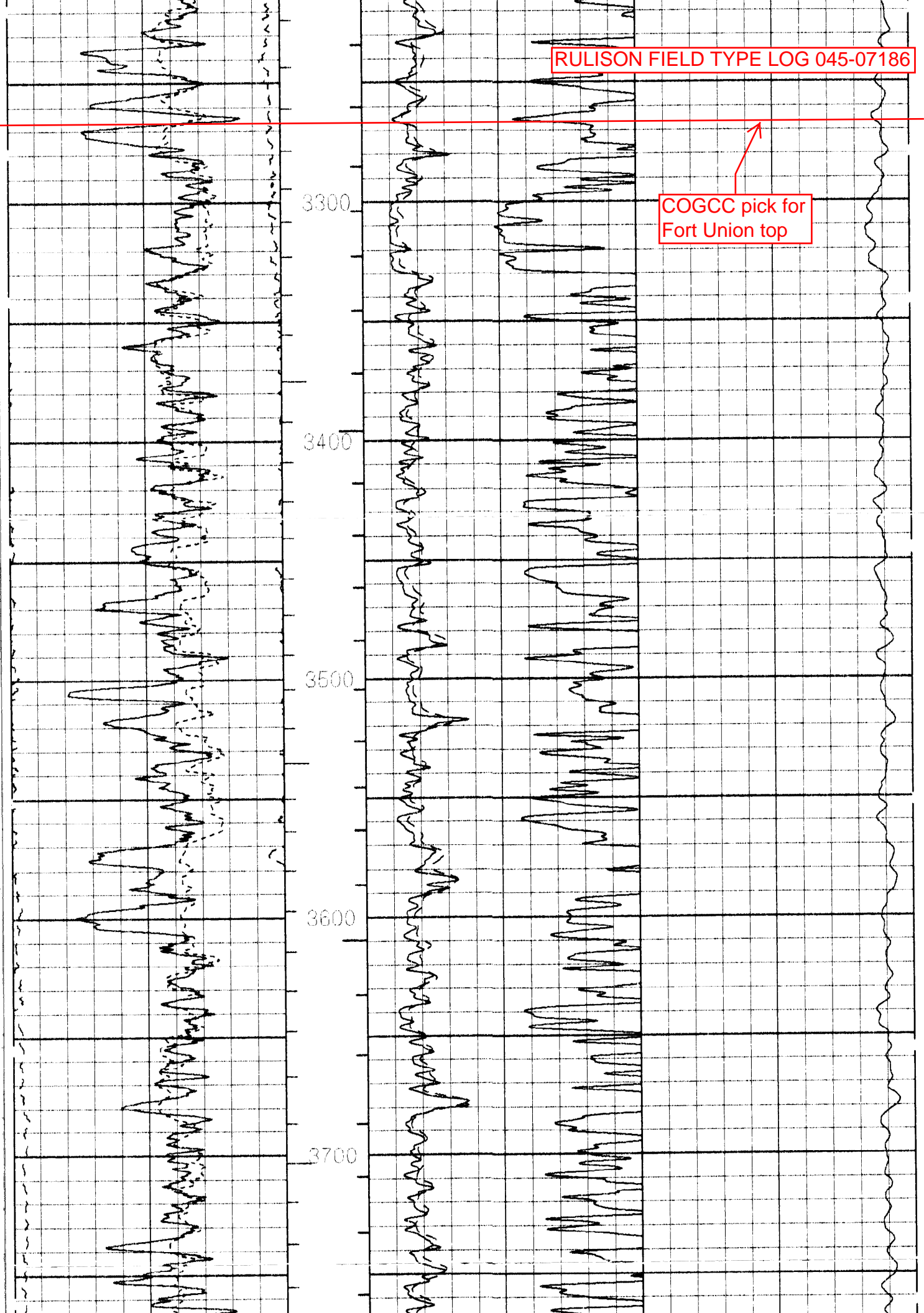






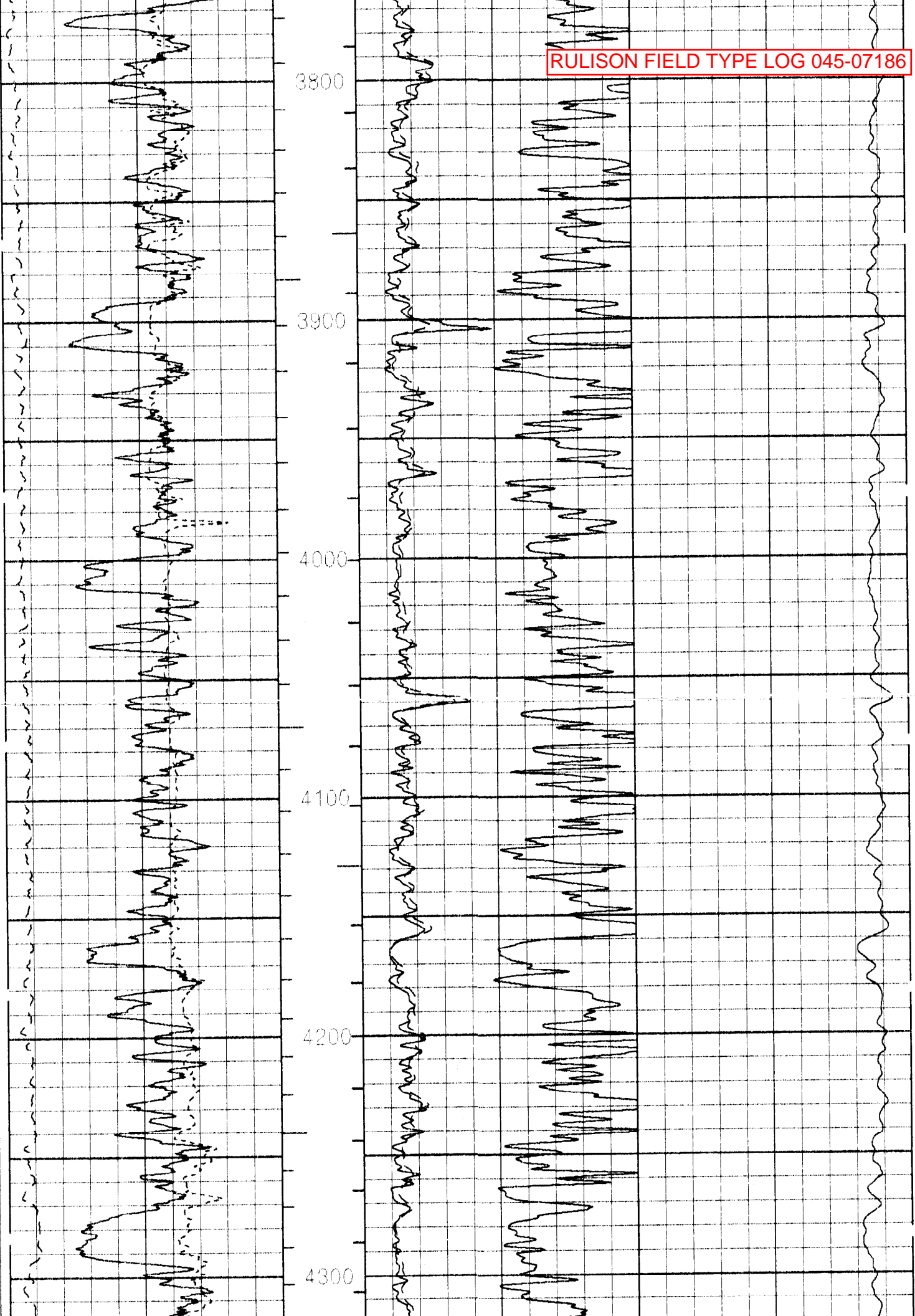
COGCC pick for  
Wasatch G Sand top  
(upper interval)

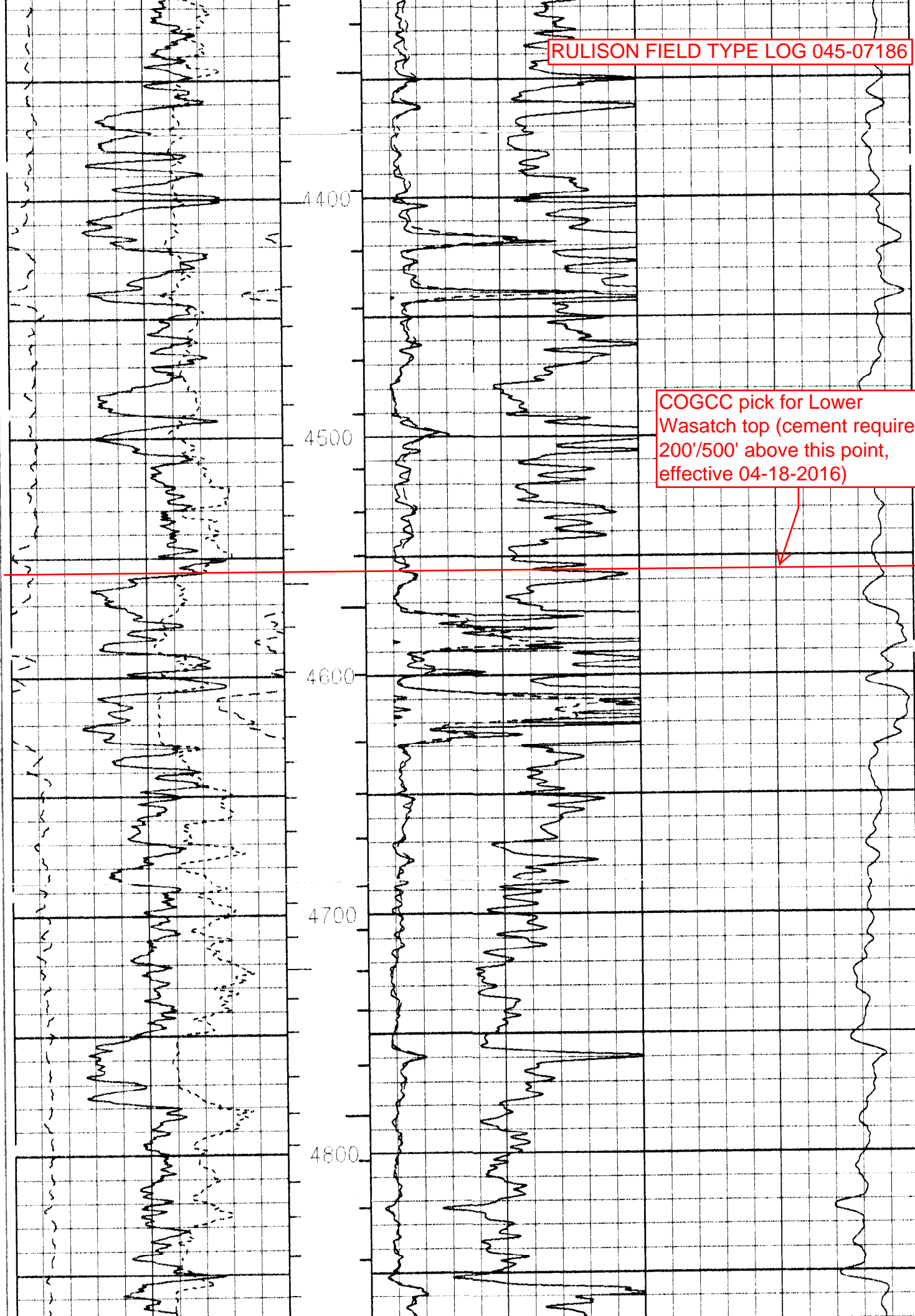
COGCC pick for  
Wasatch G Sand top  
(lower interval)



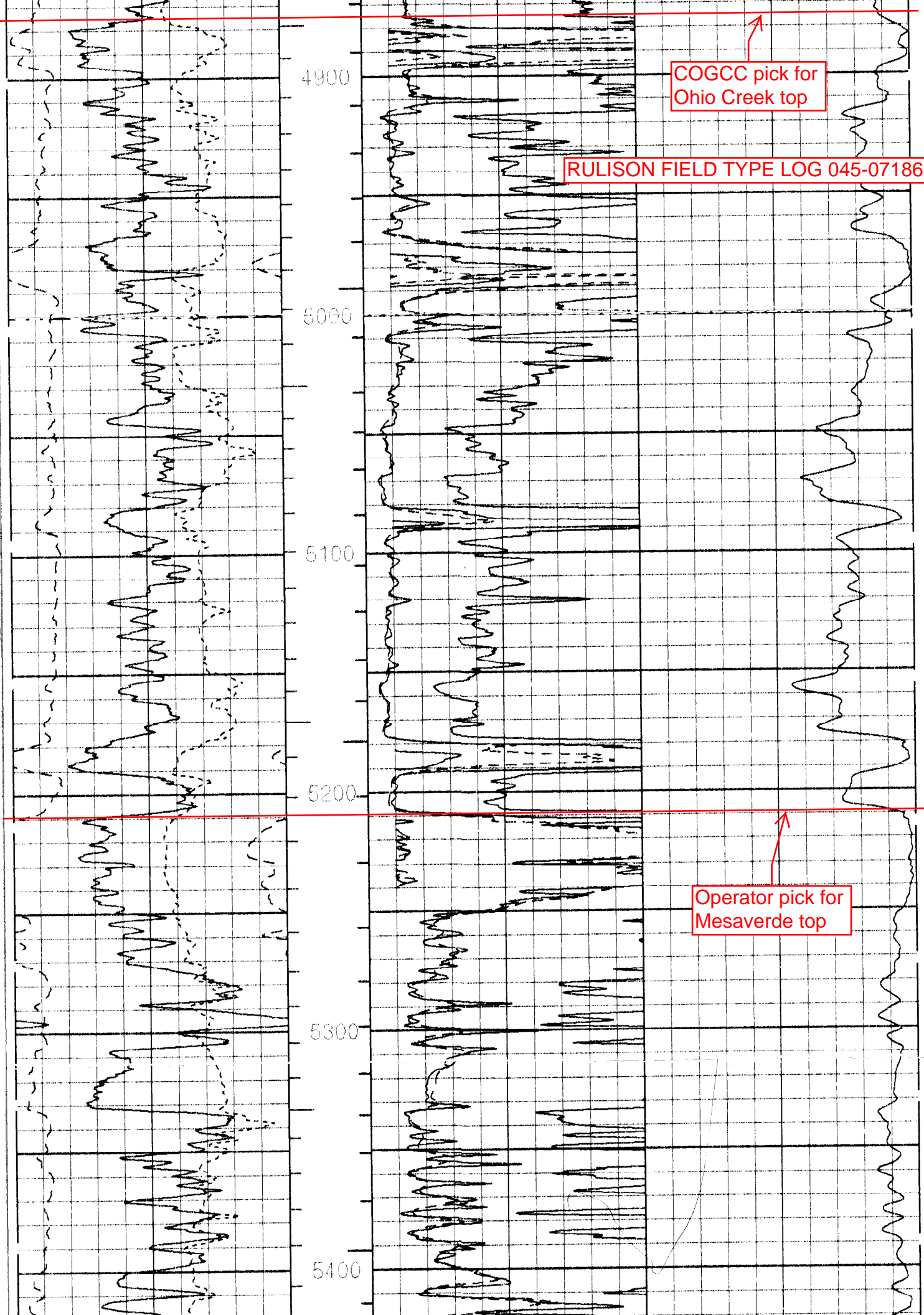
COGCC pick for Fort Union top







COGCC pick for Lower Wasatch top (cement required 200'/500' above this point, effective 04-18-2016)

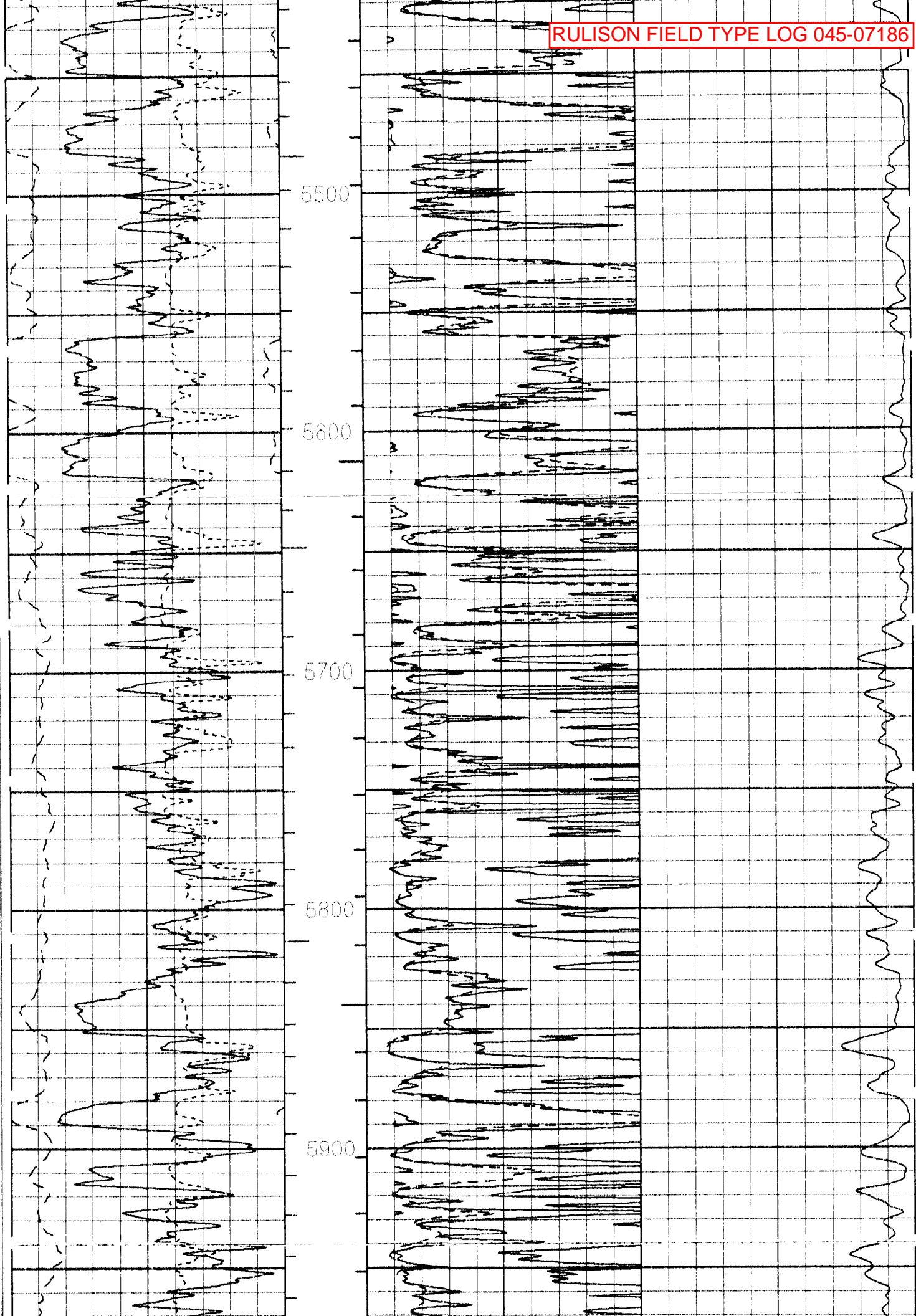


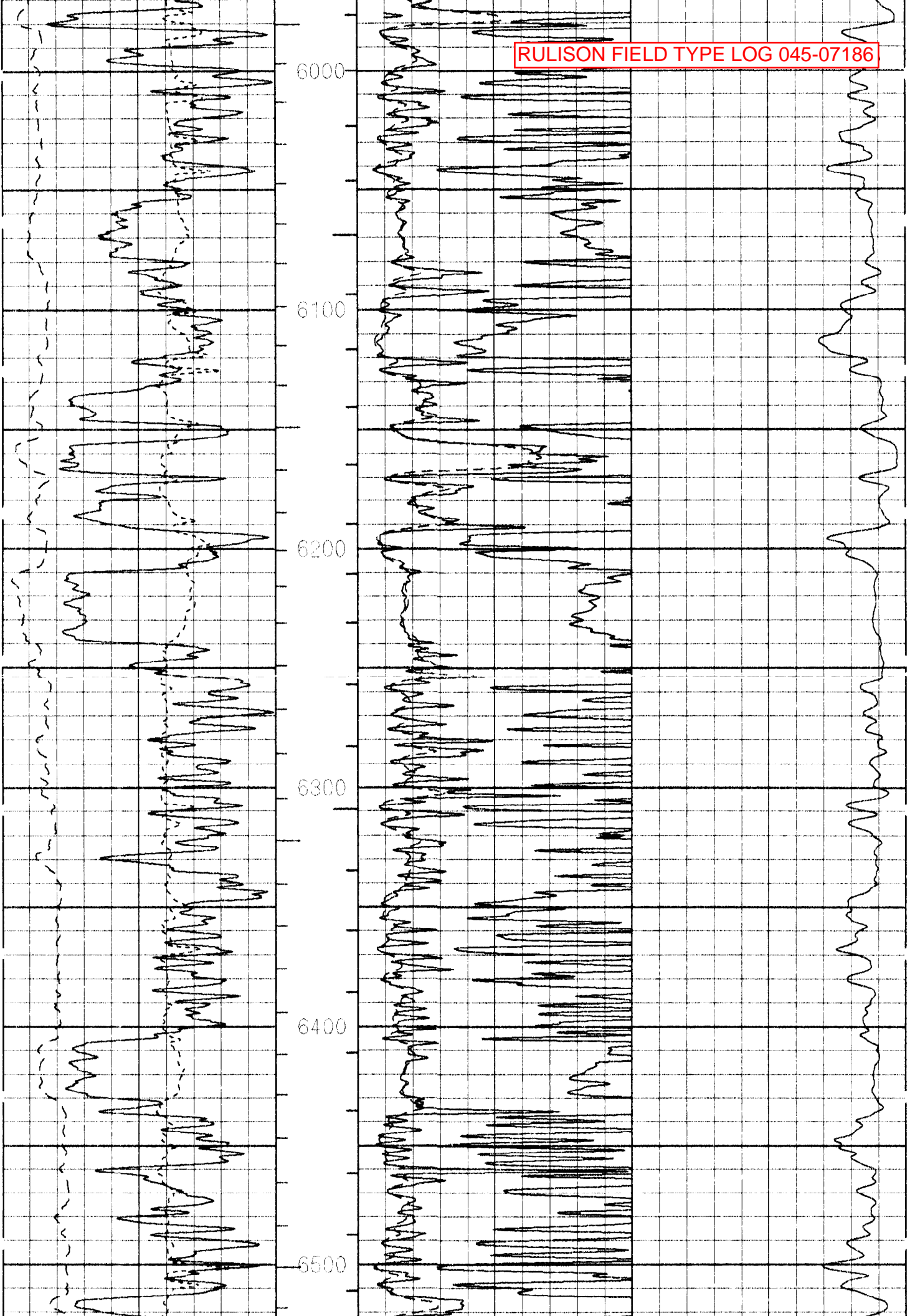
COGCC pick for Ohio Creek top

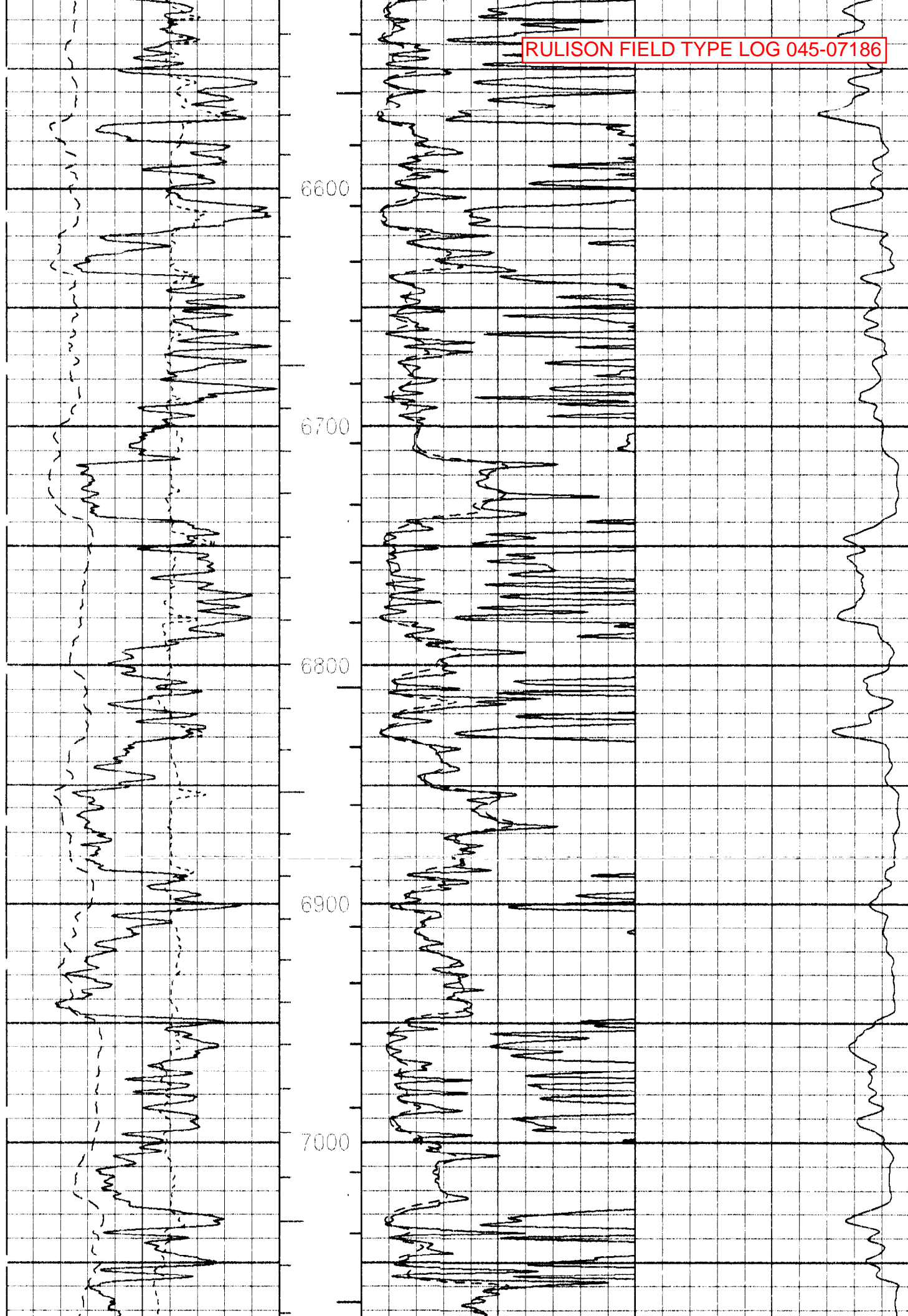
RULISON FIELD TYPE LOG 045-07186

Operator pick for Mesaverde top

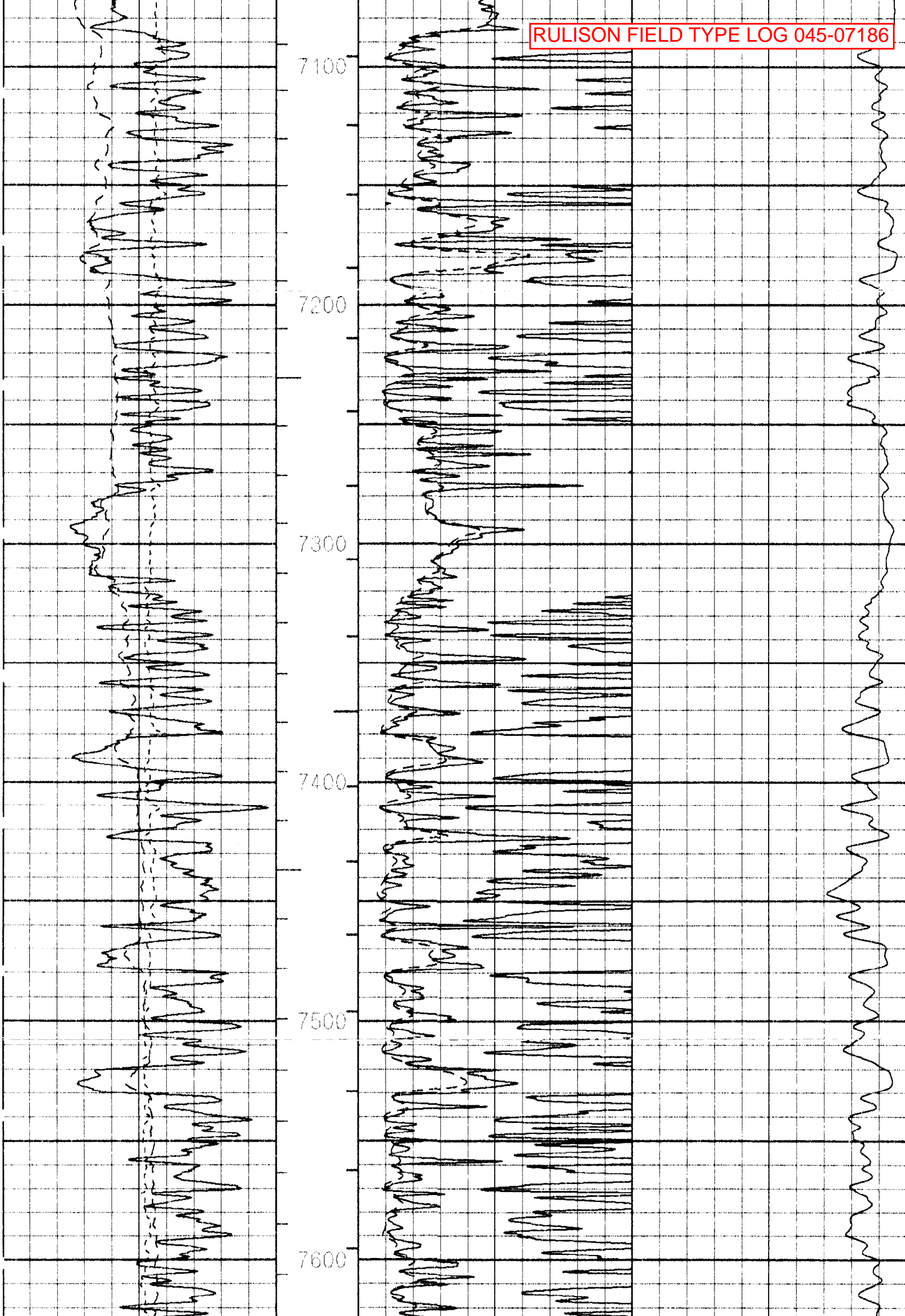


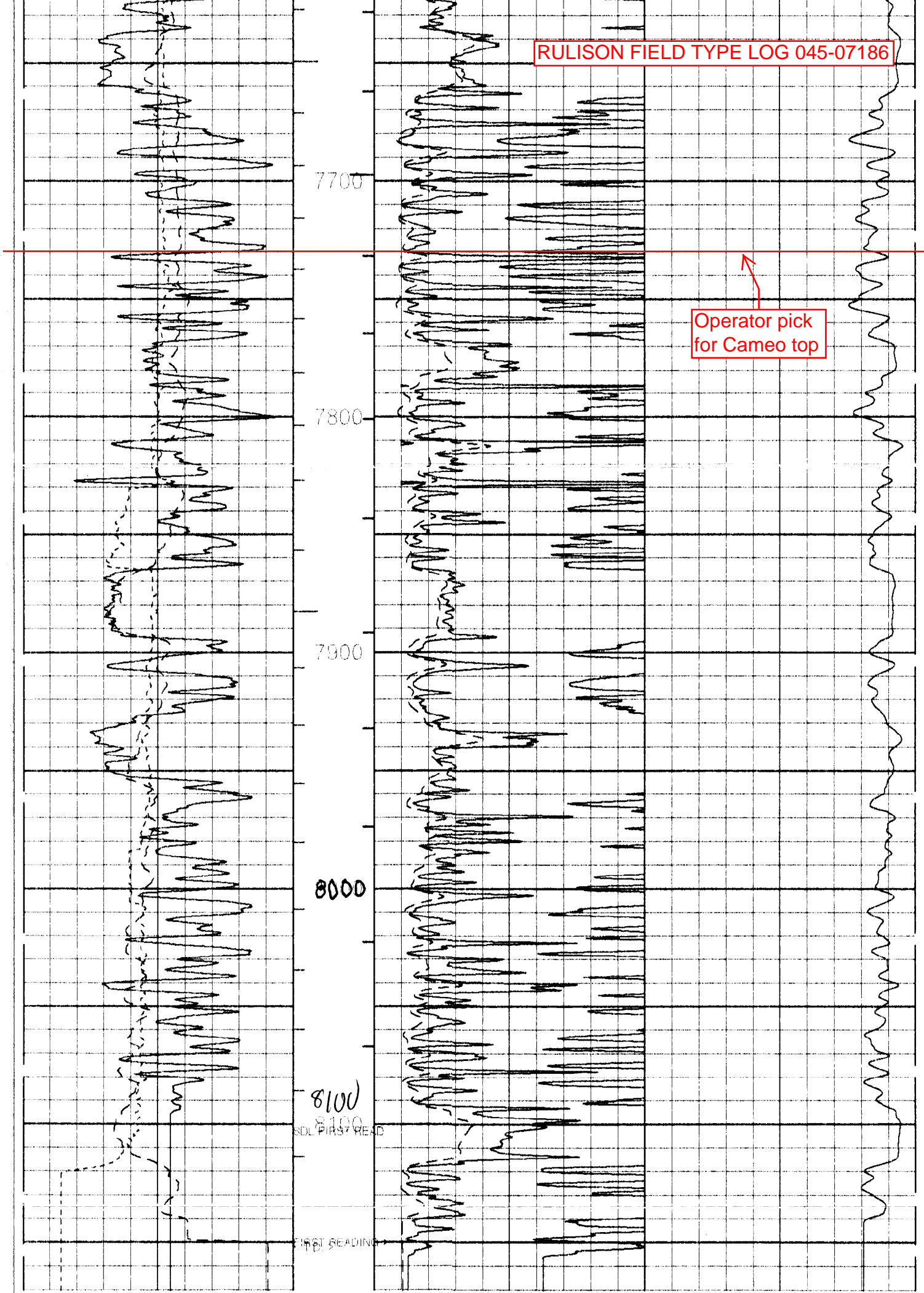












Operator pick  
for Cameo top

7700

7800

7900

8000

8100

8100  
SDL FIRST READ

FIRST BEADING

20	SP MV	120	1600 Ft	0	SH GUARD R OHMM	100	
4	CALIPER INCHES	14	BHV FT3	0	AMP SGRD OHMM	20	
0	GAMMA RAY API COUNTS	150	AHV FT3	0	DEEP RES OHMM	100	DEEP COND MMHO 0



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Version No: 3.05 : hc.2.1

Data File: 0914\_1513\_s2100.3.c/s

Control File: /field\_data/data2/2INDIL.spc

Raster File: 0914\_1513\_s2100.2INDIL

Top Depth: 529.50

Bottom Depth: 8170.00

Plot Time: 09-14-97 19:40:44

Database Time: 09-14-97 17:53:11

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