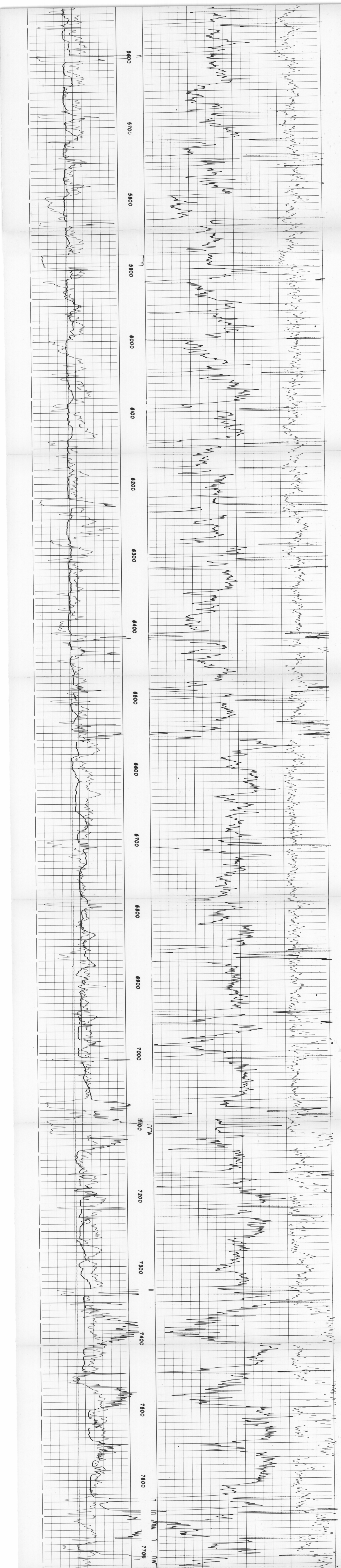
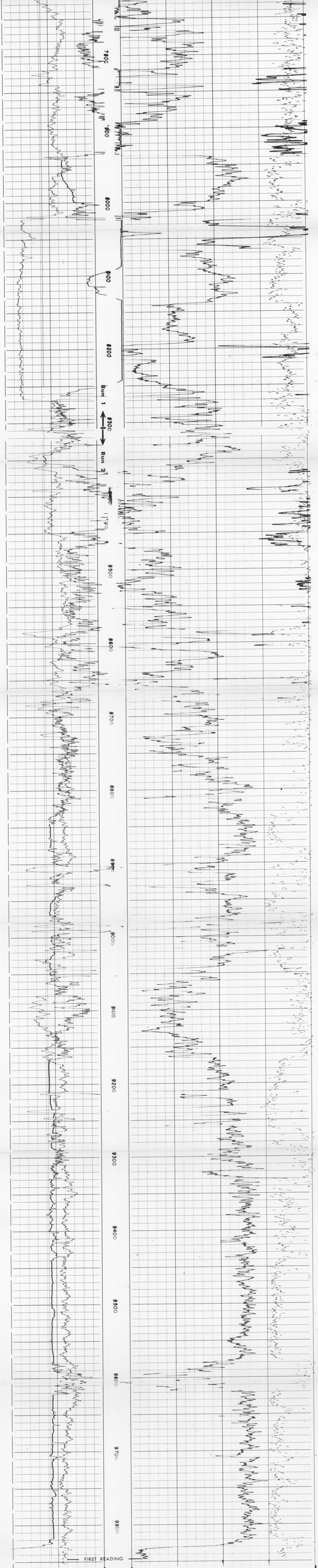




SWS-1382-A

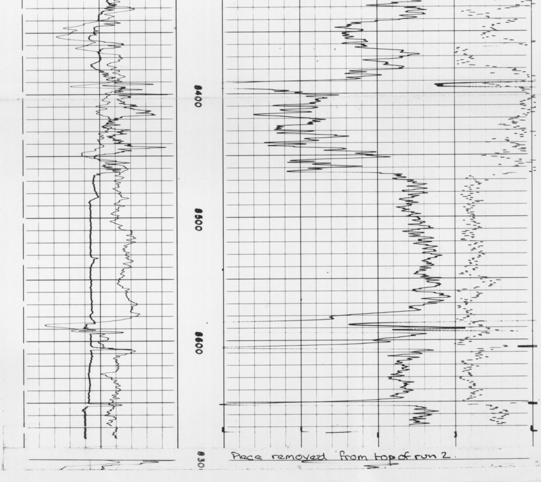
0 150		2.0 2.5 3.0
GAMMA RAY API UNITS	2"	**BULK DENSITY** GRAMS/CC.
8 18		−.25 0 +.25 **CORRECTION** GRAMS/CC.
CALIPER HOLE DIAM. IN INCHES	DEPTHS	

COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

Rm 0.6 @ 198 °F
BHT 198 °F

SCHL. FR 9832
SCHL. TD 9834
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0

Piece removed from bottom of run 1



Piece removed from top of run 2

338091

OR-334

Enclosure 12

SCHLUMBERGER

COMPENSATED FORMATION DENSITY LOG
Gamma-Gamma

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

Location: LAT.: 39° 34' 22.8"S
LONG: 145° 31' 35.7"E
Sec. Twp. Rge.

Other Services: IES, BHC, CDM, FIT, CST, MLL.

Permanent Datum: MSL ; Elev.: 0
Log Measured From KB, 100 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 100
D.F. 99
G.L. 0

Date	1 JULY 70	11 JULY 70	
Run No.	1 5"	2 5"	
Type Log			
Depth—Driller	8663	9845	
Depth—Logger	8659	9834	
Bottom logged interval	8657	9832	
Top logged interval	2952	8300	
Type fluid in hole	Q. BROXIN	LIGNOSULPHONATE	
Salinity, PPM Cl.	3100	3050	
Density	10.4	10.3	
Level	TOP RISER	RISER	
Max rec. temp., deg F.	198	250	
Operating rig time	8 HOURS	4½ HOURS	
Recorded by	GASTALDY	GASTALDY	
Witnessed by	HICKS	BLACK	

RUN	BORE-HOLE RECORD			CASING RECORD			
No.	Bit	From	To	Size	Wgt.	From	To
1	12¼	3002	8663	13 3/8		0	2952
2	12¼	3002	9845	13 3/8		0	2952

FOLD HERE

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

EQUIPMENT DATA

Run No.	PG P-D	PGD-D	PGH-A	PGS-E	Source No.	SFT-106	SGH	Logging Unit	Location
1	701	441	320	710	2625	704		2072	SAL
2	701	441	320	710	2625	704		2072	SAL
3									

CALIBRATION DATA

Run No.	Gamma Ray			FDC — Before Log — ACPS		FDC — After Log — ACPS	
	API Scale	Background CPS	Total CPS	P_1	P_2	P_1	P_2
1	200	25	440	348	604	348	604
2	200	15	430	340	600	340	600
3							

LOGGING DATA

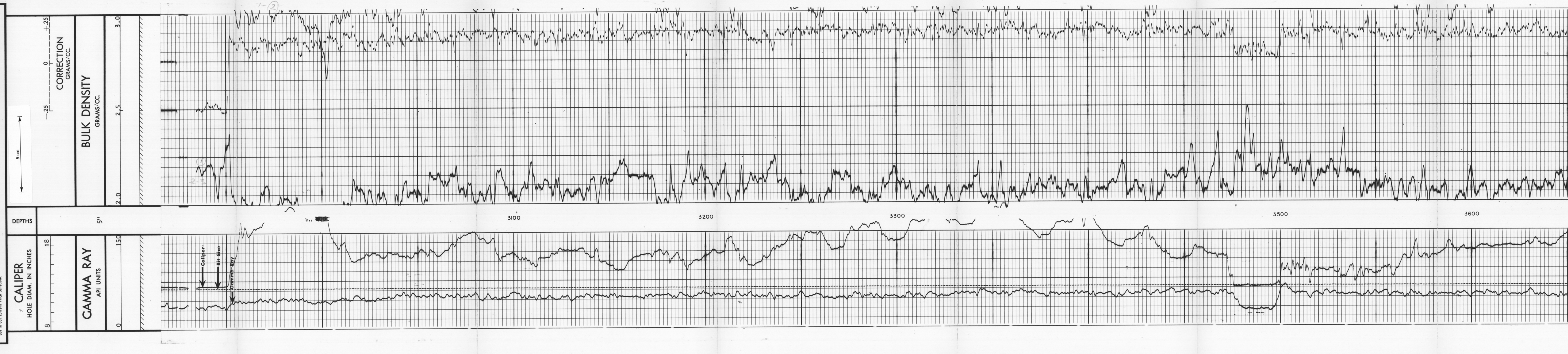
Run No.	General				Gamma Ray	FDC Selectors			
	Depths From	Depths To	Speed Ft./Min.	Tc	API Scale	Liquid Density	Grain Density	Hole Fluid	Porosity Scale
1	8657	2952	30	2	150				
2	9832	8300	30	2	150				

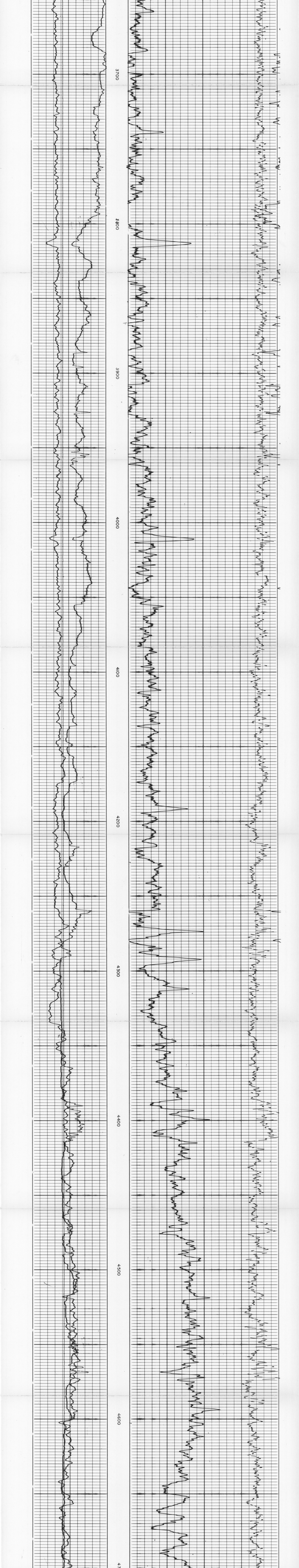
MUD DATA

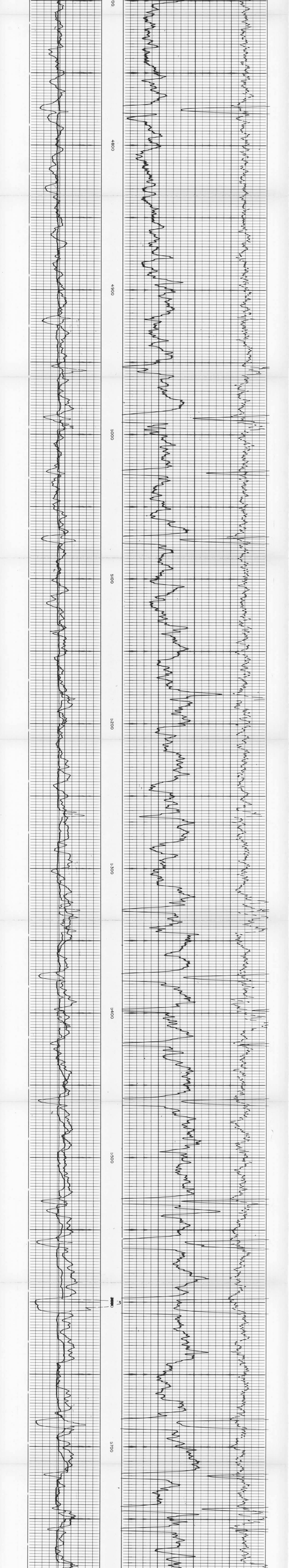
Run No.	Rm. @ °F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @ °F	Solids, Av. Sp. Gr.
1	0.64 @ 198 °F				@ °F	
2	0.66 @ 198 °F				@ °F	
3	@ °F				@ °F	

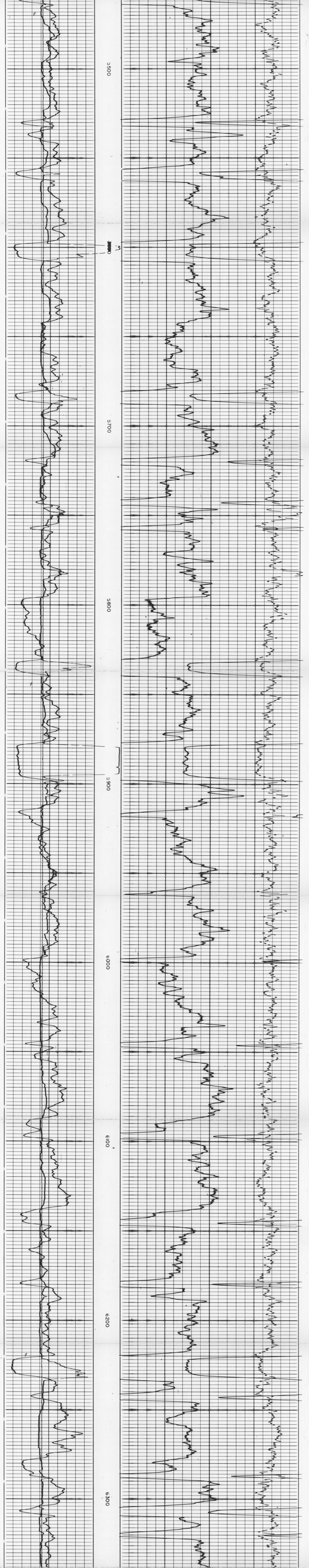
Remarks: RUN 1 CALIPER NOTSHOWN ON REPEAT RUN. STOPPED WORKING AT END OF RUN.

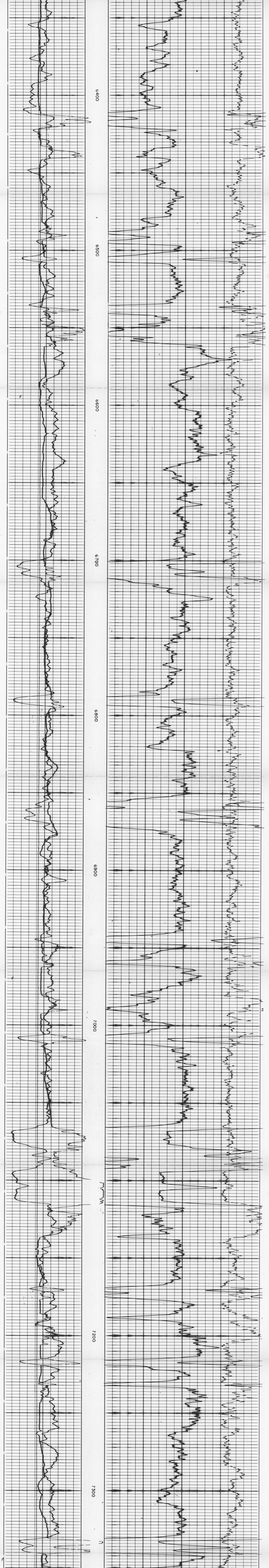
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

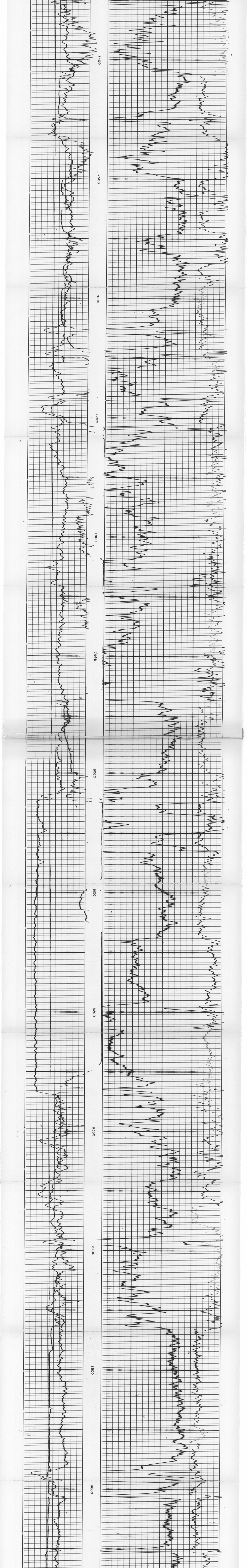


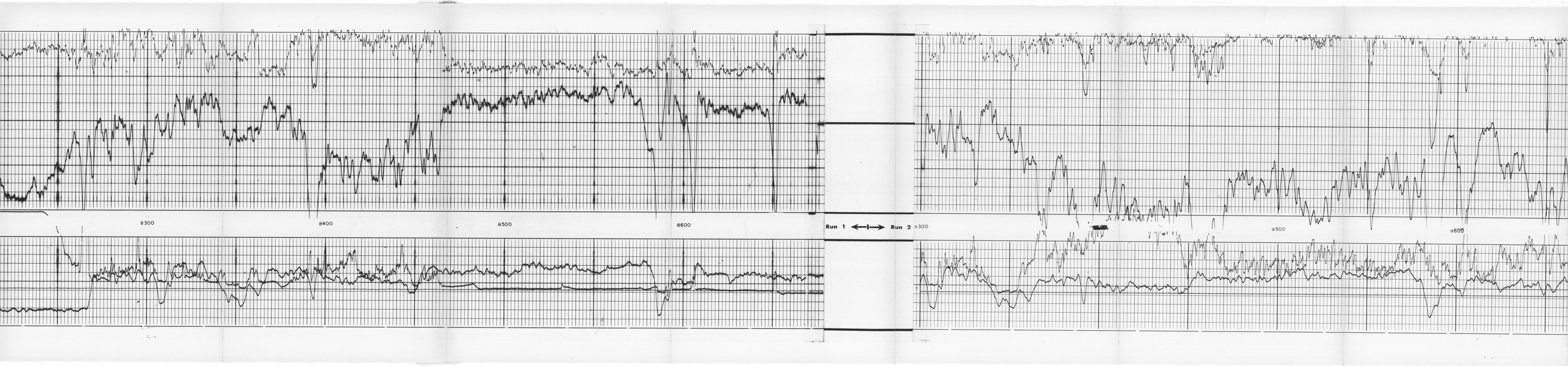


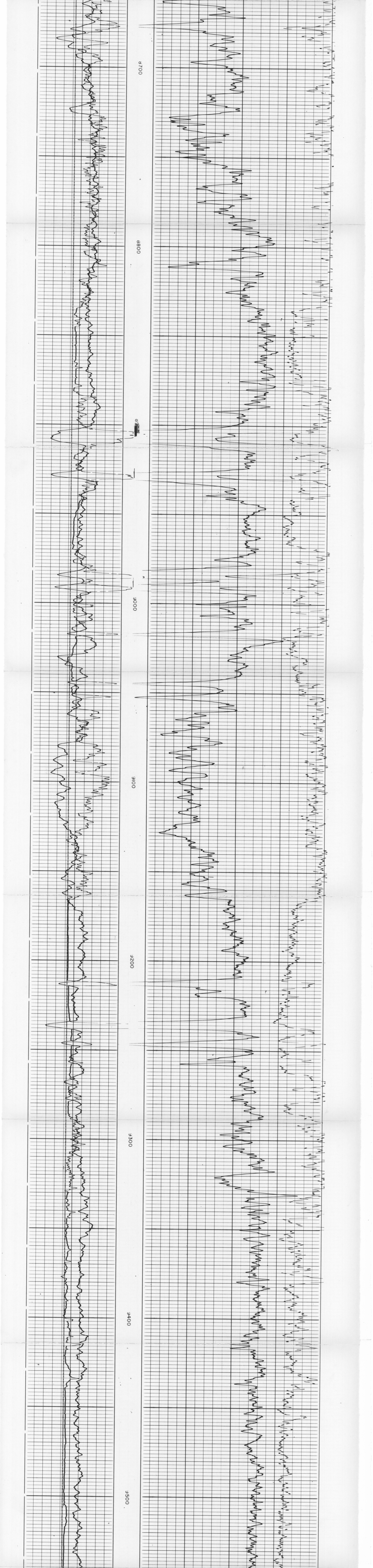


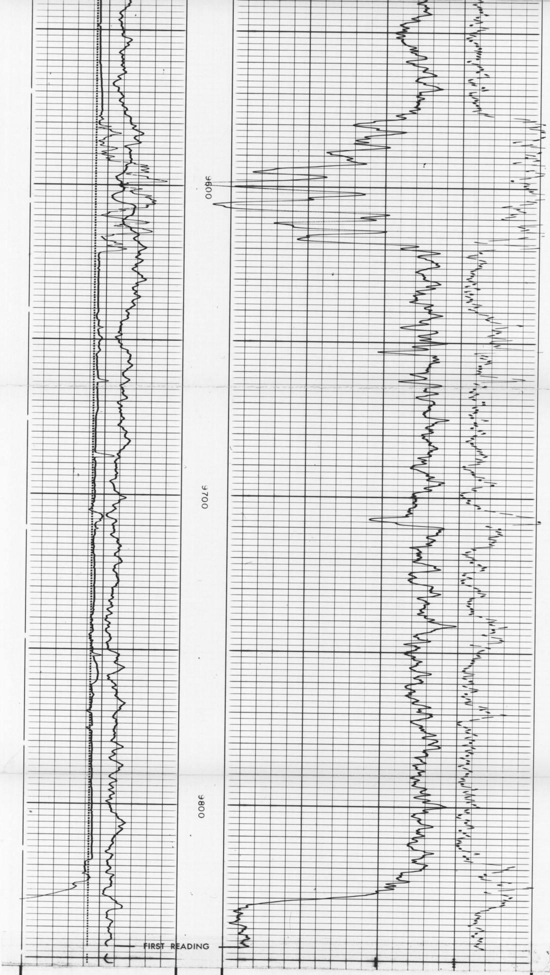

5500
5700
5800
5900
6000
6100
6200
6300


6400
6500
6600
6700
6800
6900
7000
7200
7300


7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400
8500
8600







0 — 150		2.0 — 2.5 — 3.0
GAMMA RAY API UNITS		**BULK DENSITY** GRAMS/CC.
8 — 18	5"	−.25 — 0 — +.25 **CORRECTION** GRAMS/CC.
CALIPER HOLE DIAM. IN INCHES	DEPTHS	

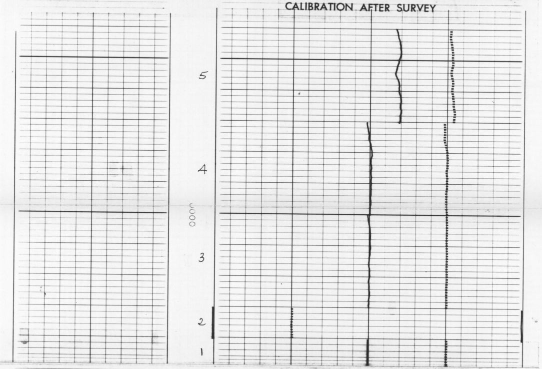
COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

Rm 0.66 @ 198 °F
BHT 198 °F

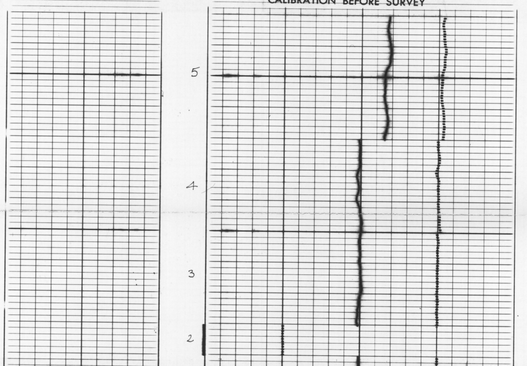
SCHL. FR 9832
SCHL. TD 9834
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0

CALIBRATION DATA

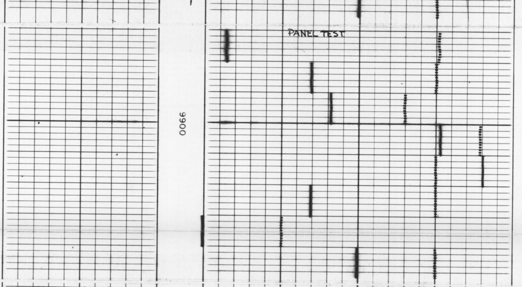
CALIBRATION AFTER SURVEY



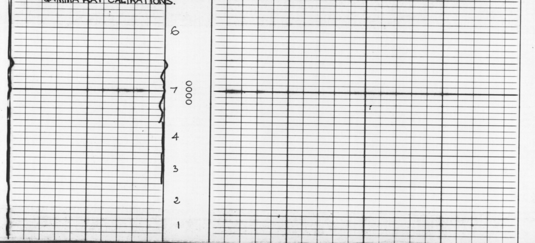
CALIBRATION BEFORE SURVEY



PANEL TEST.



GAMMA RAY CALIBRATIONS.

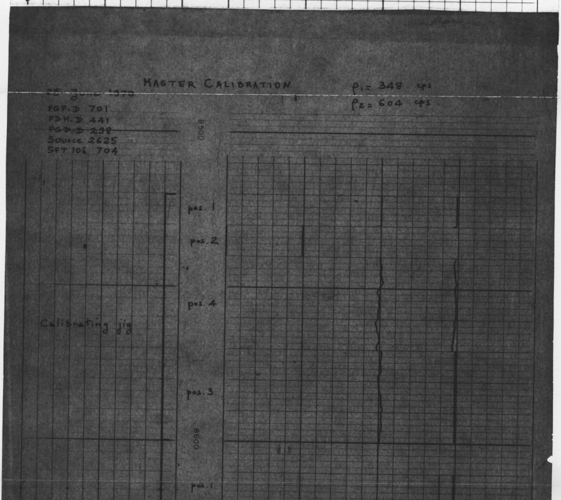


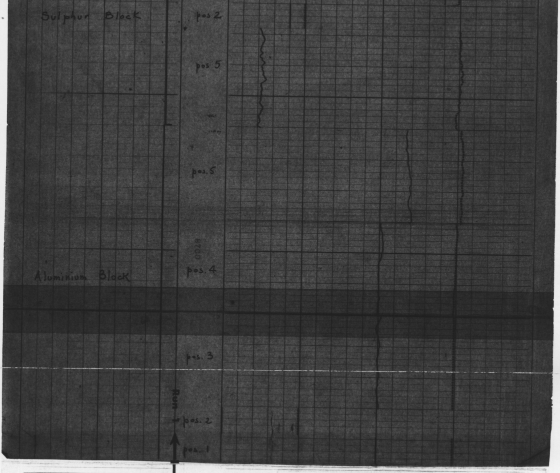
MASTER CALIBRATION

25 June 1970
PGP-D 701
PDH.D 441
PGD.D 238
Source 2625
SFT 106 704

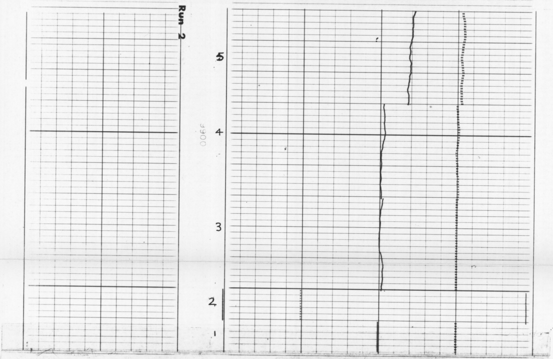
$\rho_1 = 348$ cps
$\rho_2 = 604$ cps

Calibrating jig

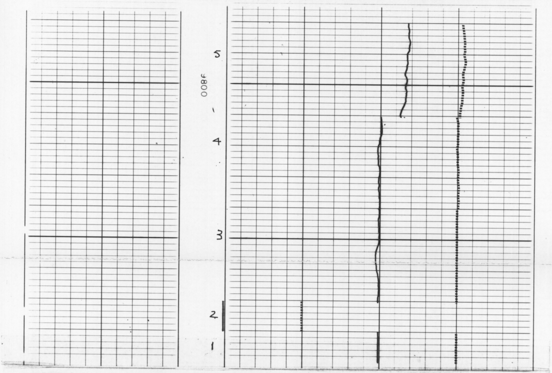




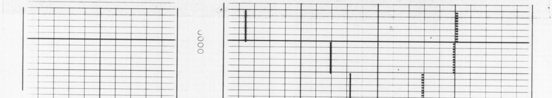
CALIBRATION AFTER SURVEY

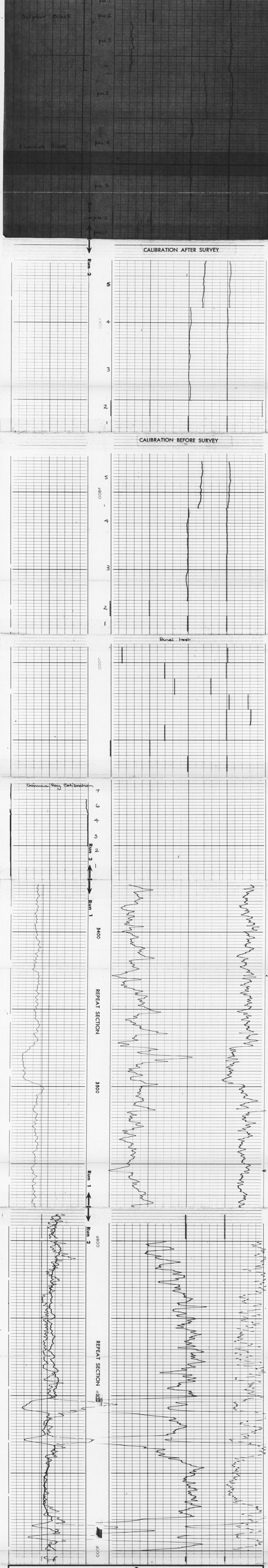


CALIBRATION BEFORE SURVEY



Panel test.





CALIBRATION DATA

COMPANY ESSO AUSTRALIA	Rm 0.66 @ 198 °F		SCHL. FR 9832
	BHT 198 °F		SCHL. TD 9834
WELL CORMORANT 1			DRLR TD 9845
			Elev:
FIELD WILDCAT			KB 100
			DF 99
COUNTY AUSTRALIA	STATE TASMANIA		GL 0

5 cm

338092

OR- 334 Enclosure 13

SCHLUMBERGER MICROLATEROLOG

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO STANDARD OIL (AUSTRALIA) LTD

WELL CORMORANT, 1

FIELD WILDCAT

COUNTY AUSTRALIA STATE TAS

LOCATION 145° 31' 35.7" E
39° 34' 22.8" S

Sec. Twp. Rge.

Other Services:
IES. FDC CR. BHC.
CDM. CST. FIT.

Permanent Datum: MSL, Elev. 0
Log Measured From KB, 100 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 100
D.F. 99
G.L.

Date	July 10.1970			
Run No.	1			
Depth—Driller	9845			
Depth—Logger	9837			
Btm. Log Interval	6600			
Top Log Interval	4200			
Casing—Driller	2952@	@	@	@
Casing—Logger	2952			
Bit Size	12"1/4			
Type Fluid in Hole	Lignosulfonate			
Dens. | Visc.	10.3 | 41			
pH | Fluid Loss	10 | 9.2 ml	ml	ml	ml
Source of Sample	Circulation			
R_m @ Meas. Temp.	2.03 @ 64 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.8 @ 63 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	0.7 @ 198 °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	press | chart.			
R_m @ BHT	0.66 @ 198 °F	@ °F	@ °F	@ °F
Time Since Circ.	9 hrs.			
Max. Rec. Temp.	160° °F	°F	°F	°F
Equip. | Location	| SAL			
Recorded By	GASTALDY			
Witnessed By	BLACK			

FIELD PRINT

FOLD HERE

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

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth—Driller			
Type Fluid in Hole			
Dens. | Visc.			
pH | Fluid Loss			ml
Source of Sample			
R_m @ Meas. Temp.	@ °F	@ °F	
R_{mf} @ Meas. Temp.	@ °F	@ °F	
R_{mc} @ Meas. Temp.	@ °F	@ °F	
Source: R_{mf} | R_{mc}			
R_m @ BHT	@ °F	@ °F	
R_{mf} @ BHT	@ °F	@ °F	
R_{mc} @ BHT	@ °F	@ °F	

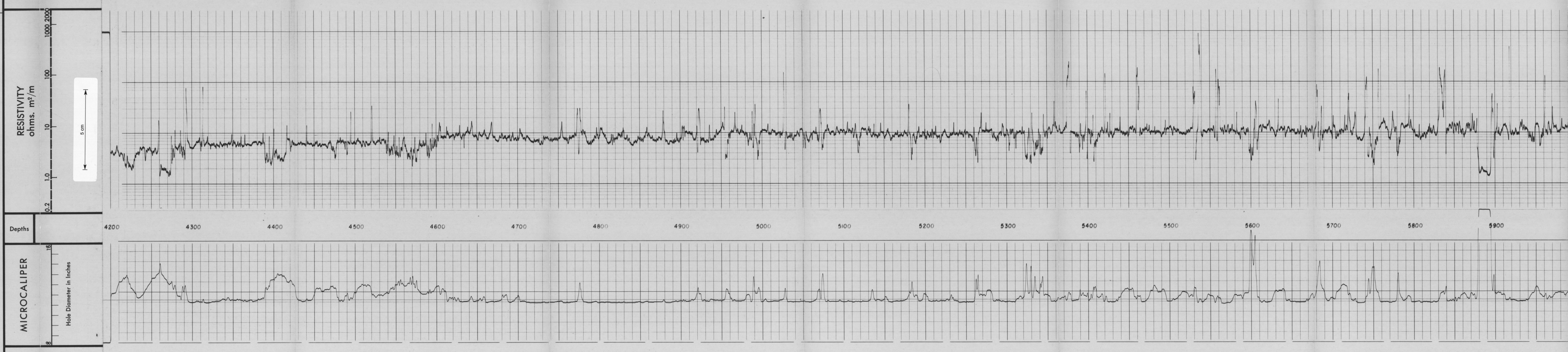
Scale Changes

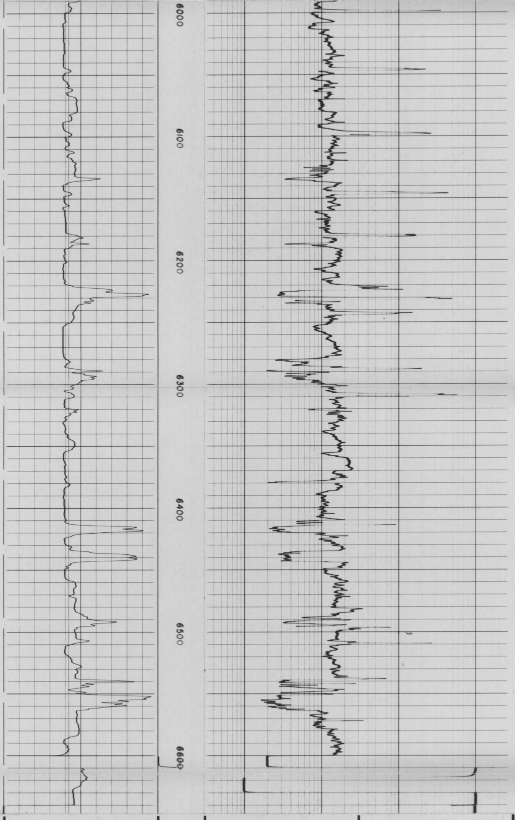
Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Pos.	Other

C.D.: S.O.:
Equip. Used: CART. No. MPC.D
PANEL No. MPP.B 201
SONDE No. MPS.C
FUNCTION PANEL -





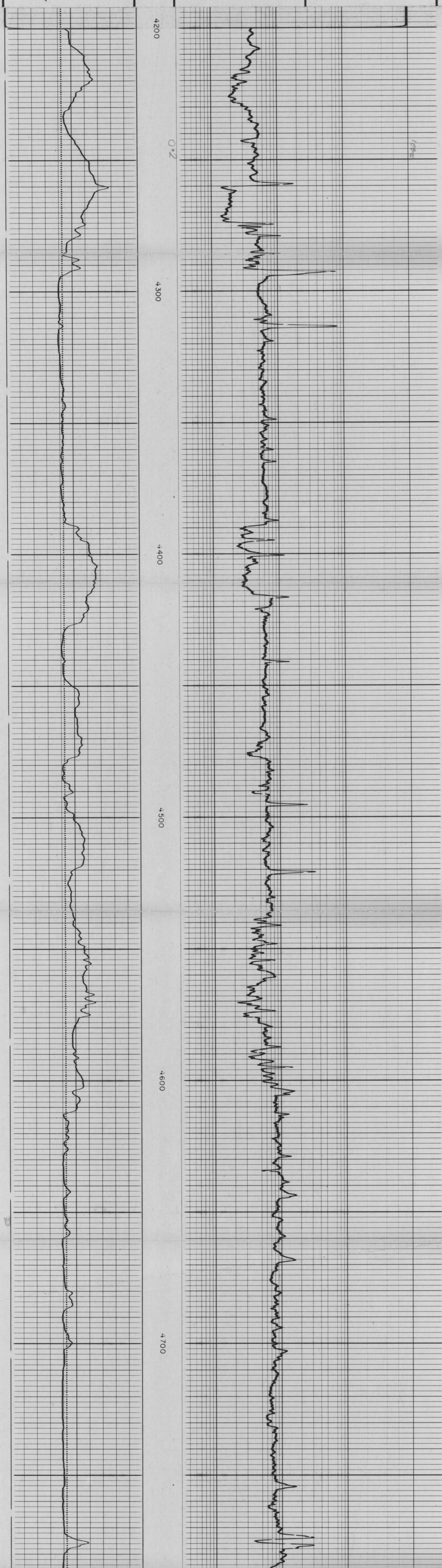
8 — Hole Diameter in Inches — 18		0.2 1.0 10	100 1000 2000
MICROCALIPER	DEPTHS	RESISTIVITY ohms. m²/m	RESISTIVITY ohms. m²/m

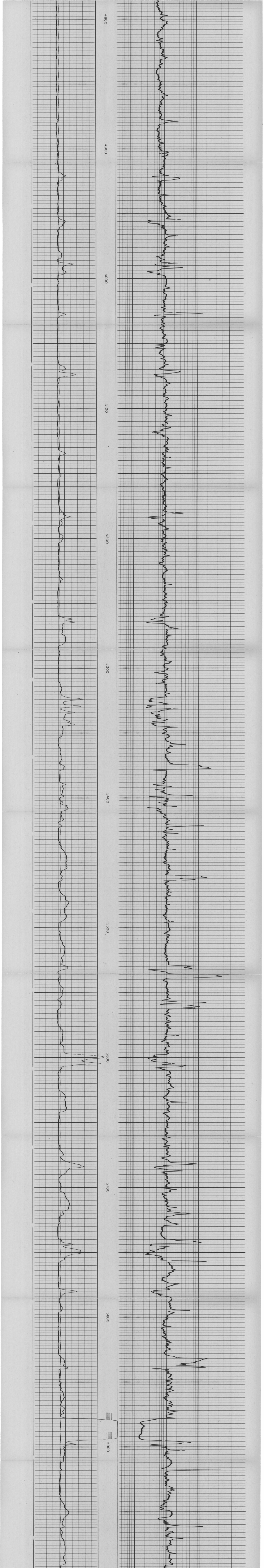
COMPANY **ESSO STANDARD OIL** (AUSTRALIA) LTD Rm 2.03 @ 64 °F SCHL FR 6600
WELL CORMORANT 1 Rmf 1.8 @ 63 °F SCHL TD 9837
Rmc 0.7 @ 198 °F DRLR TD 9845
BHT 198 °F Elev:
FIELD **WILDCAT** KB 100
DF 99
COUNTY AUSTRALIA STATE TAS GL

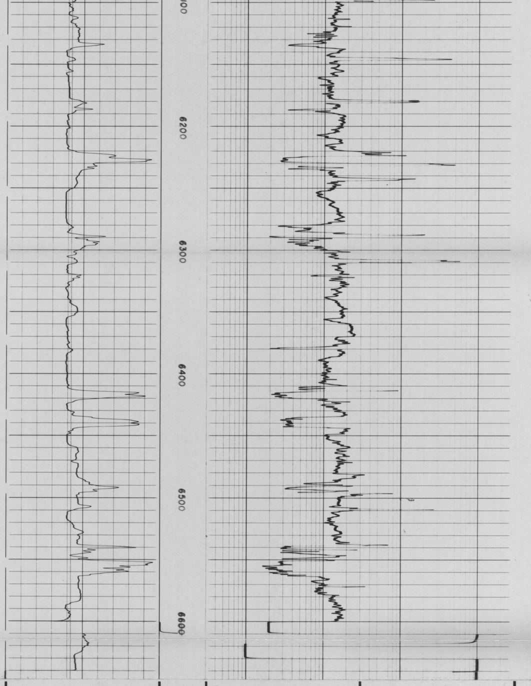
DETAIL LOG

5″ = 100′

MICROCALIPER	DEPTHS	RESISTIVITY ohms. m²/m	RESISTIVITY ohms. m²/m
8 — Hole Diameter in Inches — 18		0.2 1 10	100 1000 2000







8 18

Hole Diameter in Inches

MICROCALIPER

DEPTHS

0.2 1.0 10 100 1000 2000

RESISTIVITY ohms. m²/m

RESISTIVITY ohms. m²/m

COMPANY **ESSO STANDARD OIL** (AUSTRALIA) LTD Rm 2.03 @ 64 °F
Rmf 1.8 @ 63 °F
Rmc 0.7 @ 198 °F
BHT 198 °F
WELL CORMORANT 1
FIELD **WILDCAT**
COUNTY AUSTRALIA STATE TAS

SCHL FR 6600
SCHL TD 9837
DRLR TD 9845
Elev:
KB 100
DF 99
GL

DETAIL LOG

5" = 100'

MICROCALIPER

DEPTHS

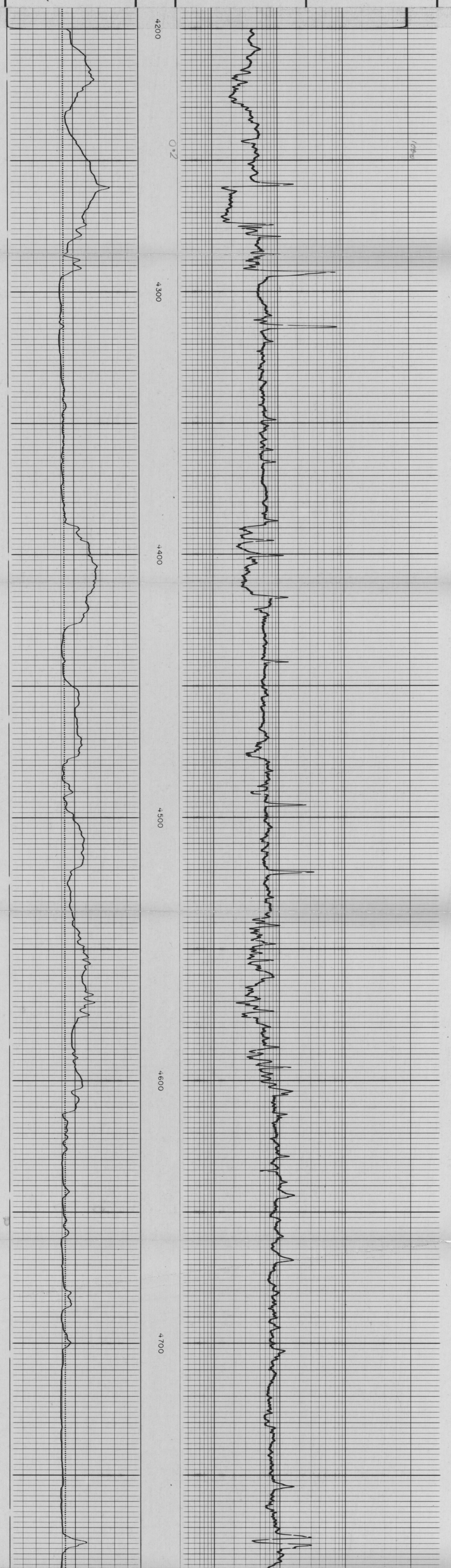
RESISTIVITY ohms. m²/m

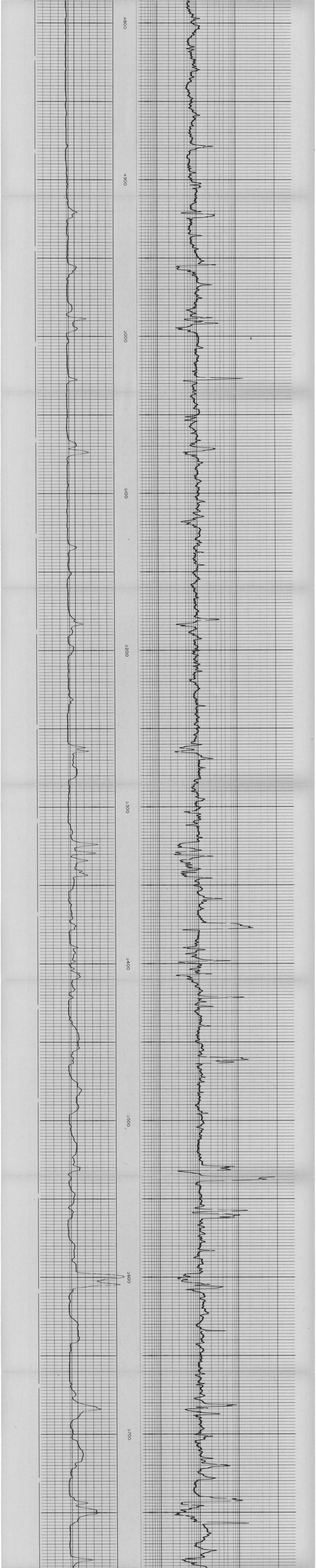
RESISTIVITY ohms. m²/m

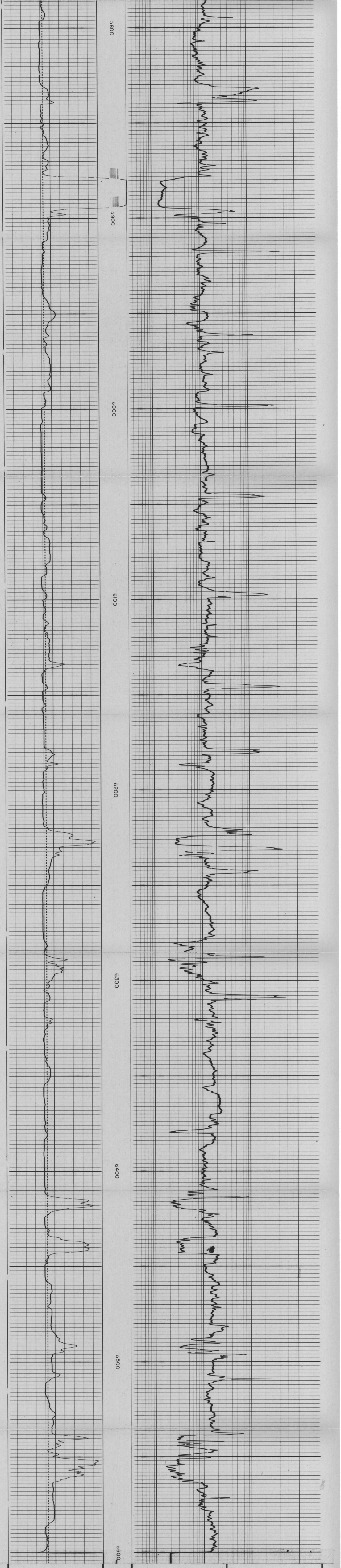
8 18

Hole Diameter in Inches

0.2 1 10 100 1000 2000







6 18

Hole Diameter in Inches

MICROCALIPER

DEPTHS

0.2 1 10

RESISTIVITY
ohms. m²/m

100 1000 2000

RESISTIVITY
ohms. m²/m

COMPANY **ESSO STANDARD OIL**

WELL CORMORANT 1

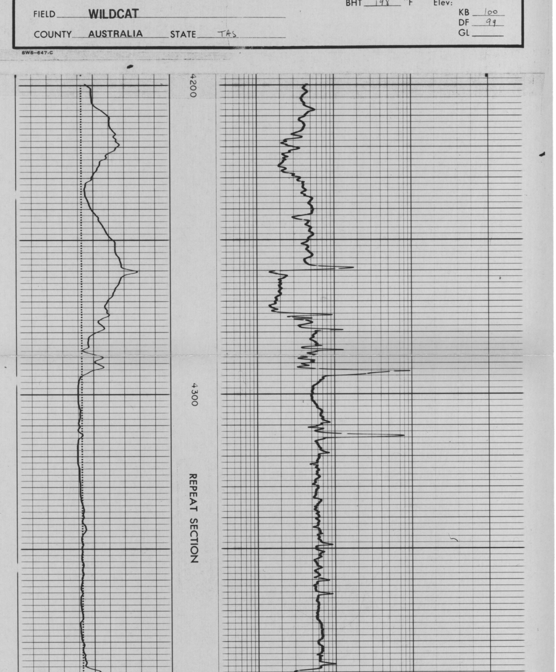
FIELD **WILDCAT**

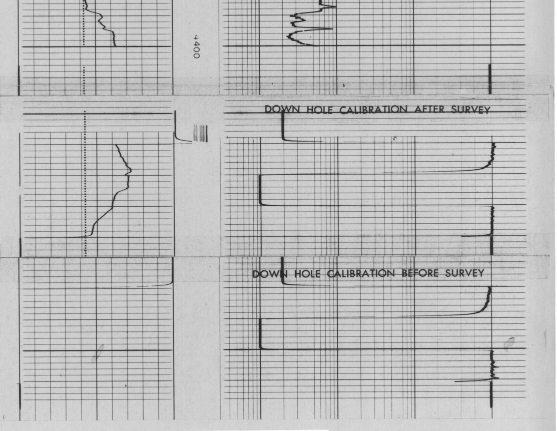
COUNTY AUSTRALIA STATE TAS

Rm 2.03 @ 64 °F
Rmf 1.8 @ 63 °F
Rmc 0.7 @ 198 °F
BHT 198 °F

SCHL FR 6600
SCHL TD 9857
DRLR TD 9845
Elev:
KB 100
DF 99
GL

SWS–647-C





5 cm

338093

Enclosure 14

PE-334

SCHLUMBERGER

MICROLATEROLOG

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION LAT.: 39° 34' 22.8"S LONG: 145° 31' 35.7"E
Other Services: IES, BHC, FIT, CDM, FDC-GR, CST.
Sec. Twp. Rge.

Permanent Datum: MSL, Elev. 0
Log Measured From RT, 99 Ft. Above Perm. Datum
Drilling Measured From RT
Elev.: K.B. 100
D.F. 99
G.L. 0

Date	10 JULY 70		
Run No.	1 2"		
Depth—Driller	9845		
Depth—Logger	9837		
Btm. Log Interval	6600		
Top Log Interval	4200		
Casing—Driller	2952 @	@	@
Casing—Logger	2952		
Bit Size	12¼		
Type Fluid in Hole	LIGNOSULPHONATE		
Dens. | Visc.	10.3 | 41		
pH | Fluid Loss	10 | 9.2ml	ml	ml
Source of Sample	CIRCULATION		
R_m @ Meas. Temp.	2.03 @ 64 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.8 @ 63 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	0.7 @ 198°F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS CHART		
R_m @ BHT	0.66 @ 198°F	@ °F	@ °F
Time Since Circ.	9 HOURS		
Max. Rec. Temp.	160°F	°F	°F
Equip. | Location	2072 | SAL		
Recorded By	GASTALDY		
Witnessed By	BLACK		

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

REMARKS

Changes in Mud Type or Additional Samples		
Date | Sample No.		
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.		
pH | Fluid Loss	ml	
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}		
R_m @ BHT	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

Scale Changes

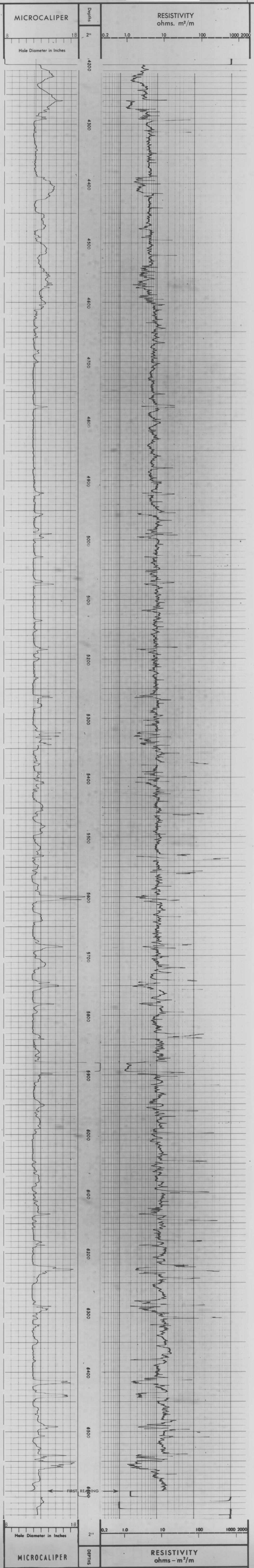
Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Pos.	Other
1	MPT	H VII		

C.D.: S.O.:
Equip. Used: CART. No. MPC-C 281
PANEL No. MPP-B 201
SONDE No. MPS-C 771
FUNCTION PANEL-

5 cm



COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

SCHL FR 6600
SCHL TD 9837
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0

5 cm

Enclosure 15

OR-334

338094

SCHLUMBERGER

MICROLATEROLOG

COUNTY AUSTRALIA
FIELD or LOCATION ~~WILDCAT~~ CORMORANT 1
WELL
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

LOCATION LAT.: 39° 34' 22.8"S
LONG: 145° 31' 35.7"E
Sec. Twp. Rge.

Other Services:
IES, FDC-GR,
BHC, CDM, FIT,
CST

Permanent Datum: MSL, Elev. 0
Log Measured From RT, 99 Ft. Above Perm. Datum
Drilling Measured From RT

Elev.: K.B. 100
D.F. 99
G.L. 0

Date	10 JULY 70			
Run No.	1 5"			
Depth—Driller	9845			
Depth—Logger	9837			
Btm. Log Interval	6600			
Top Log Interval	4200			
Casing—Driller	2952 @	@	@	@
Casing—Logger	2952			
Bit Size	12¼			
Type Fluid in Hole	LIGNOSULPHONATE			
Dens. | Visc.	10.3 | 41	|	|	|
pH | Fluid Loss	10 | 9.2 ml	| ml	| ml	| ml
Source of Sample	CIRCULATION			
R_m @ Meas. Temp.	2.03 @ 64 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.8 @ 63 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	0.7 @ 198 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS | CHART	|	|	|
R_m @ BHT	0.66 @ 198 °F	@ °F	@ °F	@ °F
Time Since Circ.	9 HOURS			
Max. Rec. Temp.	160 °F	°F	°F	°F
Equip. | Location	2072 | SAL	|	|	|
Recorded By	GASTALDY			
Witnessed By	BLACK			

FOLD HERE

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

REMARKS

Changes in Mud Type or Additional Samples

Date | Sample No.		
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.		
pH | Fluid Loss	ml	
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}		
R_m @ BHT	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

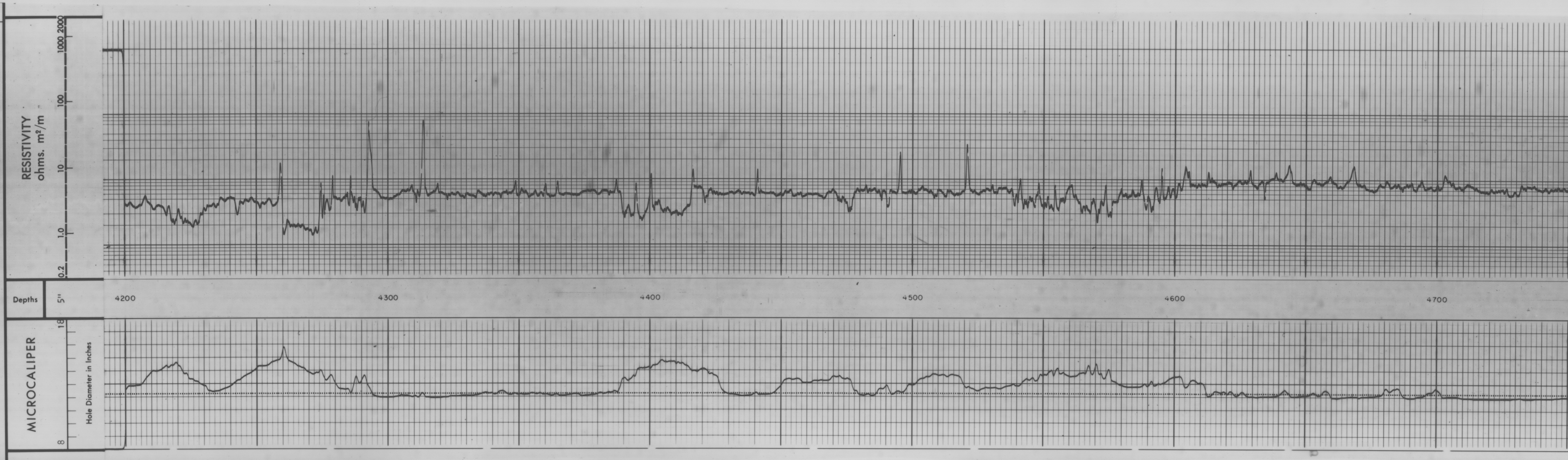
Scale Changes

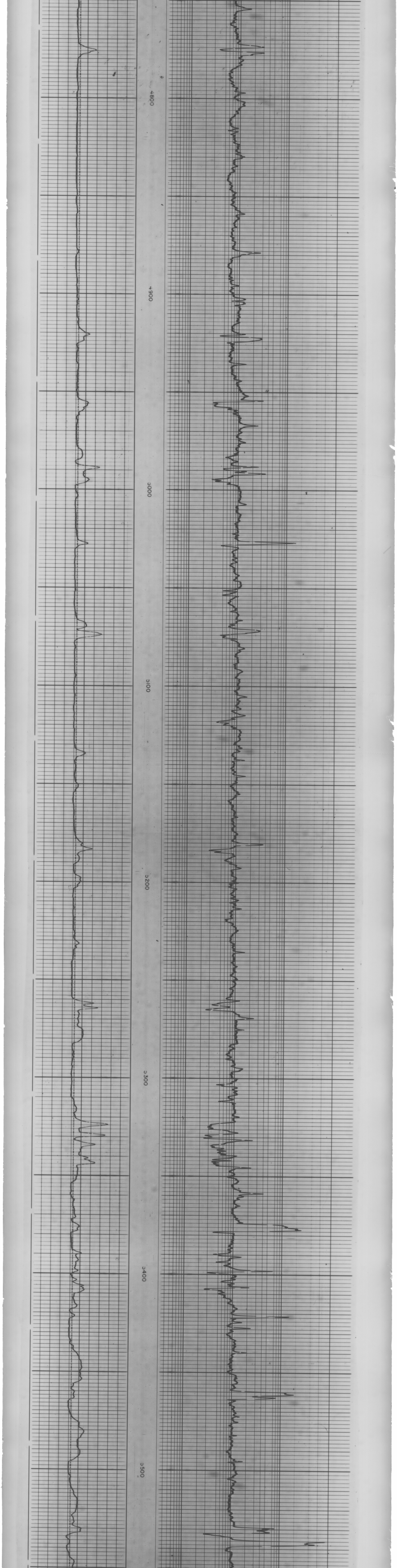
Type Log	Depth	Scale Up Hole	Scale Down Hole

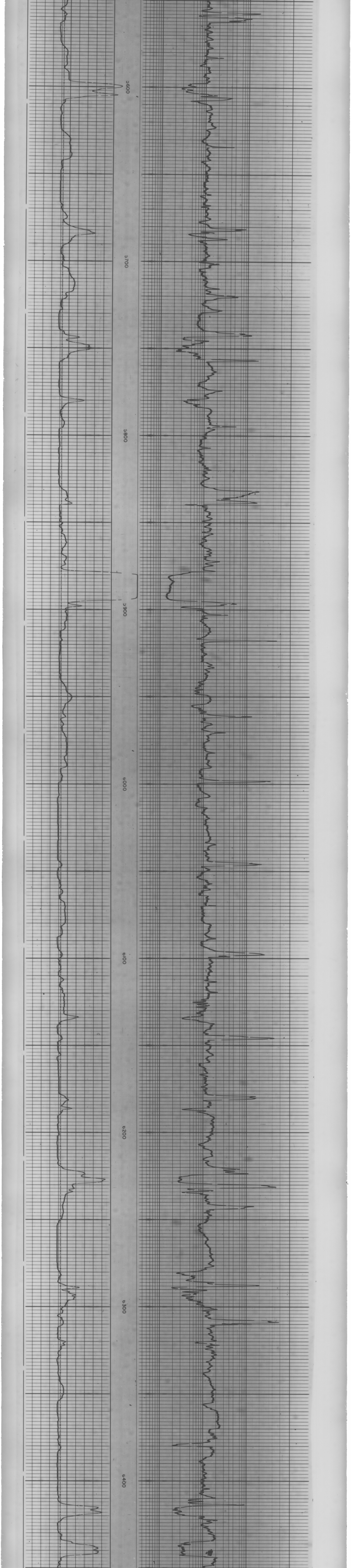
Equipment Data

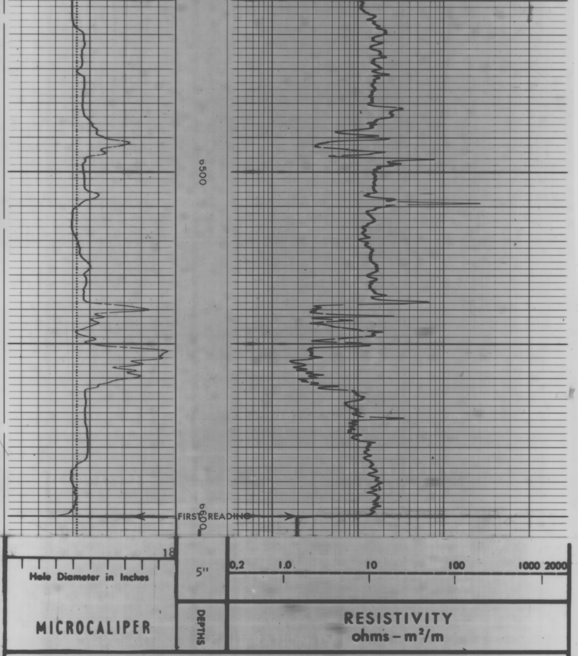
Run No.	Tool Type	Pad Type	Tool Pos.	Other
1	MPT	H VIII		

C.D.: S.O.:
Equip. Used: CART. No. MPC-C 281
PANEL No. MPP-B 201
SONDE No. MPS-C 771
FUNCTION PANEL-





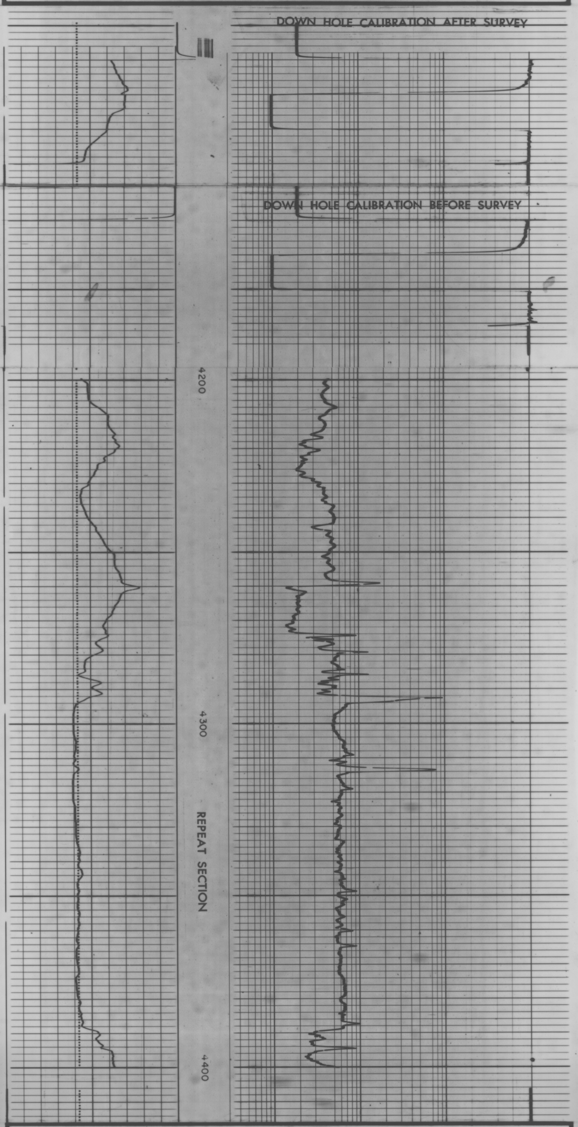




COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

SCHL FR 6600
SCHL TD 9837
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0

CALIBRATION DATA



CALIBRATION DATA

COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

SCHL FR 6600
SCHL TD 9837
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0

5 cm

OR-334

338095

BHP (3)

Enclosure 16

SCHLUMBERGER CONTINUOUS DIPMETER

COUNTRY AUSTRALIA
FIELD WILDCAT
WELL CORMORANT 1
COMPANY ESSO STANDARD OIL (AUSTRALIA) LTD.

COMPANY ESSO STANDARD OIL (AUSTRALIA) LTD.
WELL CORMORANT 1
FIELD WILDCAT
LOCATION
STATE TASMANIA
COUNTRY AUSTRALIA

Location of Well
Latitude: 39° 54' 22" S
Longitude: 145° 51' 55" E

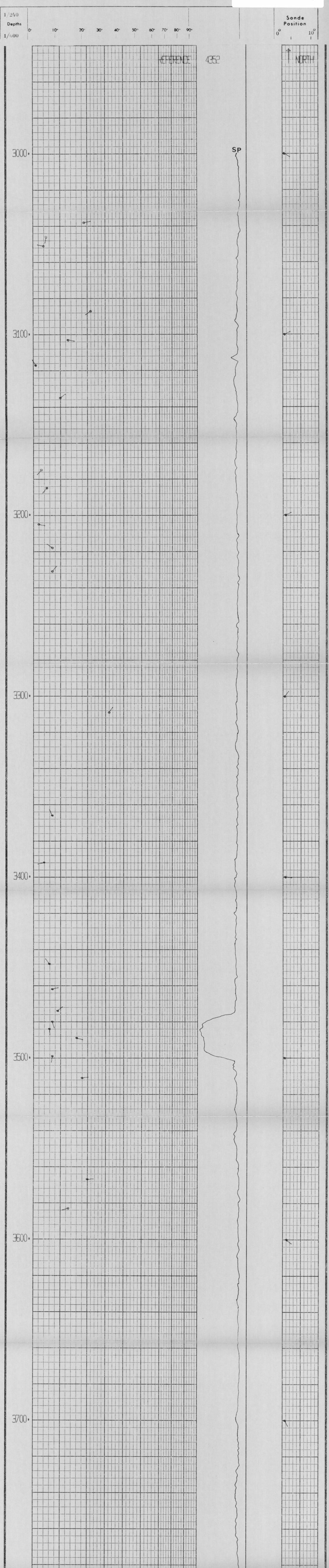
Elevation: R.T.: 99
D.F.:
K.B.: 100
or G.L.:

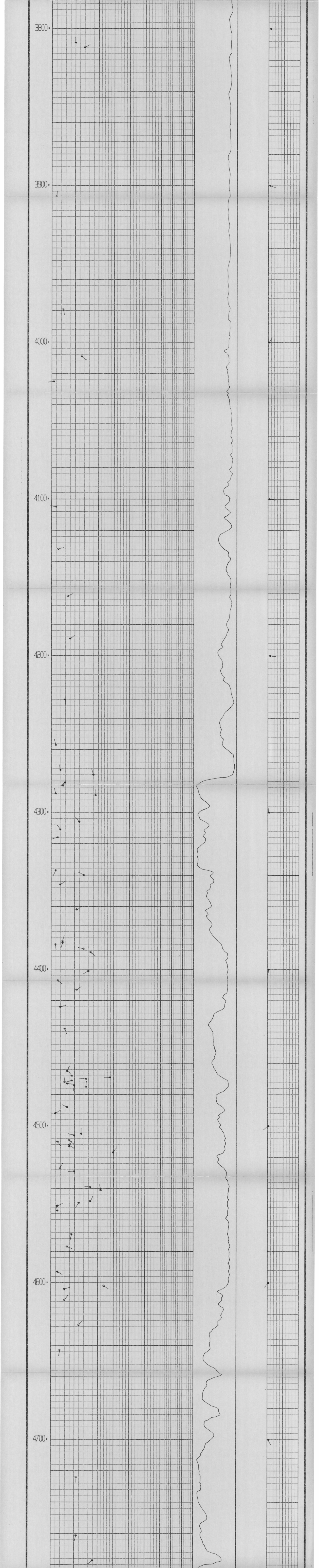
FILING No.

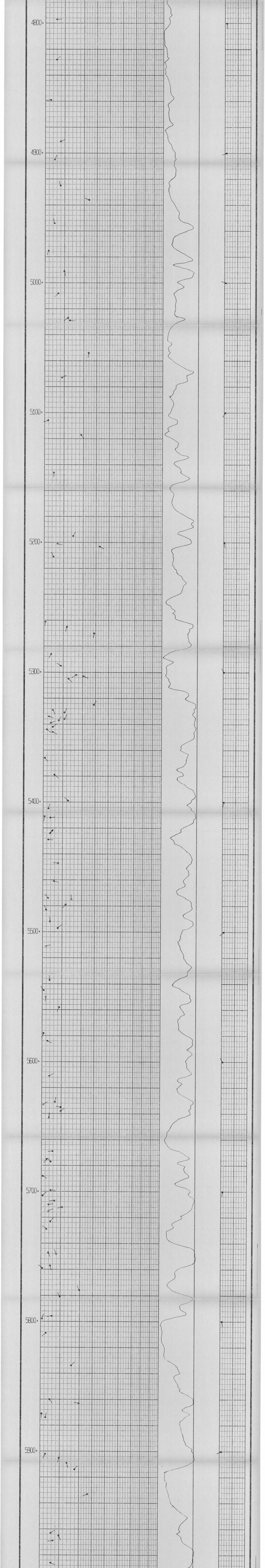
RUN No.	ONE	TWO	THREE
DATE	10th July, 1970		
Casing Depth Schlumberger	2952		
" " Driller	2952		
Total Depth Schlumberger	9836		
" " Driller	9845		
" " Reached	9832		
Bit Size	to	to	to
	12¼" to T.D.	to T.D.	to T.D.
Mud Nature	Lignosulphate		
" Density | viscosity	10,5 | 41	|	|
" Resistivity	0,66 at 198 °F.	at °F.	at °F.
B.H.T	218		
Logging Speed	45'/mn		
First Reading	9832		
Last Reading	2952		
Interval measured	7048		
Equipment	DCT-D *		
Truck number	2072		
Observer	GASTALDY		
Correlated by	FRANKLIN **		
Computed by	IBM 1130		
Plotted by	IBM 1627		
Magnetic Declination	11° E		
Levels	530		
Reference	4552		

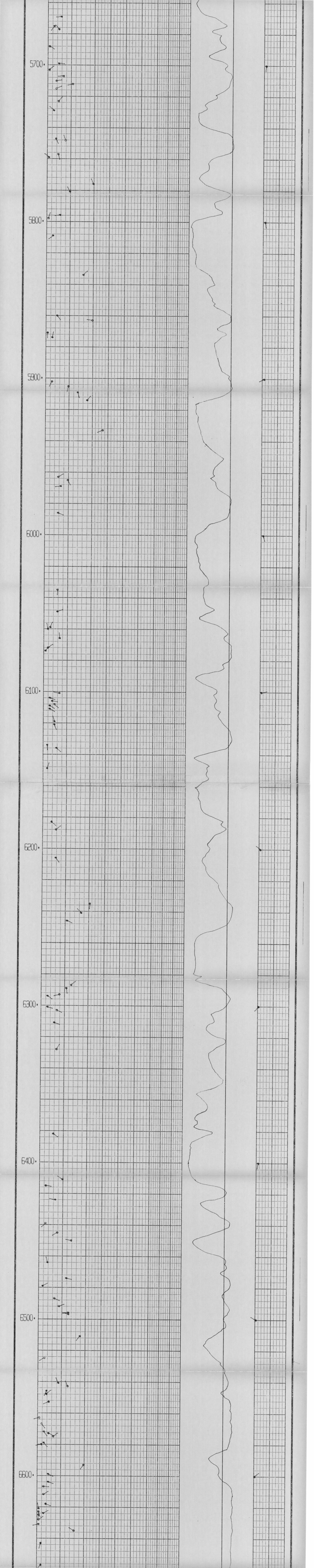
*3 ARMED DIPMETER ANALOG RECORDER ** HAND CORRELATION.

Correlation Class : 1, Good 2, Fair 3, Possible





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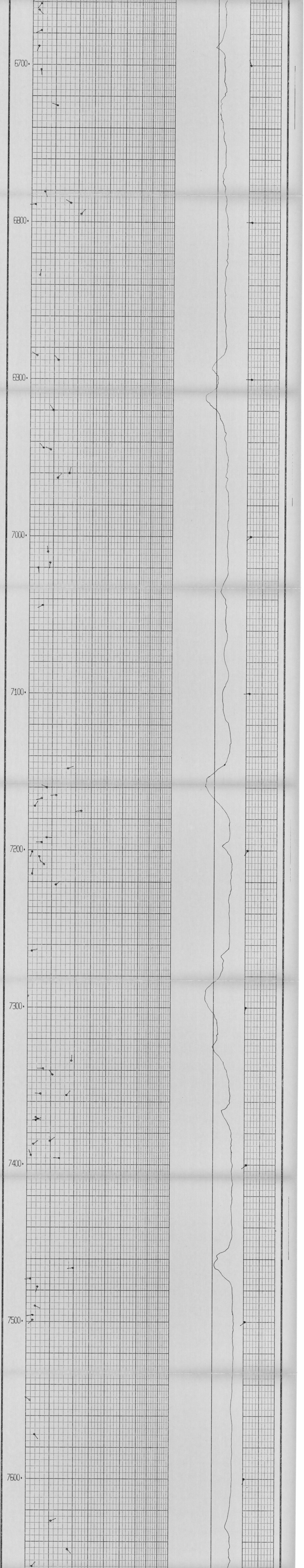
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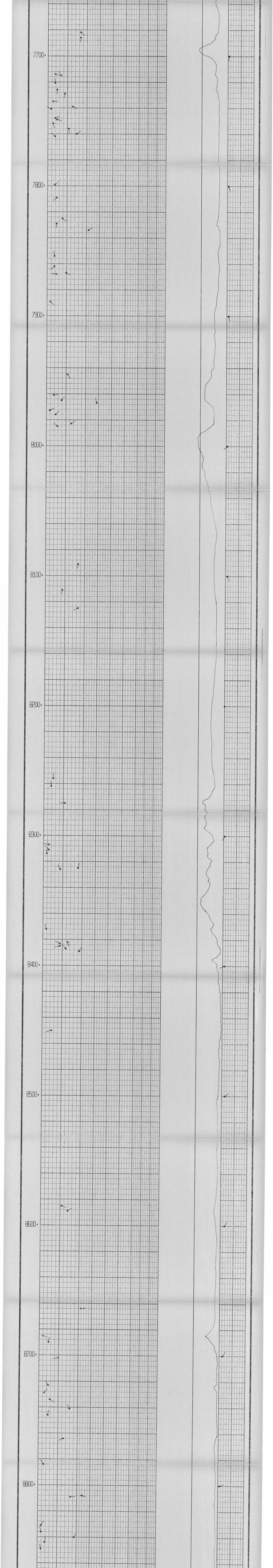
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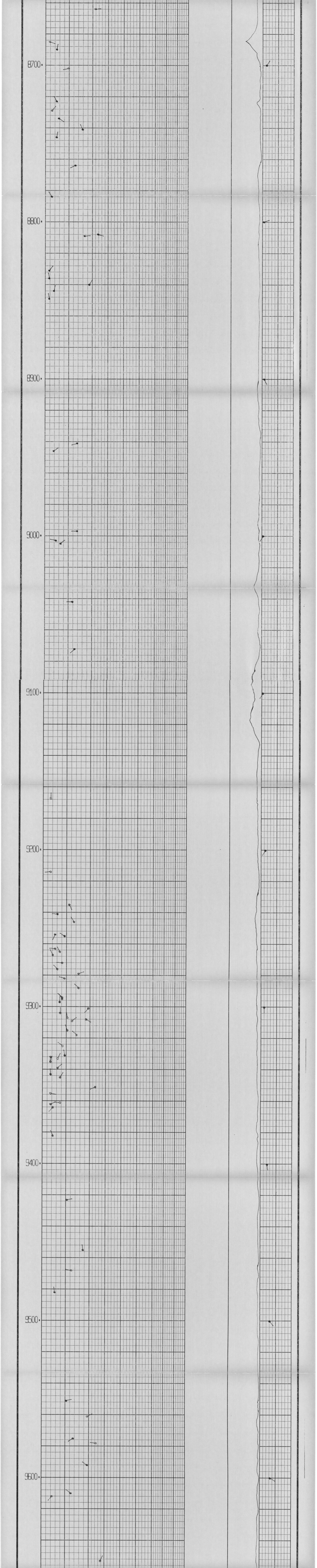
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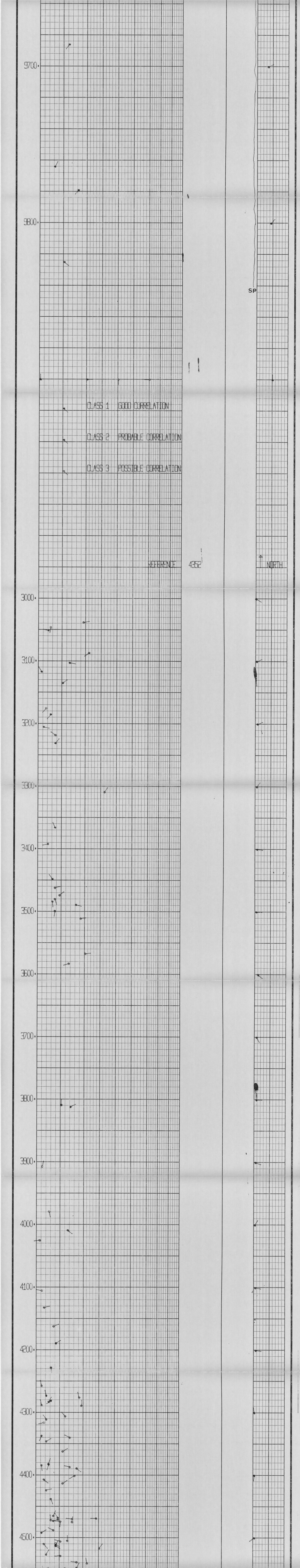
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9800
SP
CLASS 1 GOOD CORRELATION
CLASS 2 PROBABLE CORRELATION
CLASS 3 POSSIBLE CORRELATION
REFERENCE 4352
NORTH
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3700
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4200
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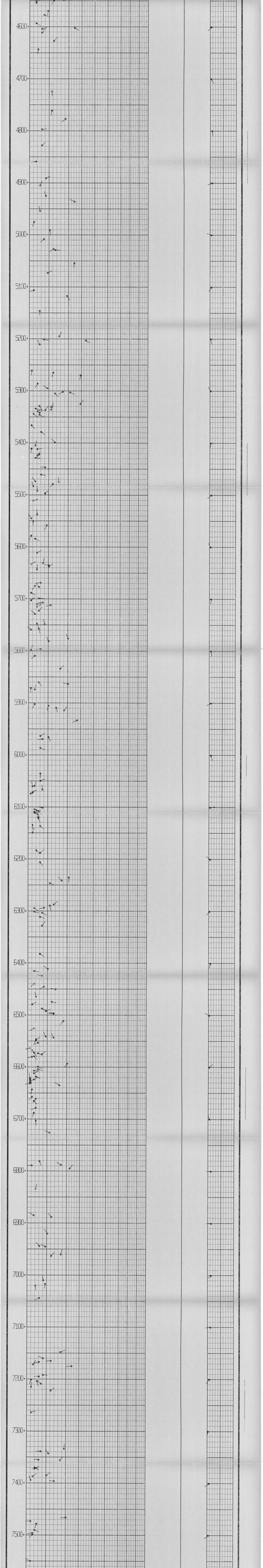
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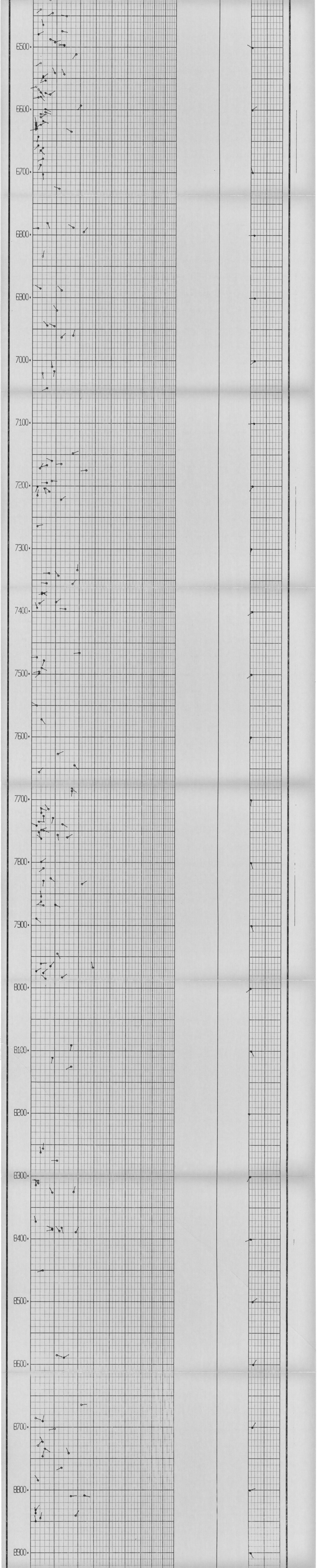
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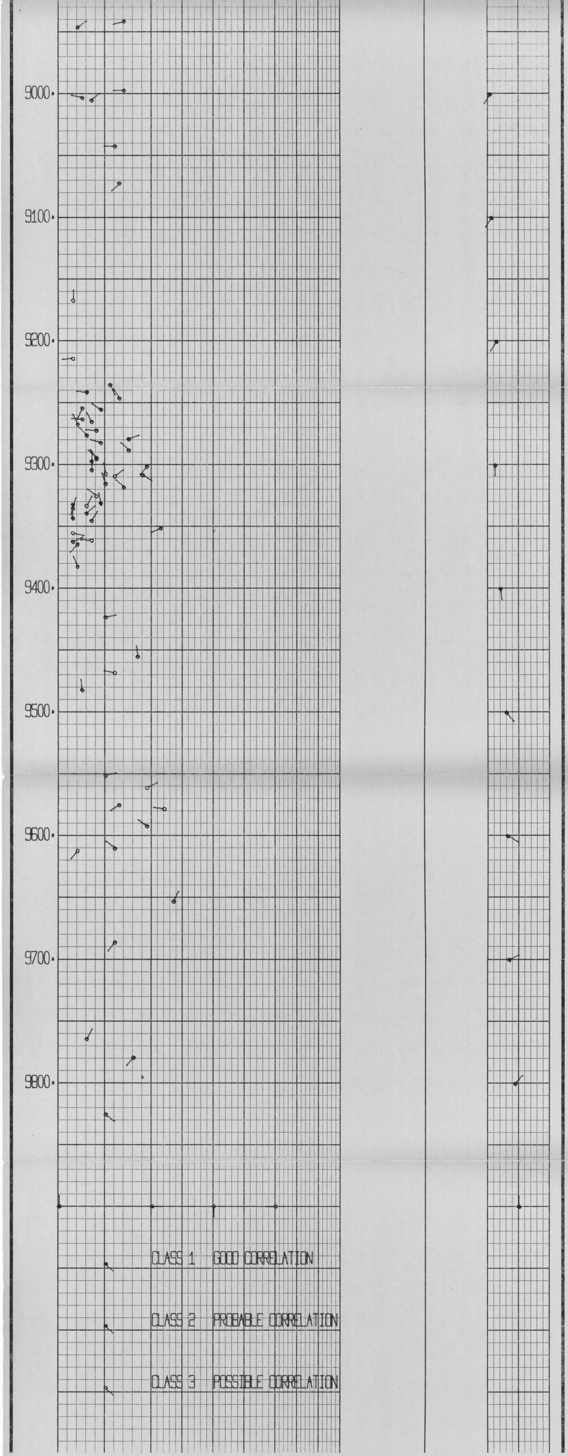
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CLASS 1 GOOD CORRELATION
CLASS 2 PROBABLE CORRELATION
CLASS 3 POSSIBLE CORRELATION

OR-334

33896

OFFSHORE 87
Enclosure 7

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION LAT.: 39° 34' 22.8"S LONG.: 145° 31' 35.7"E
Other Services: IES, FDC-GR, MLL, CDM, CST, FIT.
Sec. ___ Twp. ___ Rge. ___

Permanent Datum: MSL, Elev. 0
Log Measured From RT, 99 Ft. Above Perm. Datum
Drilling Measured From RT
Elev.: K.B. 100 D.F. 99 G.L. 0

Date	13 JUNE 70	10 JULY 70		
Run No.	1 2"	2 2"		
Depth—Driller	3002	9845		
Depth—Logger	3002	9837		
Btm. Log Interval	2999	9836		
Top Log Interval	810 GR:275	2952		
Casing—Driller	20" @810	@2952	@	@
Casing—Logger	810	2952		
Bit Size	9-7/8	12¼		
Type Fluid in Hole	SPERSENE & GEL	LIGNOSULPHONATE		
Dens. | Visc.	9.2 | 50	10.3 | 41		
pH | Fluid Loss	8.0 | 11 ml	10 | 9.2 ml	ml	ml
Source of Sample	FLOWLINE	CIRCULATION		
R_m @ Meas. Temp.	1.72 @60 °F	2.03 @64 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.22 @60 °F	1.8 @68 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.79 @60 °F	0.7 @198 °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS | PRESS	PRESS | CHART		
R_m @ BHT	1.1 @104 °F	0.66 @198 °F	@ °F	@ °F
Time Since Circ.	6 HOURS	5 HOURS		
Max. Rec. Temp.	104 °F	198 °F	°F	°F
Equip. | Location	2072 | SAL	2072 | SAL		
Recorded By	SCHON-ROBERTS	GASTALDY		
Witnessed By	COONEY	BLACK		

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

REMARKS RUN 1 WCD USED DISP. 2'. BIT SIZE RECORDED 1" TOO LOW FROM TD TO 1700'.

Changes in Mud Type or Additional Samples		
Date | Sample No.		
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.		
ph | Fluid Loss	ml	
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}		
R_m @ BHT	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

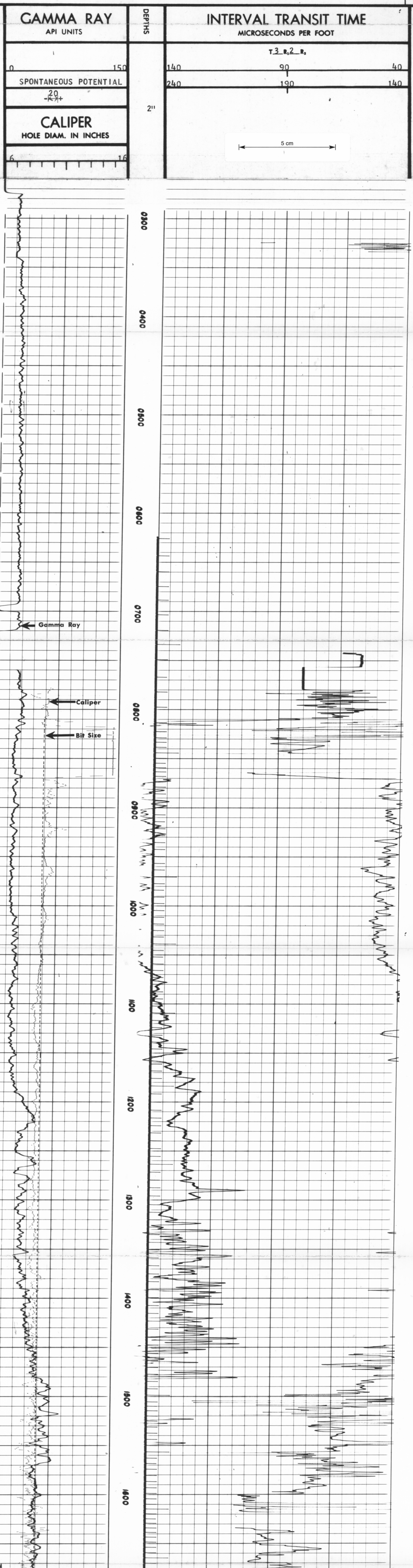
Run No.	Tool Type	Pad Type	Tool Pos.	Other

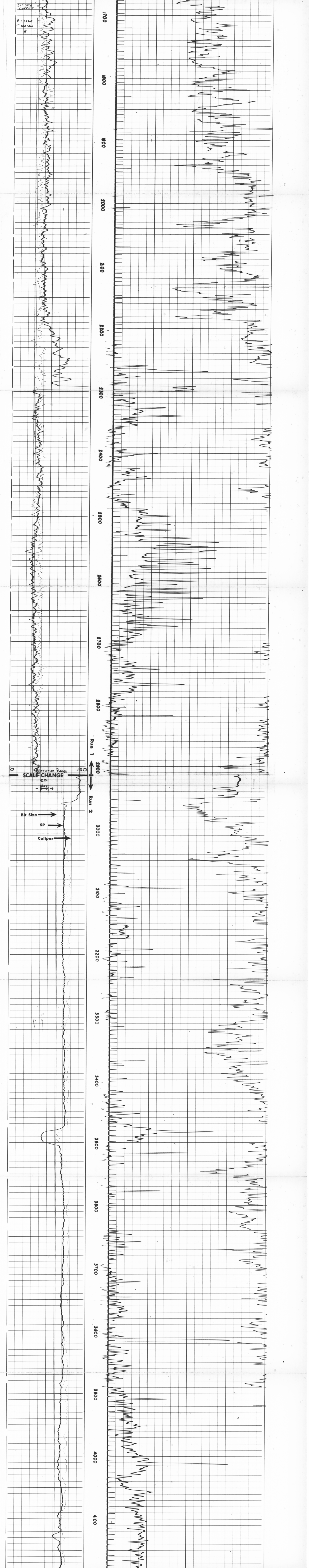
C.D.: YES S.O.:

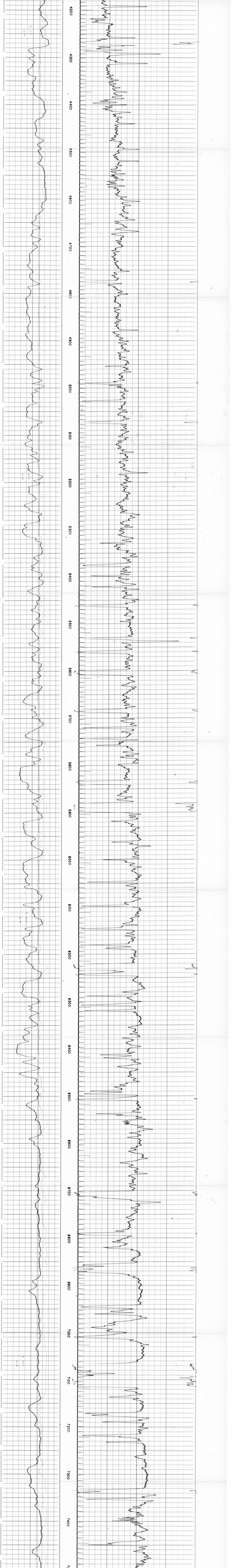
Equip. Used:	CART. No.	SLC-B 357	SLC-B 357
	PANEL No.	SLP-C 353	SLP-C 353
	SONDE No.	SLS-D 389	SLS-D 389

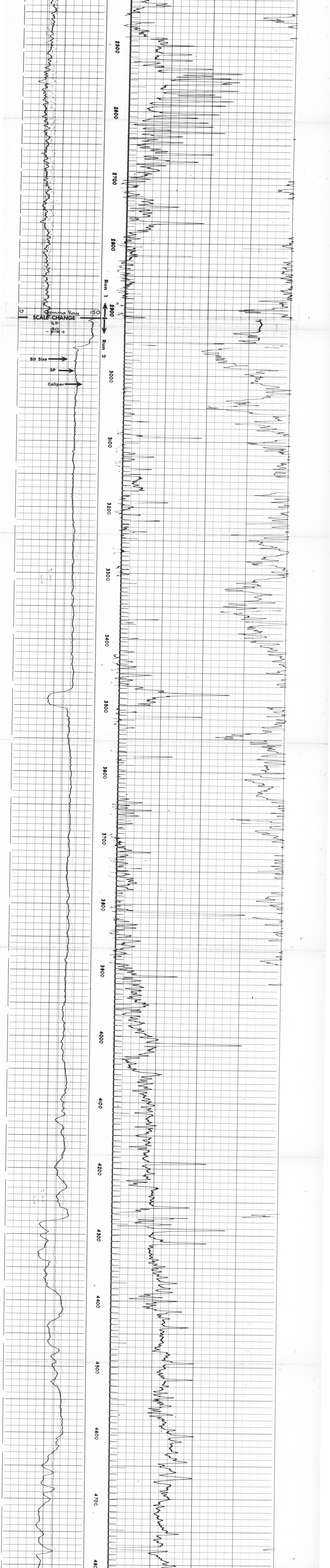
CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:							

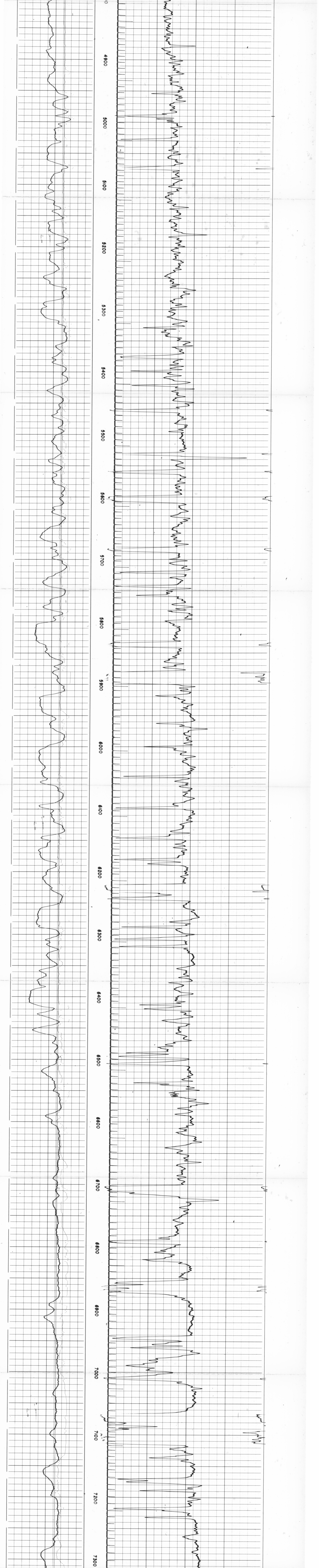
$$\text{Velocity (feet per second)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

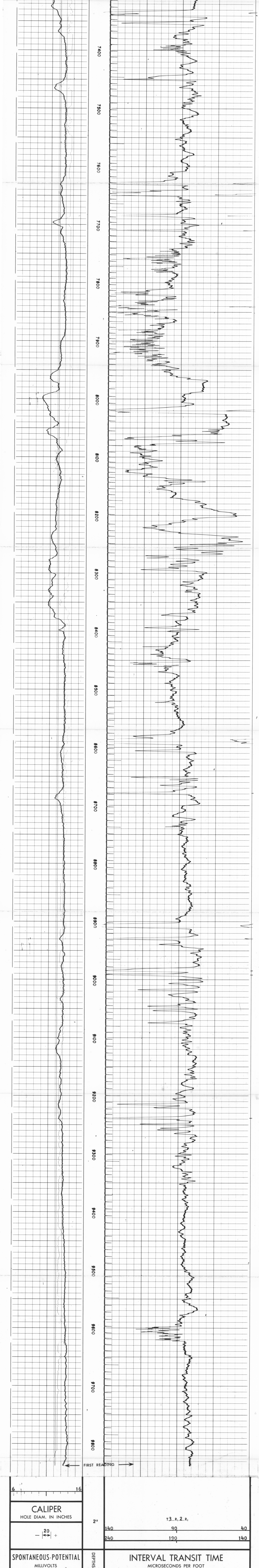








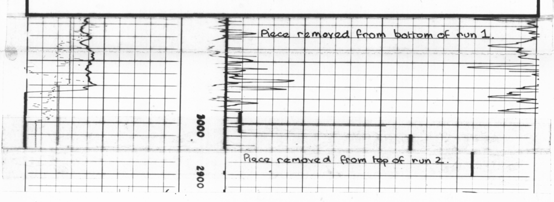




6 — 16	2"	T3 R₁ 2 R₂
CALIPER HOLE DIAM. IN INCHES		140 — 90 — 40 240 — 190 — 140
— 20 +		
SPONTANEOUS-POTENTIAL MILLIVOLTS	DEPTHS	**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT

COMPANY ESSO AUSTRALIA
WELL CORMORANT 1
FIELD W1LDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCHL. FR 9837
SCHL. TD 9839
DRLR TD 9845
Elev:
KB 100
DF 99
GL 0



Piece removed from bottom of run 1.

Piece removed from top of run 2.

5 cm

338097

OR-334 Enclosure 18

SCHLUMBERGER BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

LOCATION
LAT.: 39° 34' 22.8"S
LONG: 145° 31' 35.7"E
Sec. Twp. Rge.

Other Services:
IES, FDC-GR, CST, CDM, MLL, FIT.

Permanent Datum: MSL, Elev. 0
Log Measured From RT, 99 Ft. Above Perm. Datum
Drilling Measured From RT

Elev.: K.B. 100
D.F. 99
G.L. 0

Date	13 JUNE 70		10 JULY 70					
Run No.	1	5"	2	5"				
Depth—Driller	3002		9845					
Depth—Logger	3002		9837					
Btm. Log Interval	2999		9836					
Top Log Interval	810	GR: 275	2952					
Casing—Driller	20"	@810		@2952	@		@	
Casing—Logger	810		2952					
Bit Size	9 7/8		12¼					
Type Fluid in Hole	SPERSENE GEL		LIGNOSULPHONATE					
Dens. / Visc.	9.2	50	10.3	41				
pH / Fluid Loss	8.0	11 ml	10	9.2 ml		ml		ml
Source of Sample	FLOWLINE		CIRCULATION					
R_m @ Meas. Temp.	1.72 @60 °F		2.03 @64 °F		@	°F	@	°F
R_{mf} @ Meas. Temp.	1.22 @60 °F		1.8 @63 °F		@	°F	@	°F
R_{mc} @ Meas. Temp.	1.79 @60 °F		0.7 @198 °F		@	°F	@	°F
Source: R_{mf} R_{mc}	PRESS	PRESS	PRESS	CHART				
R_m @ BHT	1.1 @104 °F		0.66 @198 °F		@	°F	@	°F
Time Since Circ.	6 HOURS		5 HOURS					
Max. Rec. Temp.	104 °F		198 °F			°F		°F
Equip. / Location	2072	SAL	2072	SAL				
Recorded By	SCHON-ROBERTS		GASTALDY					
Witnessed By	COONEY		BLACK					

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

REMARKS RUN 1 WCD USED DIS. 2'. BIT SIZE RECORDED 1" TOO LOW FROM TD TO 1700'.

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth—Driller			
Type Fluid in Hole			
Dens. / Visc.			
pH / Fluid Loss		ml	
Source of Sample			
R_m @ Meas. Temp.	@ °F	@ °F	
R_{mf} @ Meas. Temp.	@ °F	@ °F	
R_{mc} @ Meas. Temp.	@ °F	@ °F	
Source: R_{mf} R_{mc}			
R_m @ BHT	@ °F	@ °F	
R_{mf} @ BHT	@ °F	@ °F	
R_{mc} @ BHT	@ °F	@ °F	

Scale Changes			
Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data					
Run No.	Tool Type	Pad Type	Tool Pos.	Other	

C.D. YES S.O. -

Equip. Used:		
CART. No.	SLC-B 357	SLC-B 357
PANEL No.	SLP-C 353	SLP-C 353
SONDE No.	SLS-D 389	SLS-D 389

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:							

Velocity (feet per second) = 1,000,000 / Interval Transit Time (microseconds per foot)

GAMMA RAY
API UNITS
0 150

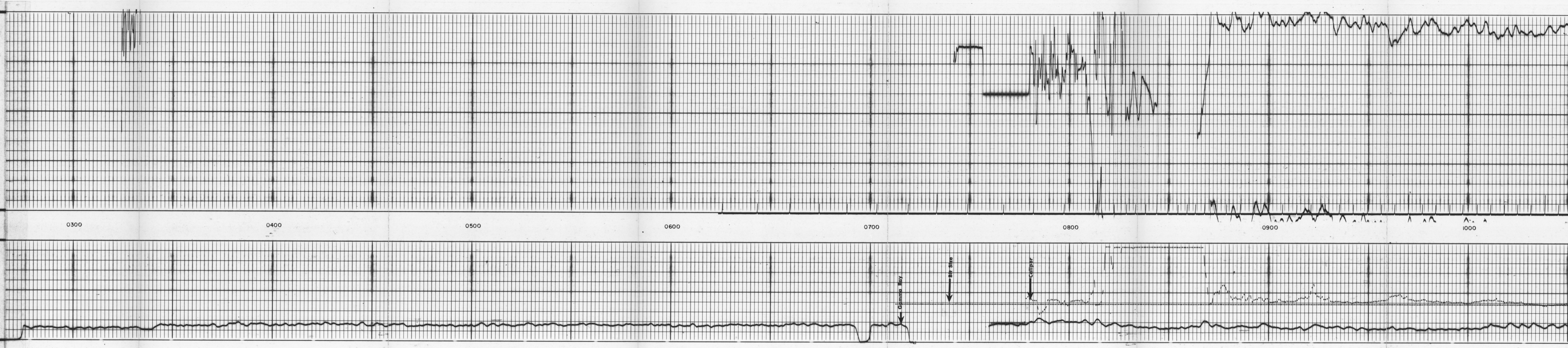
SPONTANEOUS POTENTIAL
- 20 +

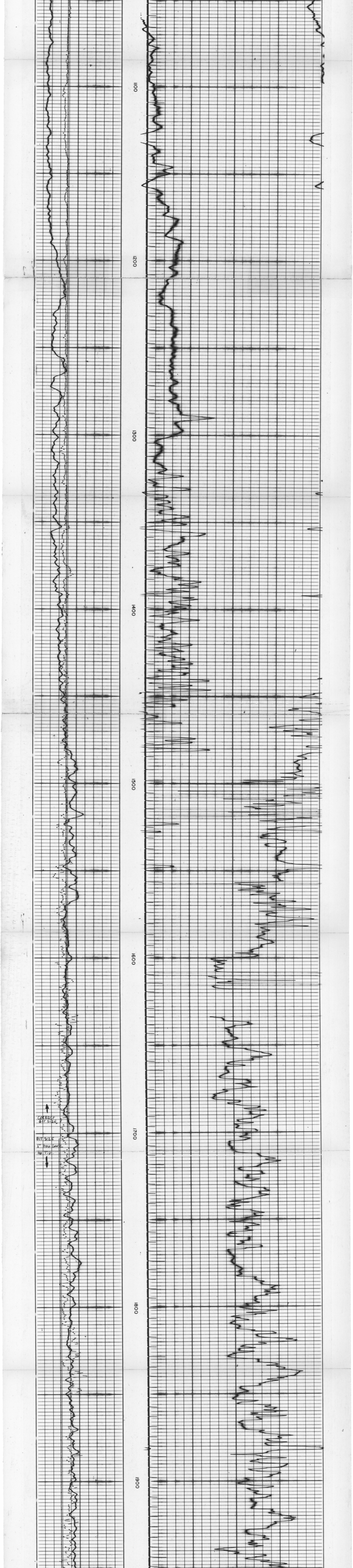
CALIPER
HOLE DIAM. IN INCHES
6 16

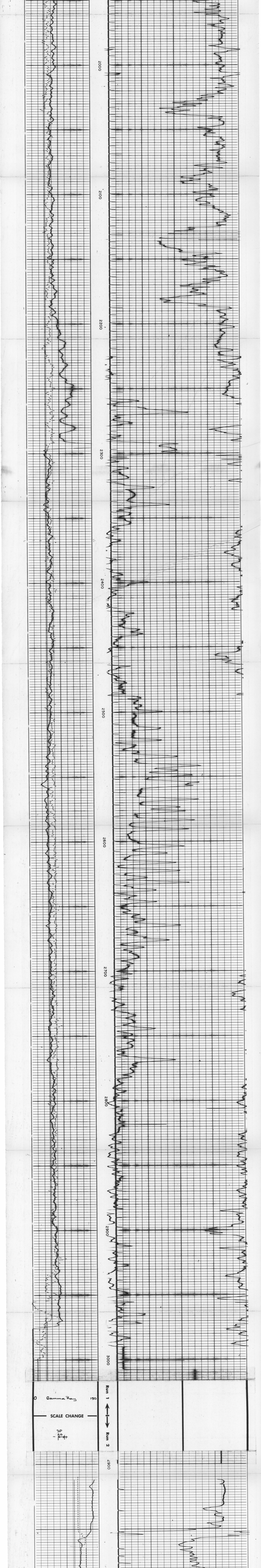
DEPTHS
5"

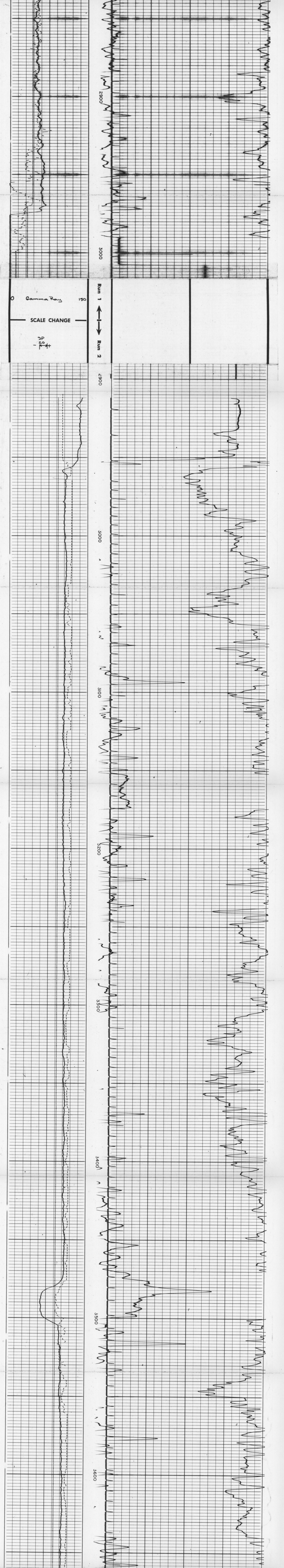
INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT
T3 R1 2R2
140 90 40
240 190 140

5 cm







2900
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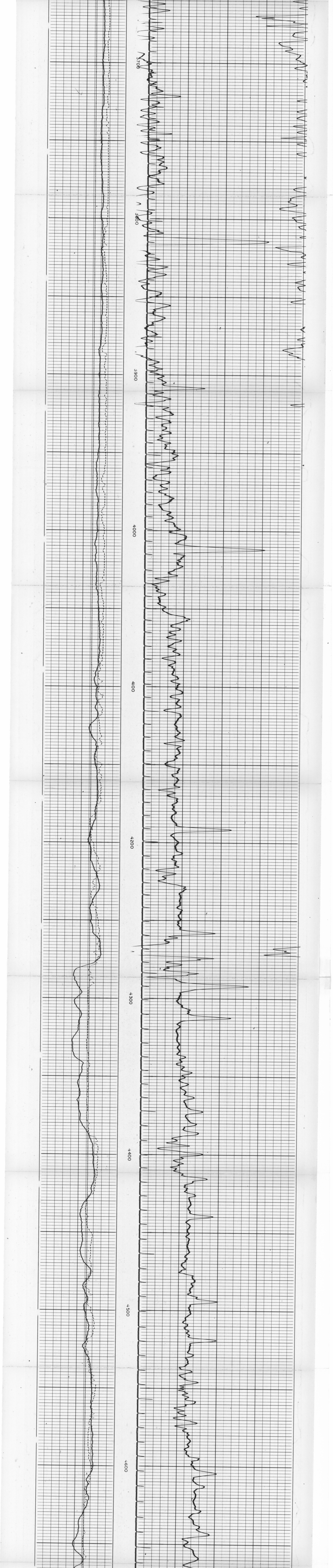
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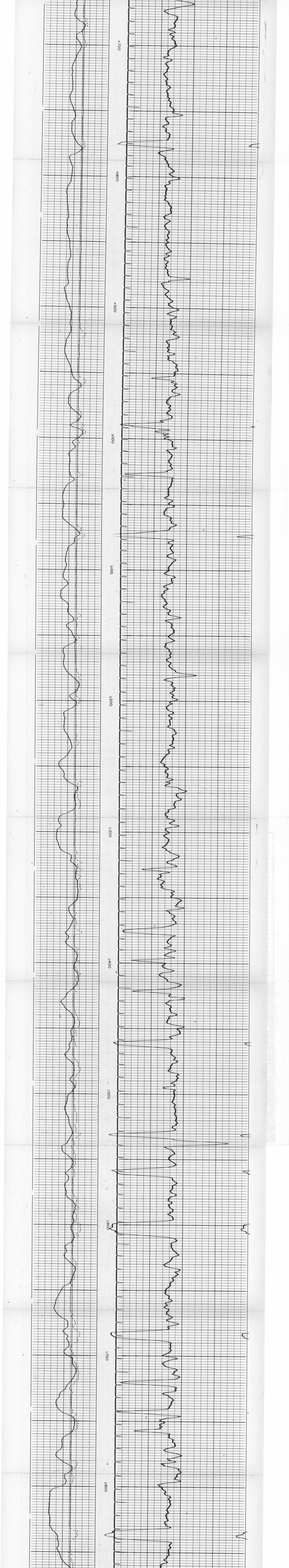
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