349069

Enclosure 15a

OFFSHORE 13 OR-342

SCHLUMBERGER

FORMATION TESTER

COUNTRY AUSTRALIA
FIELD WILDCAT
WELL POONBOON 1
COMPANY ESSO AUSTRALIA

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTRY AUSTRALIA STATE VICTORIA

Location: LAT. 40° 08'S LONG. 145° 55'E
Other Services:
Ref. No.:

Permanent datum MSL ; Elev.: 0
Log Measured From KB 32' Ft. Above Perm. Datum
Drilling Measured From KB Ft. Above Perm. Datum
Elev.: K.B. 32' D.F. 31' G.L. -239'

Date	14 SEPTEMBER 1972	
Run No.	1	
Test Nos.	1	
Type of Test	Open Hole ☒ Cased Hole ☐	Open Hole ☐ Cased Hole ☐
Type of Fluid in Hole	LIGNOSULPHONATE	
Density | Viscosity	10.2 | 43	|
pH | Fluid Loss	10.5 | 5	|
Source of Sample	FLOWLINE	
Rm @ Meas. Temp.	1.04 @ 72 °F	@ °F
Rmf @ Meas. Temp.	0.05 @ 72 °F	@ °F
Rmc @ Meas. Temp.	1.26 @ 72 °F	@ °F
Source: Rmf | Rmc	PRESS |	|
Rm @ BHT	0.37 @ 195 °F	@ °F
Time Since Circ.		
Max. Rec. Temp.	°F	°F
Recorded By	R HANWRIGHT	
Witness	J. MEBBERSON	

BORE-HOLE RECORD / CASING RECORD

RUN No.	Bit	From	To	Size	Wgt.	From	To
1	12¼"	3032	8827	133/8		3032	SURFACE

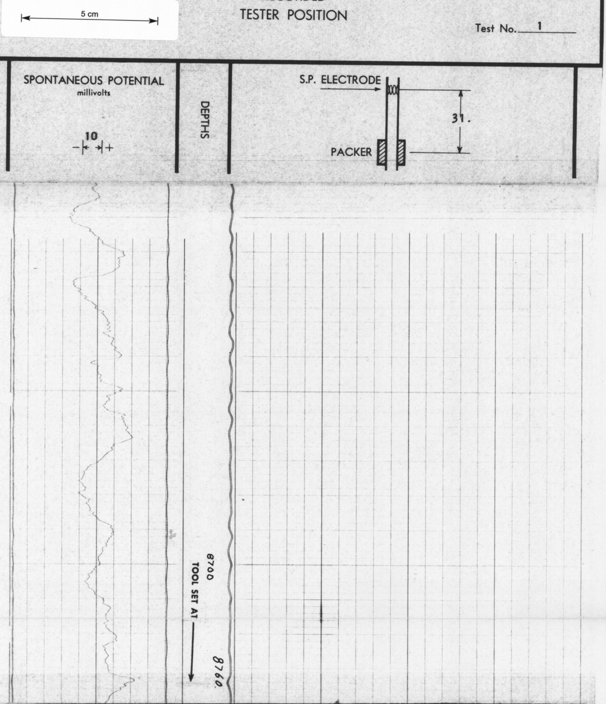
FOLD HERE

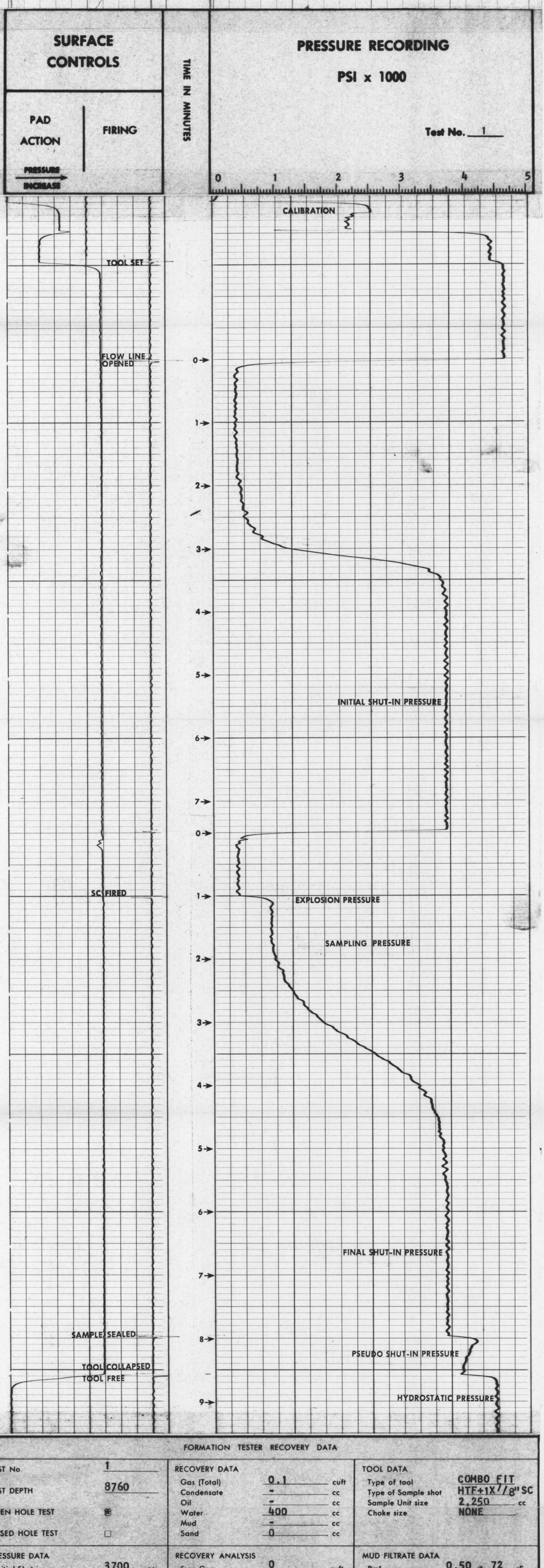
Run No.	ONE
Operating rig time	3.5 HOURS
Logging Truck No.	2080
F.T. Truck No.	
F.T. Engineer	R.HANWRIGHT
F.T. Operator	BROWN
Location:	SAL

REMARKS:
SEGREGATOR USED AS MAIN CHAMBER

RECORDED
TESTER POSITION

Test No. 1





FORMATION TESTER RECOVERY DATA

TEST No.	1	RECOVERY DATA		TOOL DATA	
TEST DEPTH	8760	Gas (Total)	0.1 cuft	Type of tool	COMBO FIT
		Condensate	- cc	Type of Sample shot	HTF+1X7/8" SC
		Oil	- cc	Sample Unit size	2,250 cc
OPEN HOLE TEST	☒	Water	400 cc	Choke size	NONE
		Mud	- cc		
CASED HOLE TEST	☐	Sand	0 cc		

PRESSURE DATA		RECOVERY ANALYSIS		MUD FILTRATE DATA	
Initial Shut in	3700 psi	Free Gas	0 cuft	Rmf	0.50 @ 72 °F
Shut in Time	7.5 min	Oil		Equivalent Cl	8000 ppm
Sampling	940 psi	API Gravity	- @ - °F	Rw	@ °F
Sampling Time	4. min	GOR	-	Equivalent Cl	ppm
Final Shut in	3680 psi	Water			
Shut in Time	4 min	Rrf (Filtered)	0.94 @ 62 °F		
Hydrostatic	4480 psi	Equivalent Cl	4700 ppm		
Surface Chamber	206 psi				

REMARKS WATER USED TO TRANSFER LAST SAMPLE IN SEG HAD NOT REMOVED. THIS IS WHY ONLY 4000 WERE RECOVERED AND WHY TOOL FILLED QUICKER.

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTRY AUSTRALIA STATE VICTORIA

SCHLUMBERGER

FORMATION TESTER

349070

OFFSHORE 13

OR-342

ENCLOSURE 15b

Schlumberger

FORMATION TESTER

COUNTY	AUSTRALIA
Field or LOCATION	WILDCAT
WELL	POONBOON 1
COMPANY	ESSO AUSTRALIA LTD

COMPANY	ESSO AUSTRALIA LIMITED
WELL	POONBOON 1
FIELD	WILDCAT
COUNTY	AUSTRALIA
STATE	VICTORIA
LOCATION	LAT: 40° 08'S LONG: 145° 55'E
Sec.	
Twp.	
Rge.	
Other Services:	IES FDC/GR

Permanent Datum:	MSL , Elev. 0
Log Measured From	KB , 32 Ft. Above Perm. Datum
Drilling Measured From	KB
Elev.: K.B.	32'
D.F.	31'
G.L.	-259'

Date	27 SEPTEMBER 1972	
Run No.	2	2"
Test No's.	1,2,3,4,5,6	
Type of Test	Open Hole ☒ Cased Hole ☐	Open Hole ☐ Cased Hole ☐
Type Fluid in Hole	LIGNOSULPHONATE	
Dens. | Visc.	11.1 | 44	
pH | Fluid Loss	9.8 | 5.2	
Source of Sample	FLOWLINE	
R_m @ Meas. Temp.	1.04 @ 61 °F	@ °F
R_{mf} @ Meas. Temp.	0.714 @ 61 °F	@ °F
R_{mc} @ Meas. Temp.	1.576 @ 61 °F	@ °F
Source: R_{mf} | R_{mc}	PRESS	
R_m @ BHT	0.280 @ 222 °F	@ °F
Time Since Circ.	12 HOURS	
Max. Rec. Temp.	236 °F	°F
Recorded By	R. HANWRIGHT	
Witnessed By	B. MCKAY	

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	8½"	8761	10493	9⅝	47	SURFACE	8761

FOLD HERE

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

Run No.	2
Operating rig time	15
Logging Truck No.	2080
F.T. Truck No.	
F.T. Engineer	R. HANWRIGHT
F.T. Operator	L. BROWNE
Location	SAL

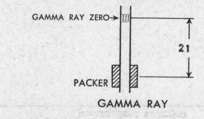
REMARKS:
#4 NO RECORD AS CAMERA WAS NOT ENGAUGED. MUD RUN
#5
#6 LOST SEAL WHEN SEGREGATOR WAS OPENED.
#2 LOST SEAL AFTER 2.7MIN DUE TO HYDRAULIC FAILURE.
#1 PARTIAL PLUGGING OF FLOWLINE WHILE SAMPLING.

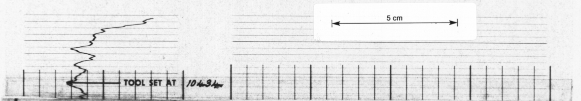
RECORDED TESTER POSITION

Test No. 1

GAMMA RAY
RADIOACTIVITY INCREASES

DEPTHS





SURFACE CONTROLS

PAD ACTION

PRESSURE INCREASE

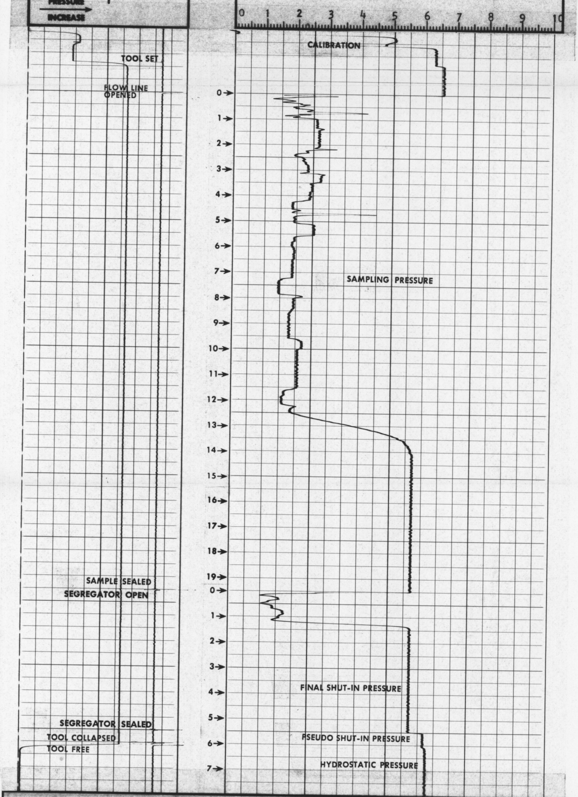
FIRING

TIME IN MINUTES

PRESSURE RECORDING

PSI x 1000

Test No. 1



FORMATION TESTER RECOVERY DATA

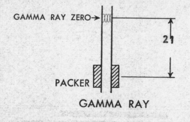
TEST No.	1	**RECOVERY DATA**		**TOOL DATA**	
TEST DEPTH	10434	Gas (Total)	1.4 cuft	Type of tool	FIT COMBO
OPEN HOLE TEST	☒	Condensate	0 cc	Type of Sample shot	HTF
CASED HOLE TEST	☐	Oil	0 cc	Sample Unit size	22165 cc
		Water	21000 cc	Choke size	0.03
		Mud	0 cc		
		Sand	0 cc		
PRESSURE DATA		**RECOVERY ANALYSIS**		**MUD FILTRATE DATA**	
Initial Shut in	- psi	Free Gas	1.4 cuft	Rmf	0.714 @ 61 °F
Shut in Time	- min	Oil		Equivalent Cl	4900 ppm
Sampling	2000 psi	API Gravity	- @ - °F	Rw	@ °F
Sampling Time	12.5 min	GOR	-	Equivalent Cl	ppm
Final Shut in	5700 psi	Water		REMARKS	PARTIAL PLUGGING WHILE SAMPLING.
Shut in Time	7 min	Rrf (Filtered)	1.31 @ 74 °F		
Hydrostatic	6200 psi	Equivalent Cl	2700 ppm		
Surface Chamber	100 psi				

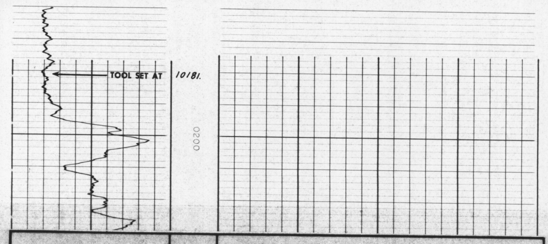
RECORDED TESTER POSITION

Test No. 2

GAMMA RAY
RADIOACTIVITY INCREASES

DEPTHS



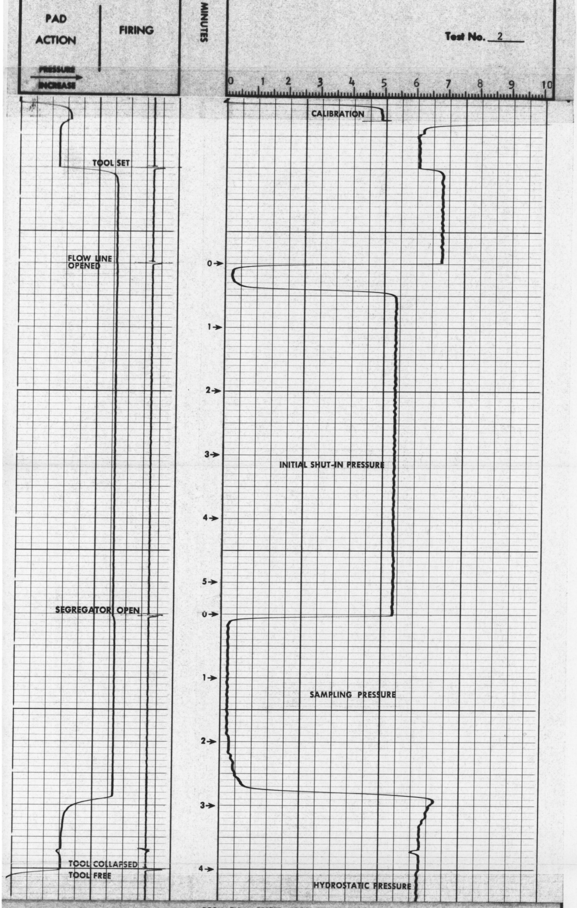


SURFACE CONTROLS

TIME IN

PRESSURE RECORDING

PSI x 1000

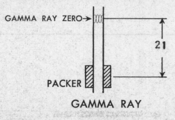


FORMATION TESTER RECOVERY DATA

TEST No.	2		RECOVERY DATA			TOOL DATA		
TEST DEPTH	10181		Gas (Total)	0	cuft	Type of tool	FIT COMBO	
OPEN HOLE TEST	☒		Condensate	0	cc	Type of Sample shot	HTF	
CASED HOLE TEST	☐		Oil	0	cc	Sample Unit size	2250	cc
			Water	1000	cc	Choke size	NONE	
			Mud	0	cc			
			Sand	0	cc			
PRESSURE DATA			RECOVERY ANALYSIS			MUD FILTRATE DATA		
Initial Shut in	5400	psi	Free Gas	-	cuft	Rmf	0.714 @ 61	°F
Shut in Time	5.5	min	Oil			Equivalent Cl	4900	ppm
Sampling	0	psi	API Gravity	- @ -	°F	Rw	@	°F
Sampling Time	2.7	min	GOR			Equivalent Cl		ppm
Final Shut in	LOSTSEAL	psi	Water			REMARKS	ORINGON HTF FAILED. LOST HYDRAULIC PRESSURE.	
Shut in Time	"	min	Rrf (Filtered)	0.757 @ 74	°F			
Hydrostatic	6200	psi	Equivalent Cl	4500	ppm			
Surface Chamber	0	psi						

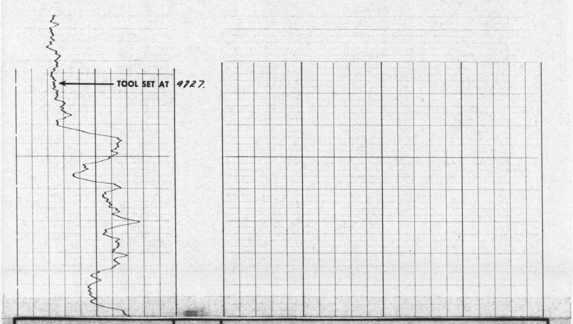
RECORDED TESTER POSITION

Test No. 3



DEPTHS

GAMMA RAY
RADIOACTIVITY INCREASES



SURFACE CONTROLS

PAD ACTION | **FIRING**

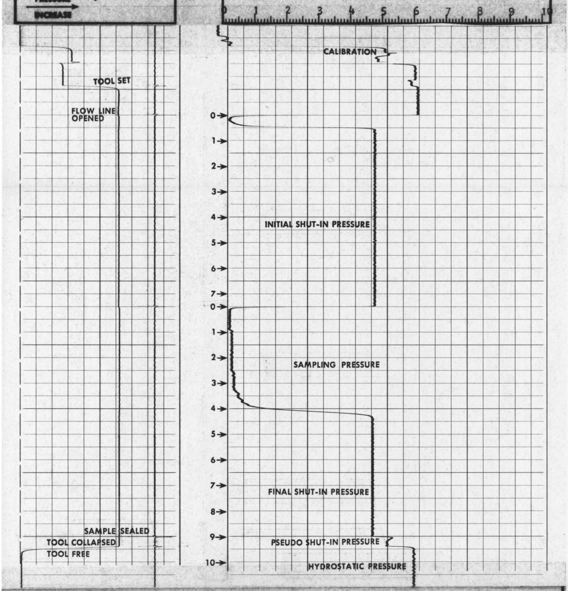
PRESSURE INCREASE

TIME IN MINUTES

PRESSURE RECORDING

PSI x 1000

Test No. 3

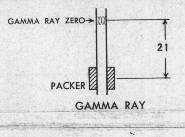


FORMATION TESTER RECOVERY DATA

TEST No.	3		RECOVERY DATA			TOOL DATA		
TEST DEPTH	9727		Gas (Total)	0	cuft	Type of tool	FIT COMBO	
OPEN HOLE TEST	☒		Condensate	0	cc	Type of Sample shot	HTF	
CASED HOLE TEST	☐		Oil	0	cc	Sample Unit size	2250	cc
			Water	2200	cc	Choke size	NONE	
			Mud	0	cc			
			Sand	0	cc			
PRESSURE DATA			RECOVERY ANALYSIS			MUD FILTRATE DATA		
Initial Shut in	4700	psi	Free Gas	-	cuft	Rmf	0.714 @ 61	°F
Shut in Time	7.5	min	Oil			Equivalent Cl	4900	ppm
Sampling	0	psi	API Gravity	- @ -	°F	Rw	@	°F
Sampling Time	4	min	GOR	-		Equivalent Cl		ppm
Final Shut in	4500	psi	Water			REMARKS		
Shut in Time	5	min	Rrf (Filtered)	0.789 @ 74	°F			
Hydrostatic	5800	psi	Equivalent Cl	4300	ppm			
Surface Chamber	0	psi						

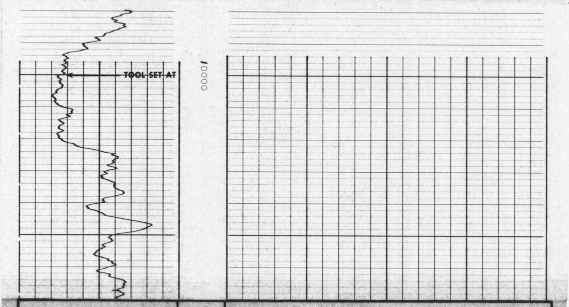
RECORDED TESTER POSITION

Test No. 5



DEPTHS

GAMMA RAY
RADIOACTIVITY INCREASES



SURFACE CONTROLS

PAD ACTION | **FIRING**

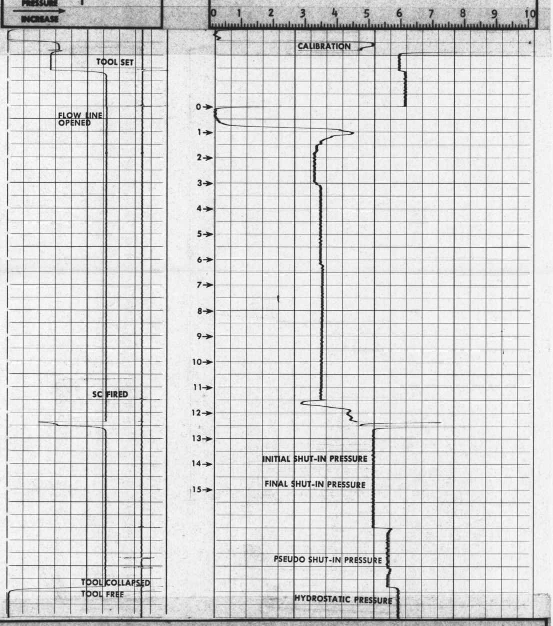
PRESSURE INCREASE

TIME IN MINUTES

PRESSURE RECORDING

PSI x 1000

Test No. 5



FORMATION TESTER RECOVERY DATA

TEST No. 5

TEST DEPTH 10000

OPEN HOLE TEST ☒

CASED HOLE TEST ☐

RECOVERY DATA

Gas (Total)	0	cuft
Condensate	0	cc
Oil	0	cc
Water	2100	cc
Mud	0	cc
Sand	0	cc

TOOL DATA

Type of tool FIT COMBO

Type of Sample shot HTF+1X7/8"SC

Sample Unit size 2250 cc

Choke size NONE

PRESSURE DATA

Initial Shut in		psi
Shut in Time		min
Sampling		psi
Sampling Time		min
Final Shut in	5000	psi
Shut in Time	4	min
Hydrostatic	5750	psi
Surface Chamber	100	psi

RECOVERY ANALYSIS

Free Gas 0 cuft

Oil

API Gravity - @ - °F

GOR -

Water

Rrf (Filtered) 0.664 @ 74 °F

Equivalent Cl 5500 ppm

MUD FILTRATE DATA

Rmf 0.714 @ 61 °F

Equivalent Cl 4900 ppm

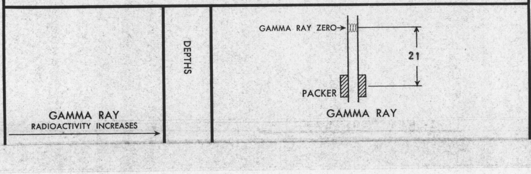
Rw @ °F

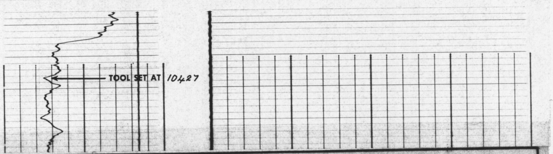
Equivalent Cl ppm

REMARKS

RECORDED TESTER POSITION

Test No. 6





SURFACE CONTROLS

PAD ACTION | **FIRING**

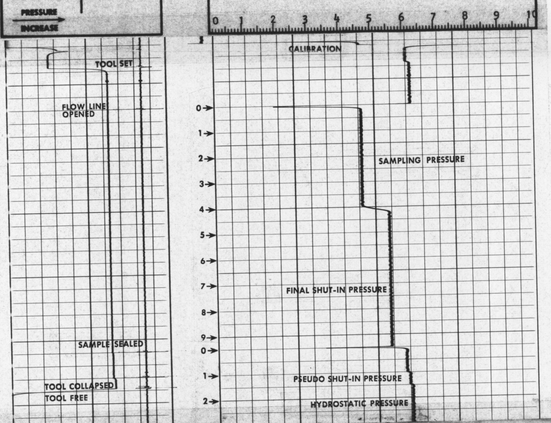
PRESSURE INCREASE

TIME IN MINUTES

PRESSURE RECORDING

PSI x 1000

Test No. 6



FORMATION TESTER RECOVERY DATA

TEST No. 6

TEST DEPTH 10427

OPEN HOLE TEST ☒

CASED HOLE TEST ☐

RECOVERY DATA

Gas (Total)	1.1	cuft
Condensate	0	cc
Oil	0	cc
Water	21000	cc
Mud	0	cc
Sand	0	cc

TOOL DATA

Type of tool FIT COMBO

Type of Sample shot HTF

Sample Unit size 22165 cc

Choke size 0.03

PRESSURE DATA

Initial Shut in	-	psi
Shut in Time	-	min
Sampling	4600	psi
Sampling Time	4	min
Final Shut in	5300	psi
Shut in Time	5.5	min
Hydrostatic	6050	psi
Surface Chamber	100	psi

RECOVERY ANALYSIS

Free Gas 1.1 cuft

Oil

API Gravity - @ - °F

GOR -

Water

Rrf (Filtered) 0.962 @ 74 °F

Equivalent Cl 3500 ppm

MUD FILTRATE DATA

Rmf 0.714 @ 61 °F

Equivalent Cl 4900 ppm

Rw @ °F

Equivalent Cl ppm

REMARKS LOST SEAL ON SEGREGATOR

COMPANY ESSO AUSTRALIA LIMITED

WELL POONBOON 1

FIELD WILDCAT

COUNTRY AUSTRALIA STATE VICTORIA

SCHLUMBERGER

FORMATION TESTER

349071

OFFSHORE 13

OR-342

ENCLOSURE 15c

Schlumberger

FORMATION TESTER

COMPANY	ESSO AUSTRALIA LIMITED
WELL	POONBOON 1
FIELD	WILDCAT
COUNTY	AUSTRALIA
STATE	VICTORIA
LOCATION	LAT: 40° 08'S LONG: 145° 55'E
Sec.	Twp. Rge.
Other Services:	FDC/GR

COUNTY AUSTRALIA
Field or LOCATION WILDCAT
WELL POONBOON 1
COMPANY ESSO AUSTRALIA LTD

Permanent Datum: MSL , Elev. 0
Log Measured From KB , 32 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 32'
D.F. 31'
G.L. -259'

Date	29 SEPTEMBER 1972		
Run No.	3		
Test No's.	1	5"	
Type of Test	Open Hole ☒ Cased Hole ☐	Open Hole ☐ Cased Hole ☐	
Type Fluid in Hole	LIGNOSULPHONATE		
Dens. | Visc.	12.2 | 46	|	
pH | Fluid Loss	9.8 | 5.6	|	
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	1.1 @ 69 °F	@ °F	
Rmf @ Meas. Temp.	0.628 @ 71 °F	@ °F	
Rmc @ Meas. Temp.	1.19 @ 69 °F	@ °F	
Source: Rmf | Rmc	PRESS	|	
Rm @ BHT	0.34 @ 235 °F	@ °F	
Time Since Circ.	12 HOURS		
Max. Rec. Temp.	235 °F	°F	
Recorded By	R. HANWRIGHT		
Witnessed By	J. BLACK		

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
3	8½"	8761	10693	9⅝	47	8761	SURFACE

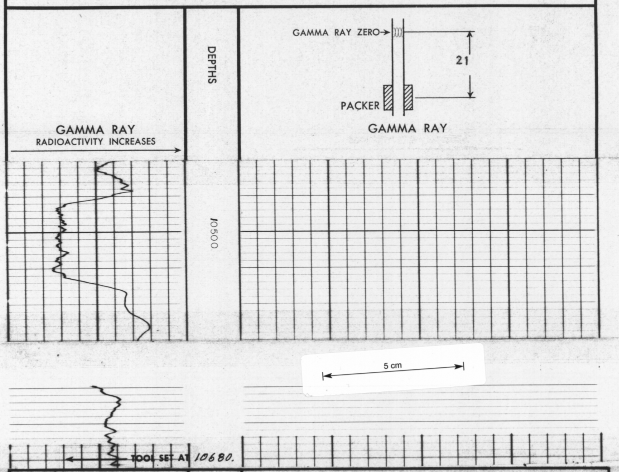
FOLD HERE The well name, location and borehole reference data were furnished by the customer.

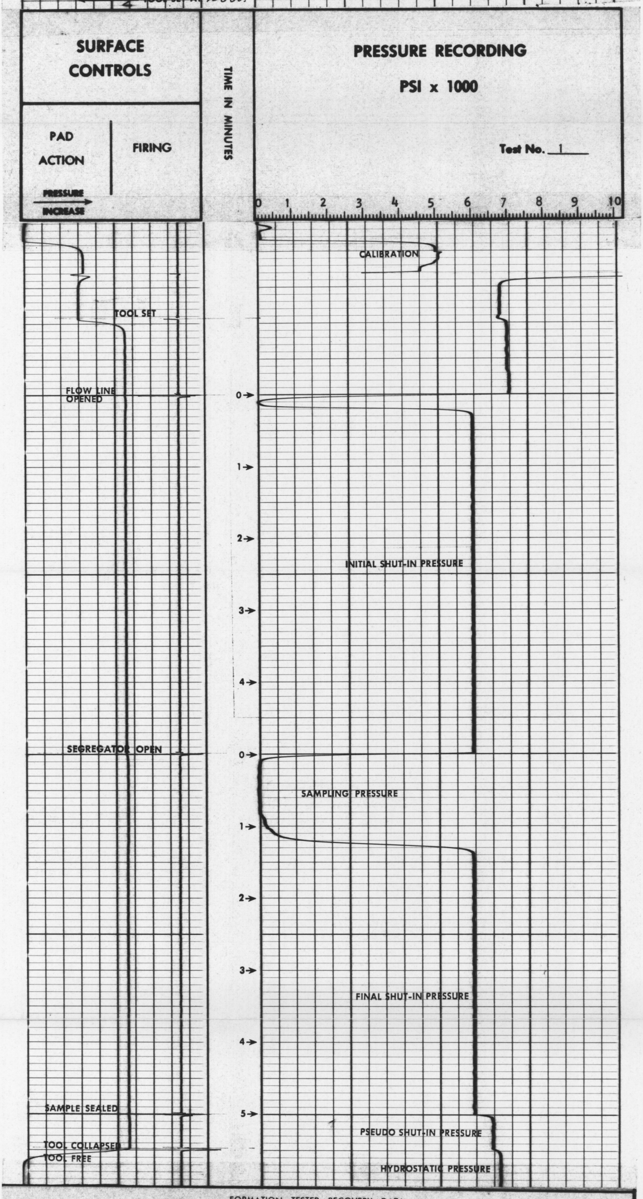
Run No.	3		
Operating rig time	1.5 HOURS		
Logging Truck No.	2080		
F.T. Truck No.			
F.T. Engineer	R. HANWRIGHT		
F.T. Operator	L. BROWNE		
Location	SAL		

REMARKS:

RECORDED TESTER POSITION

Test No. 1





FORMATION TESTER RECOVERY DATA

TEST No.	1
TEST DEPTH	10680
OPEN HOLE TEST	☒
CASED HOLE TEST	☐

RECOVERY DATA

Gas (Total)	0	cuft
Condensate	0	cc
Oil	0	cc
Water	2100	cc
Mud	0	cc
Sand	0	cc

TOOL DATA

Type of tool	FIT COMBO	
Type of Sample shot	HTF	
Sample Unit size	2250	cc
Choke size	NONE	

PRESSURE DATA

Initial Shut in	5950	psi
Shut in Time	5	min
Sampling	0	psi
Sampling Time	1.2	min
Final Shut in	5950	psi
Shut in Time	3.8	min
Hydrostatic	6700	psi
Surface Chamber	100	psi

RECOVERY ANALYSIS

Free Gas	-	cuft
Oil		
API Gravity	- @ -	°F
GOR	-	
Water		
Rrf (Filtered)	0.812 @ 73	°F
Equivalent Cl	4000	ppm

MUD FILTRATE DATA

Rmf	0.628 @ 71	°F
Equivalent Cl	5800	ppm
Rw	@	°F
Equivalent Cl		ppm

REMARKS

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTRY AISTRALIA STATE VICTORIA

SCHLUMBERGER
FORMATION TESTER

ENCLOSURE 16a

OR. 342

34907

DIPMETER LOG INTERPRETATION

DATA ANALYSIS

COMPANY: **ESSO AUST LTD**
BASIN :
FIELD :
STATE : **Tasmania**
WELL : **Poonboon 1**
COUNTRY: **Aust**

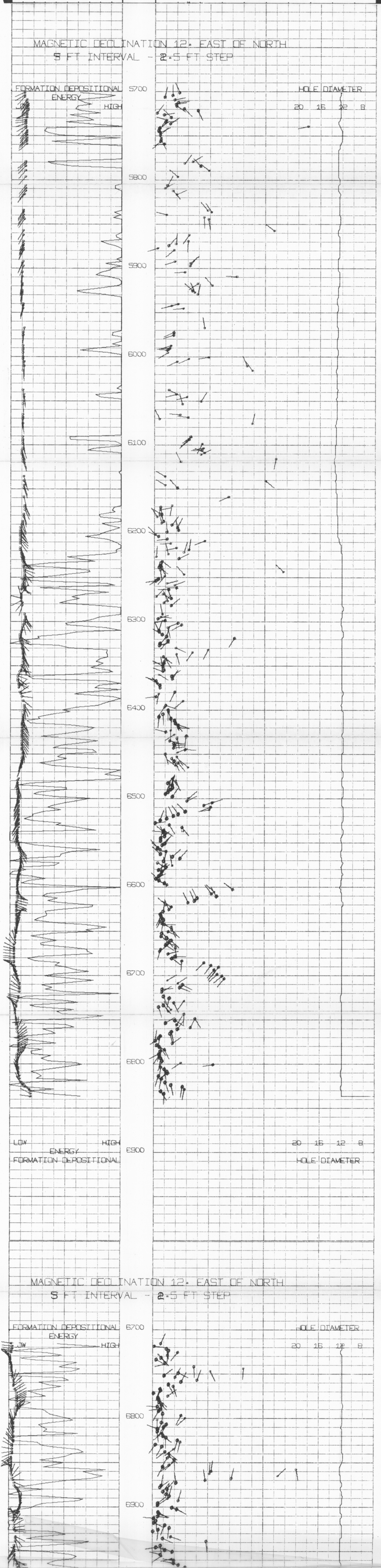
COMPANY: ESSO AUSTRALIA LIMITED
WELL : POONBOON 1
FIELD :
STATE : TAS.
COUNTRY: AUST.

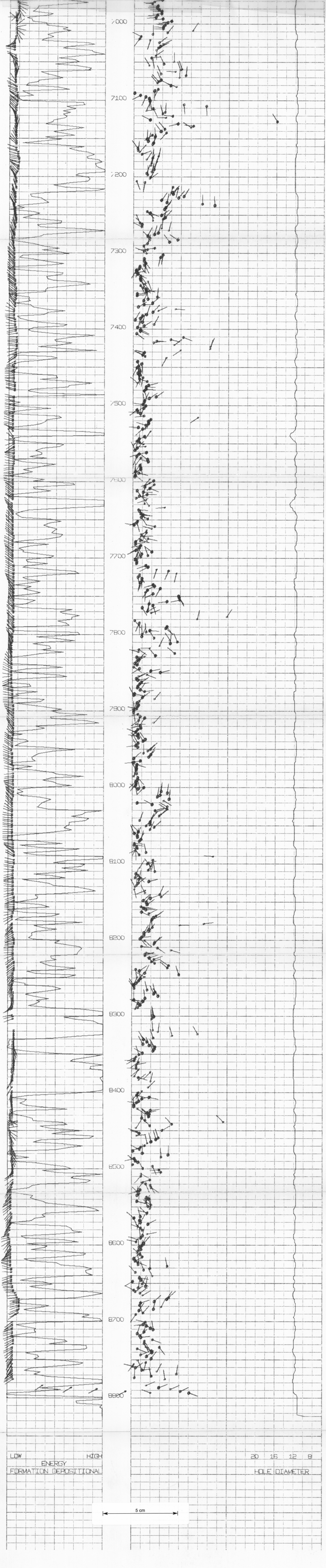
WELL DATA		DIP LOG DATA		INTERPRETATION DATA	
Coordinates lat	40°08' S	Top Logged Interval	5700'	Top Processed Interval	5700'
long	145°55' E	Bottom Logged Interval	8789'	Bottom Processed Interval	8789'
Log Datum & Elevation	32'	Depth Reached	8791'	Interval Processed	3089'
Nature of Datum	KB	Bottom Driller	8827'	Date Processed	26.9.72
Logging Contractor	Schlumberger	Bit Size	12¼"	Interpretation Program	DATA ANALYSIS
Other Logs Run	ISF/BHC, CIS FDC/CNL/GR HDT, ST	Date Logged	13.9.72	Computer	IBM 1130
		Recorded By	Chaffe	Plotter	IBM 1627
				Comparator	Automatic

REMARKS :

5 cm

HOLE DEVIATION & DIRECTION	DEPTH	DIP ANGLE AND DIRECTION
Degrees from vertical 1 2 3 4 5 6 7 8 9		● Excellent ● Good ● Poor 5 10 15 20 30 40 50 70 90





OFFSHORE 13

ENCLOSURE 16b

OR-342

349073

DATA ANALYSIS → DIPMETER LOG → INTERPRETATION

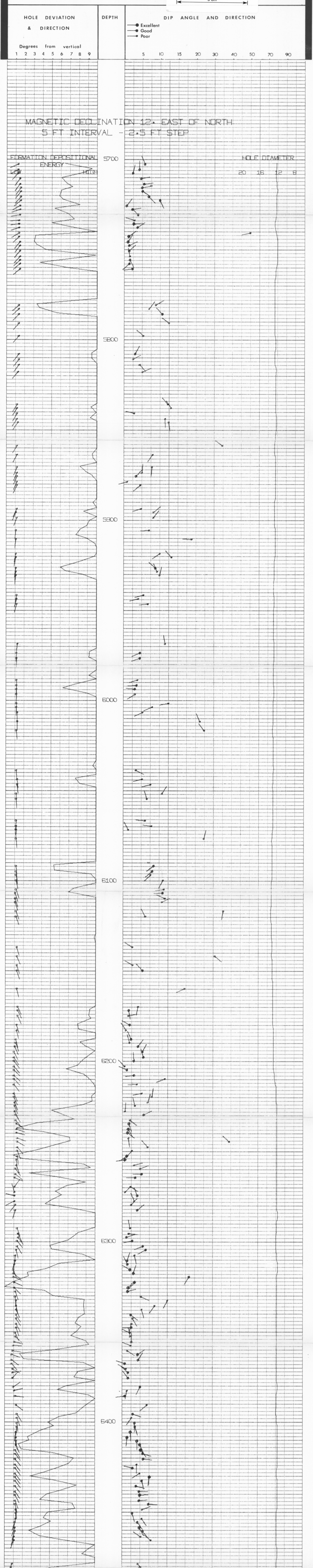
COMPANY: **ESSO AUST LTD**
BASIN :
FIELD :
STATE : **Tasmania**
WELL : **Poonboon1**
COUNTRY: **Aust**

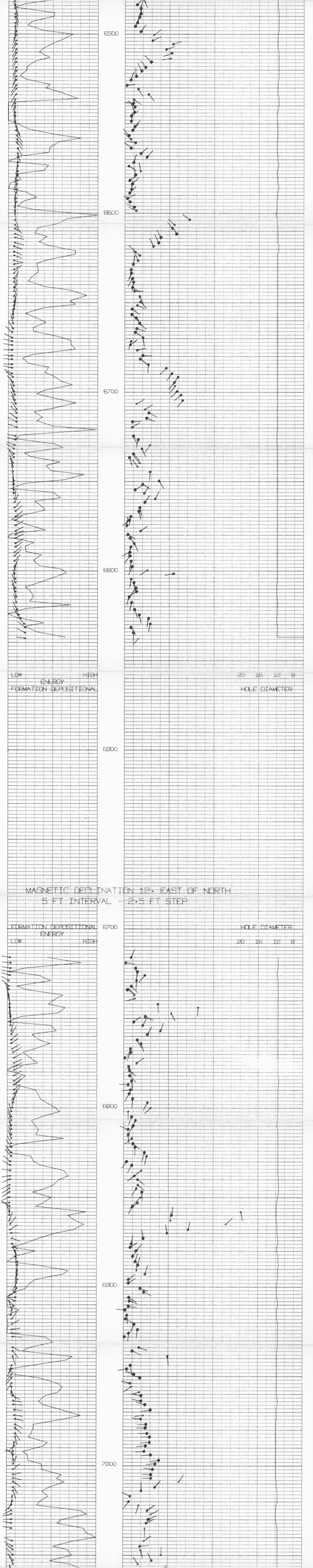
COMPANY: ESSO AUSTRALIA LIMITED
WELL : POONBOON #1
FIELD :
STATE : LAT.
COUNTRY: AUST.

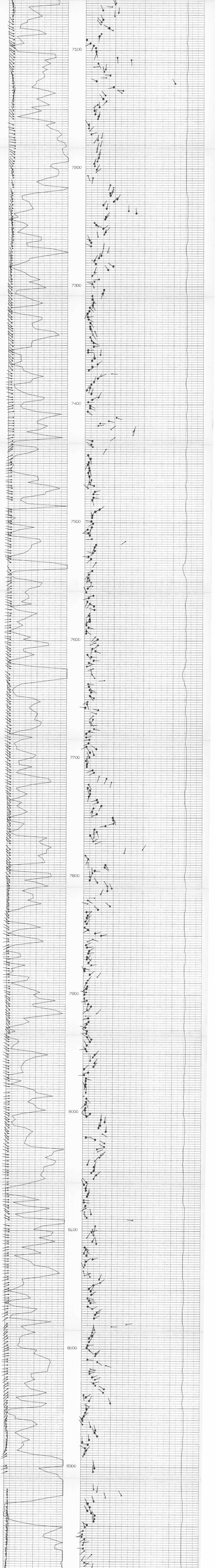
WELL DATA		DIP LOG DATA		INTERPRETATION DATA	
Coordinates lat	40°08' S	Top Logged Interval	5700'	Top Processed Interval	5700'
Coordinates long	145°55' E	Bottom Logged Interval	8789'	Bottom Processed Interval	8789'
Log Datum & Elevation	32'	Depth Reached	8791'	Interval Processed	3089'
Nature of Datum	KB	Bottom Driller	8827'	Date Processed	26.9.72
Logging Contractor	Schlumberger	Bit Size	12¼"	Interpretation Program	DATA ANALYSIS
Other Logs Run	ISF/BHC, CIS FDC/CNI/GR HDT, ST	Date Logged	13.9.72	Computer	IBM 1130
		Recorded By	Chaffe	Plotter	IBM 1627
				Comparator	Automatic

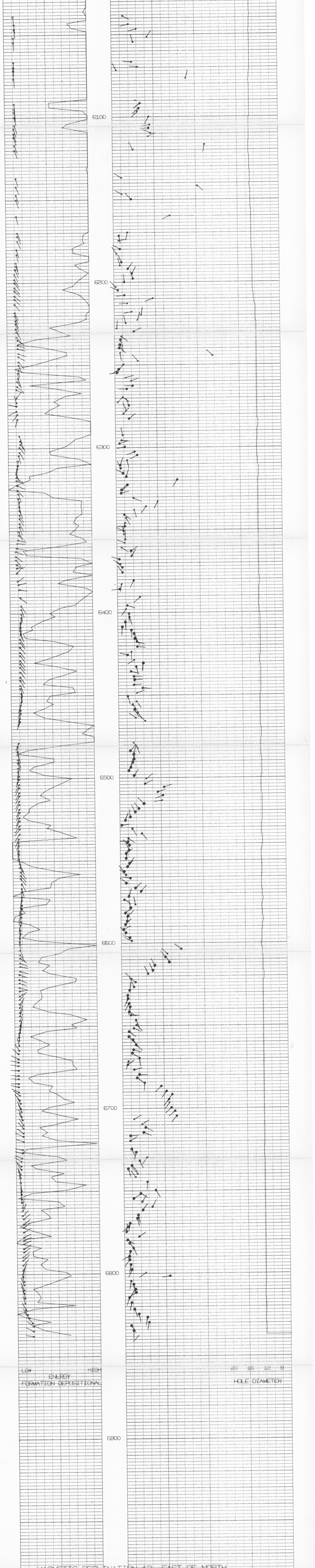
REMARKS :

5 cm

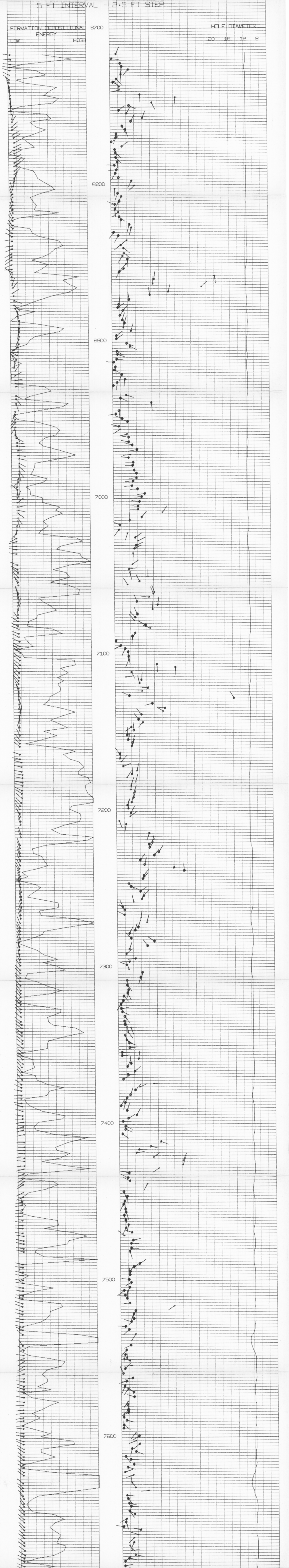


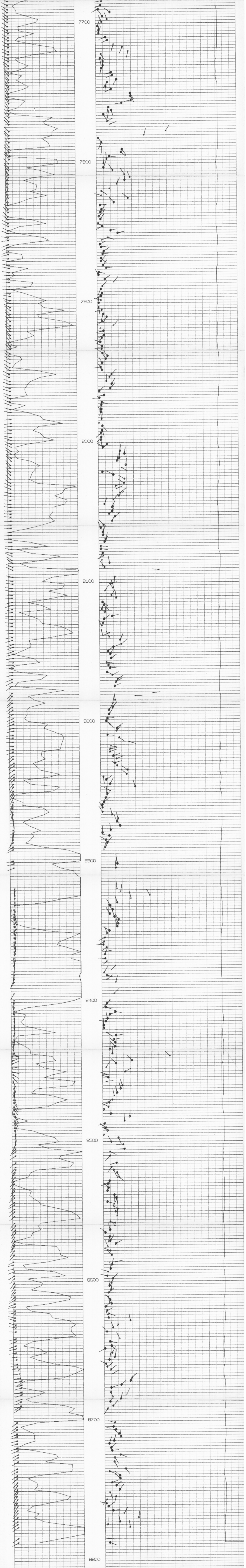






MAGNETIC DECLINATION 12° EAST OF NORTH





ENCLOSURE 16c

349074

OFFSHORE 13

OR-342

DATA ANALYSIS → DIPMETER LOG → INTERPRETATION

COMPANY: **Esso Australia Ltd**
BASIN :
FIELD :
STATE : **Tas.**
WELL : **Poonboon 1**
COUNTRY: **Australia**

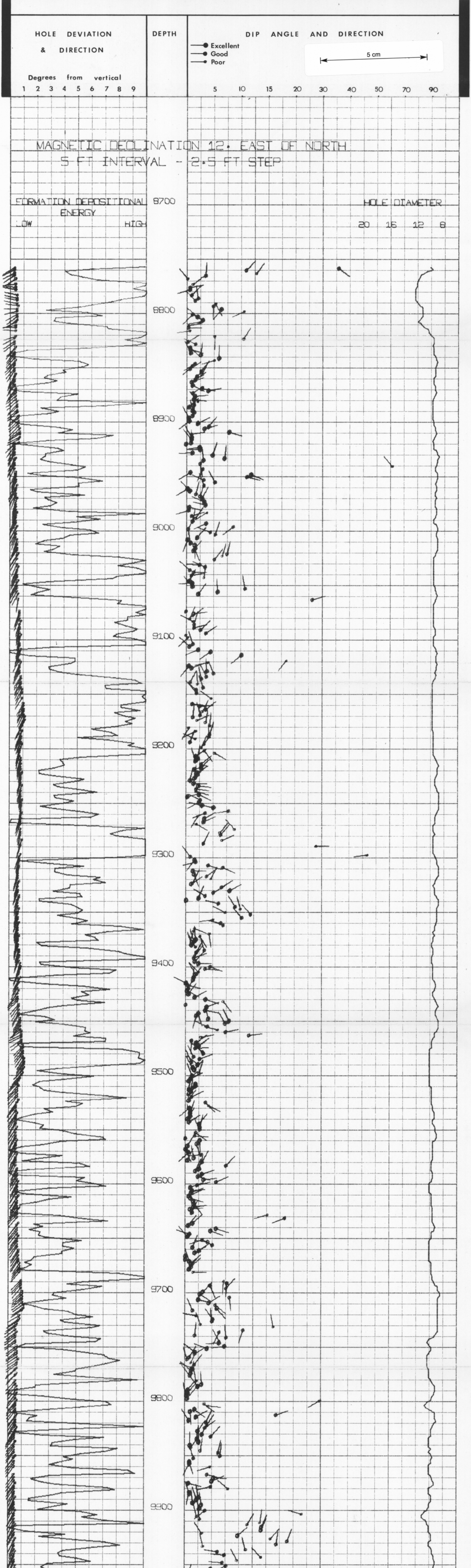
COMPANY: ESSO AUSTRALIA LTD.
WELL : POONBOON #1
FIELD :
STATE : TAS.
COUNTRY: AUST.

WELL DATA
Coordinates lat : 40°08' S
long : 145°55' E
Log Datum & Elevation: 32'
Nature of Datum : KB
Logging Contractor: Schlumberger
Other Logs Run : FIT, FDC-GR

DIP LOG DATA
Top Logged Interval: 8756'
Bottom Logged Interval: 10691'
Depth Reached : 10692'
Bottom Driller : 10690'
Bit Size : 8½"
Date Logged : 29.9.72
Recorded By : Chaffe

INTERPRETATION DATA
Top Processed Interval: 8756'
Bottom Processed Interval: 10691'
Interval Processed : 1935'
Date Processed : 6.10.72
Interpretation Program: DATA ANALYSIS
Computer : IBM 1130
Plotter : IBM 1627
Comparator : Automatic

REMARKS :



ENCLOSURE 16d

349075

OFFSHORE 13

OR.342

DATA ANALYSIS

→ DIPMETER LOG
→ INTERPRETATION

COMPANY: **Esso Australia Ltd**
BASIN :
FIELD :
STATE : **Tas.**
WELL : **Poonboon 1**
COUNTRY: **Australia**

WELL DATA

Coordinates lat : 40°08' S
long : 145°55' E
Log Datum & Elevation: 32'
Nature of Datum : KB
Logging Contractor: Schlumberger
Other Logs Run : FIT, FDC-GR

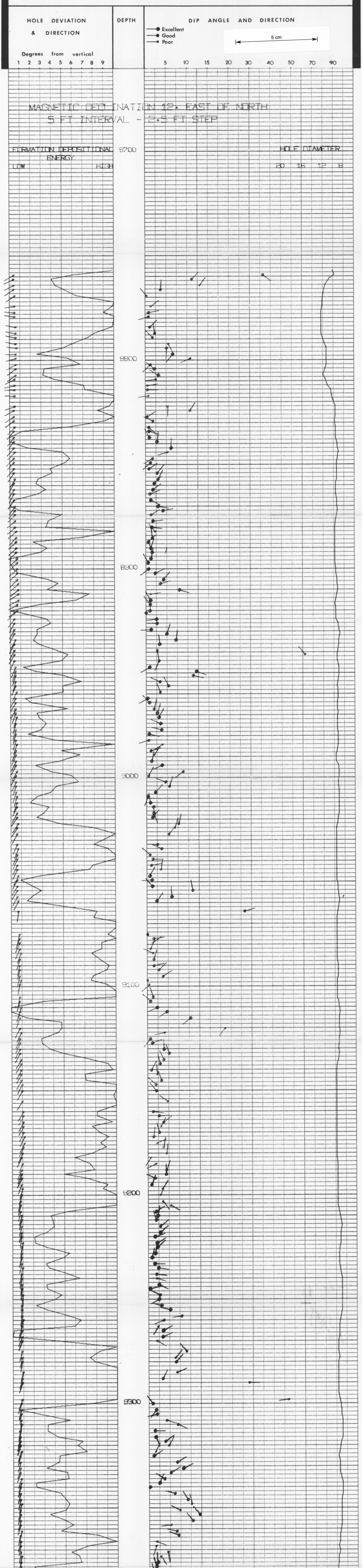
DIP LOG DATA

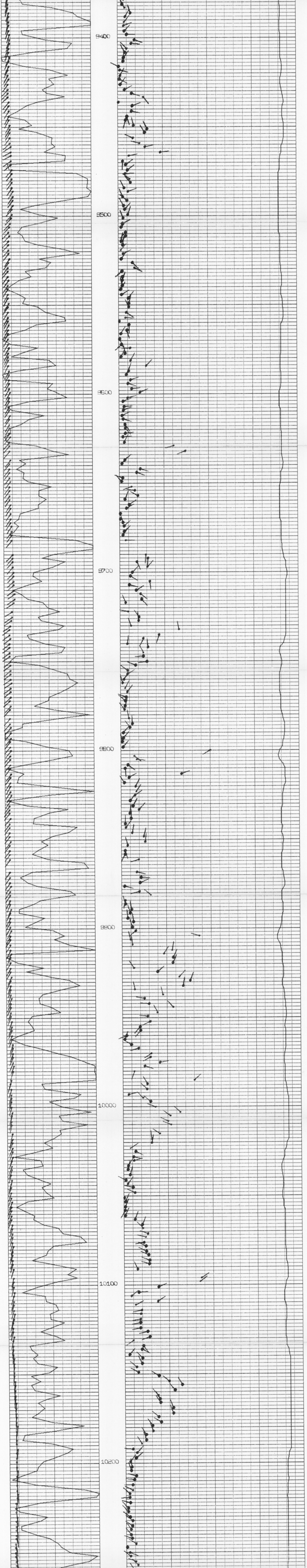
Top Logged Interval: 8756'
Bottom Logged Interval: 10691'
Depth Reached : 10692'
Bottom Driller : 10690'
Bit Size : 8½"
Date Logged : 29.9.72
Recorded By : Chaffe

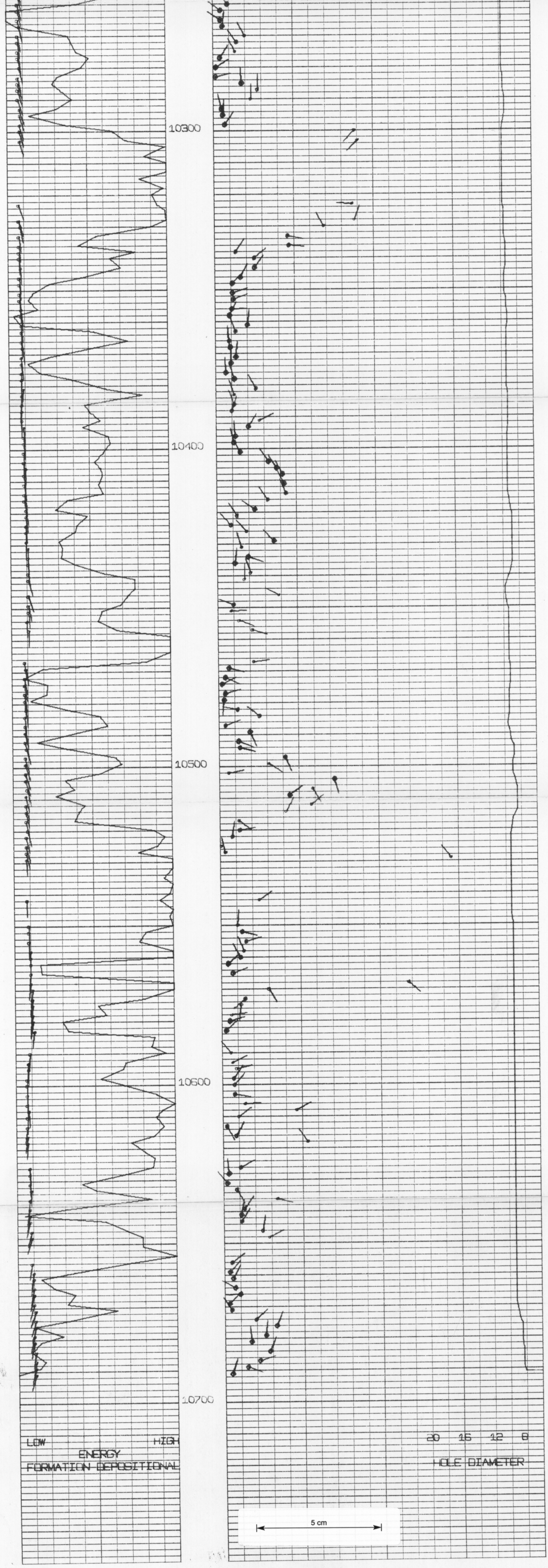
INTERPRETATION DATA

Top Processed Interval: 8756'
Bottom Processed Interval: 10691'
Interval Processed : 1935'
Date Processed : 6.10.72
Interpretation Program: DATA ANALYSIS
Computer : IBM 1130
Plotter : IBM 1627
Comparator : Automatic

REMARKS :







OR_342

349076

ENCLOSURE 17a

Schlumberger

FOUR – ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL POONBOON 1
COMPANY ESSO AUSTRALIA

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION LAT. 40° 08'S LONG. 145° 55'E
Sec. Twp. Rge.
Other Services: ISF/BHC CIS HDT

Permanent Datum: MSL, Elev. 0
Log Measured From KB, 32 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 32'
D.F. 31'
G.L. -259

Date	13 SEP '72		
Run No.	1 10"=100		
Depth—Driller	8827		
Depth—Logger	8791		
Btm. Log Interval	8789		
Top Log Interval	5700		
Casing—Driller	13 3/8 @ 3032	@	@
Casing—Logger	3028		
Bit Size	12¼"		
Type Fluid in Hole	LIGNOSULPHONATE		
Dens. | Visc.	10.2 | 43		
pH | Fluid Loss	10.5 | 5 ml	ml	ml
Source of Sample	FLOWLINE		
R_m @ Meas. Temp.	1.04 @ 72 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	.50 @ 72 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.26 @ 72 °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS		
R_m @ BHT	.30 @ 212 °F	@ °F	@ °F
Time Since Circ.	18 HOURS		
Max. Rec. Temp.	212 212 °F	°F	°F
Equip. | Location	2080 | SAL		
Recorded By	CHAFFE		
Witnessed By	MEBBERSON		

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

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

Run No.	1	2	3	4
Tool Type	HDT-E			
HDM No.	G-742			
HDE No.	CB-847			
HDS No.	F-717			
DPI No.	774			
Magnetic Declination	12° 11' E			
TTR-E	863			
CPW-E	769			
HDP-D-	764			

CHECK IF USED: UG ☒ CG ☐ SAH ☐ 5" FILM ☐ 10" FILM ☒ 60" RECORD ☒ ANALOG ☒ DIGITAL ☒

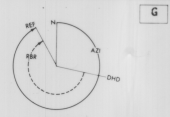
REMARKS

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

DEFINITIONS

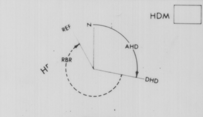
(DHD) HIGH SIDE OF TOOL = Direction from center of tool to upper side of tool.
(N) NORTH = Direction from center of tool to Magnetic North.
(REF) REFERENCE ELECTRODE = Direction from center of tool to #1 electrode.
(AZI) AZIMUTH OF REFERENCE ELECTRODE = Clockwise angle from N to REF.
(RBR) RELATIVE BEARING = Clockwise angle from DHD to REF.
(AHD) AZIMUTH OF HOLE DEVIATION (TOOL AXIS) = Clockwise angle from N to DHD.

G



EXAMPLE
HDM – Low Angle Unit (0-36°)
AZI (solid curve) = 330°
RBR (dotted curve) = 230°
AHD = AZI – RBR = 330° – 230° = 100°

HDM



EXAMPLE
HDM – High Angle Unit (0-72°)
AHD (solid curve) = 100°
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

ROLL NO.	INTERVAL
1	8789-6710
2	6850-5700

ORIENTATION

AZIMUTH 0° 120° 240° 360°

RELATIVE BEARING 0° 120° 240° 360°

DEVIATION 0° 9°

DEPTHS

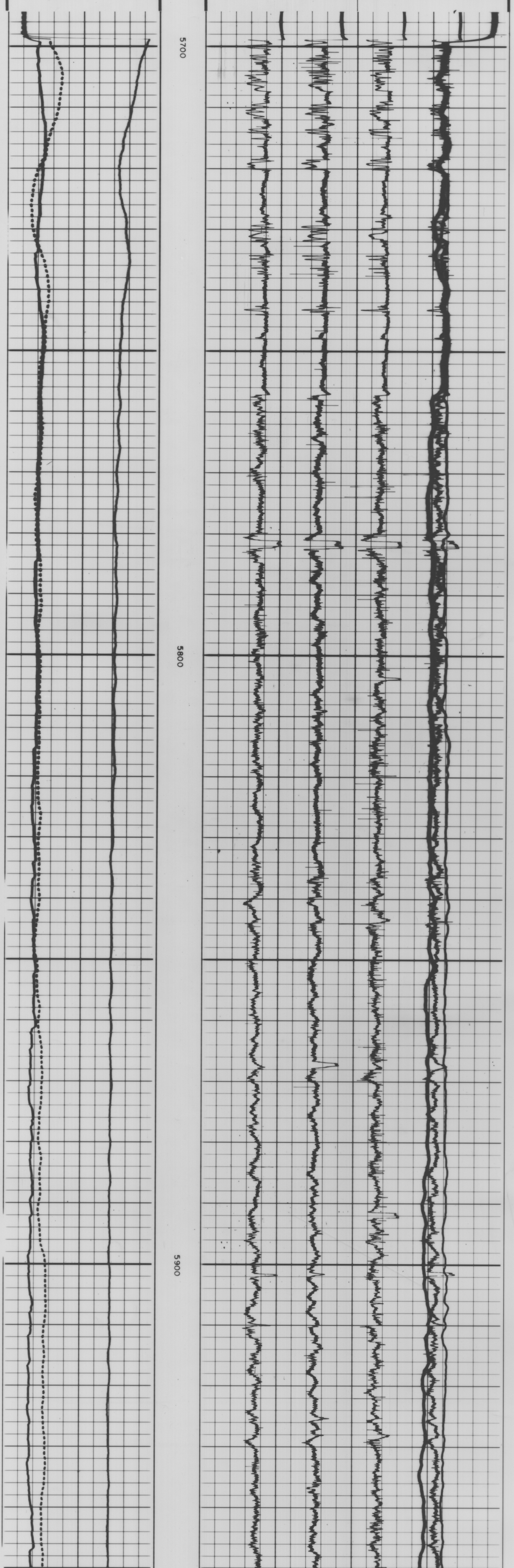
CORRELATION CURVES
← CONDUCTIVITY

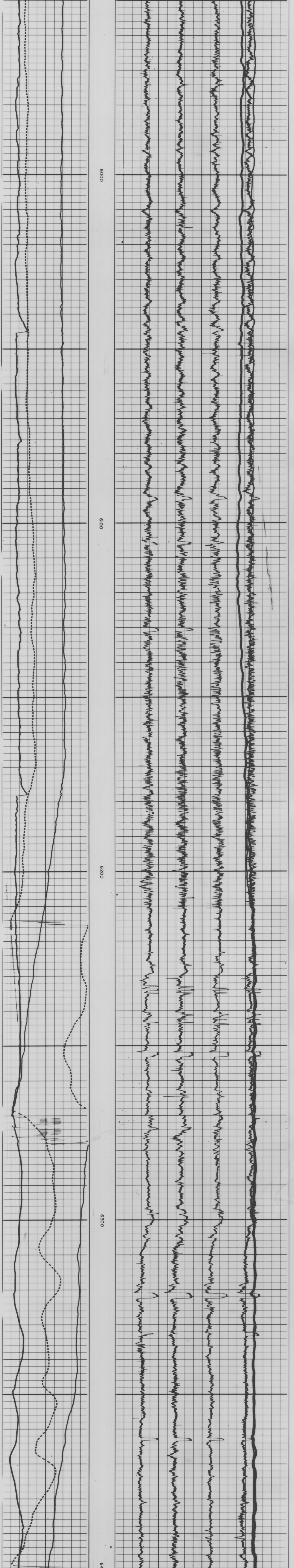
NO. 1 S. O.
NO. 2 S. O.
NO. 3 S. O.
NO. 4 S. O.

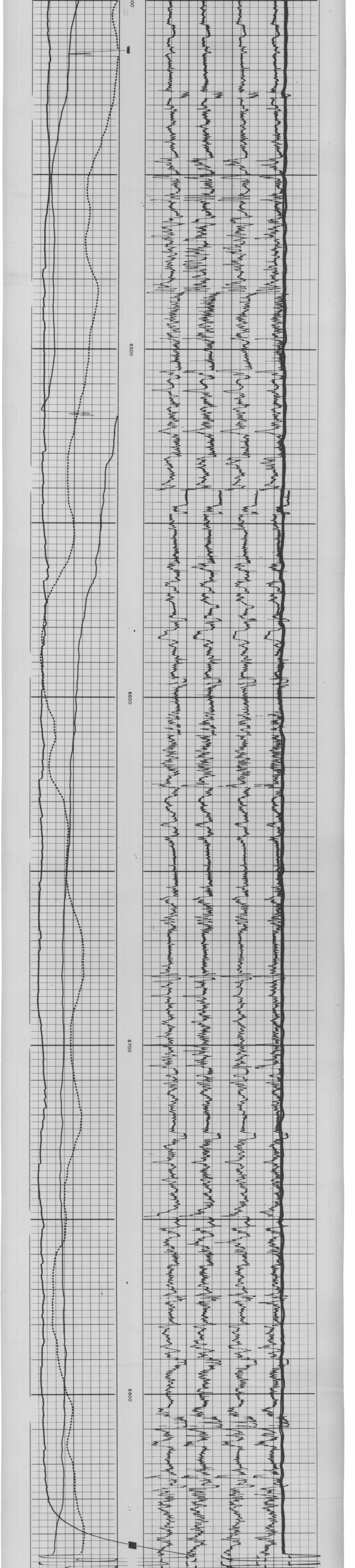
5 cm

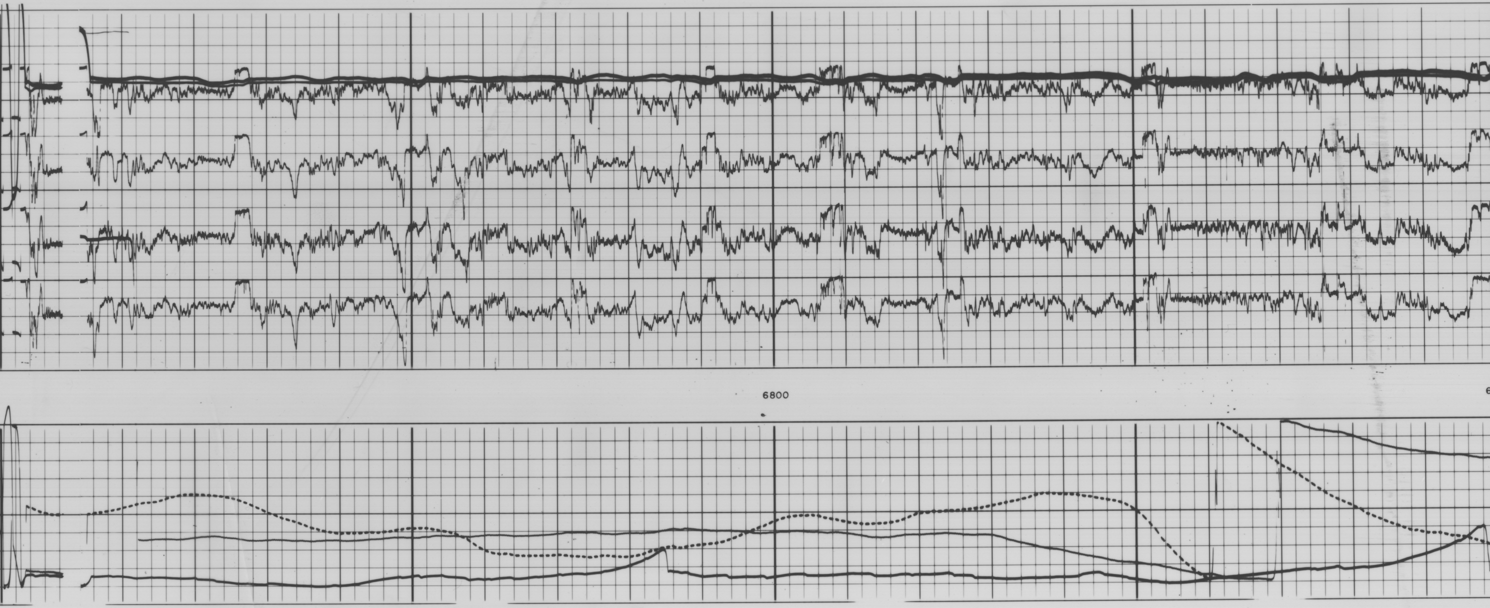
NOTE: DIGITAL DIPMETERS
END OF RECORD GAP IS ON DEVIATION CURVE.
LONG SPACING MARK IS ON CALIPER 2 - 4.

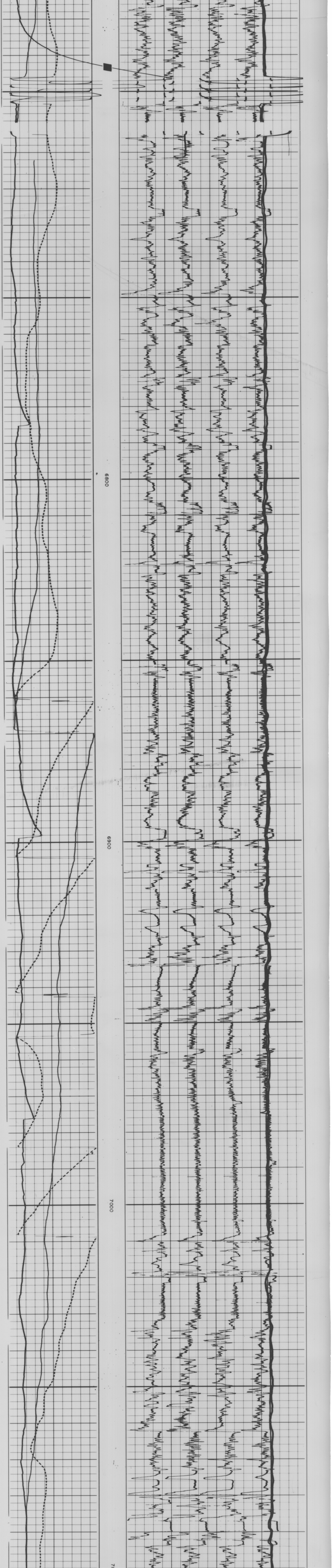
4 ARM CALIPER
24" 1 - 3 CALIPER 4"
24" 2 - 4 CALIPER 4"
18" 16" 14" 12" 10" 8" 6"

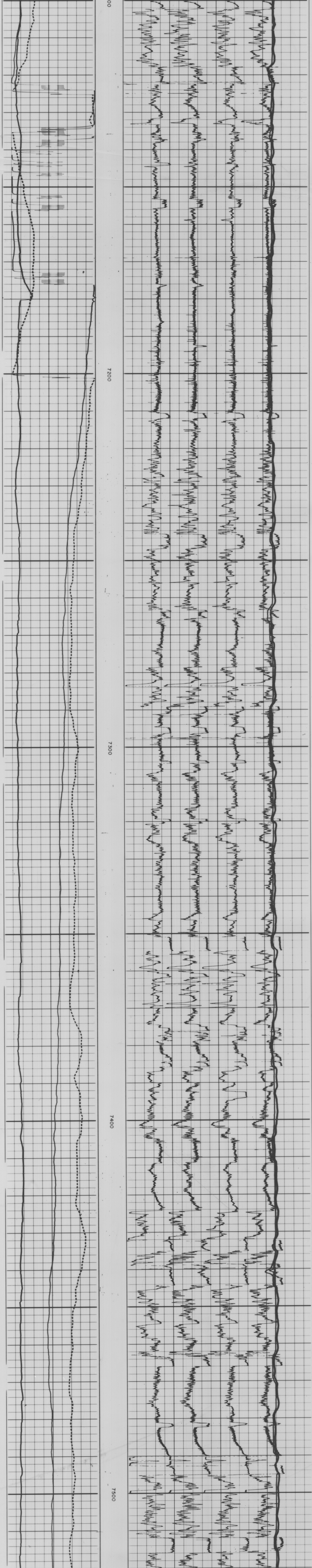


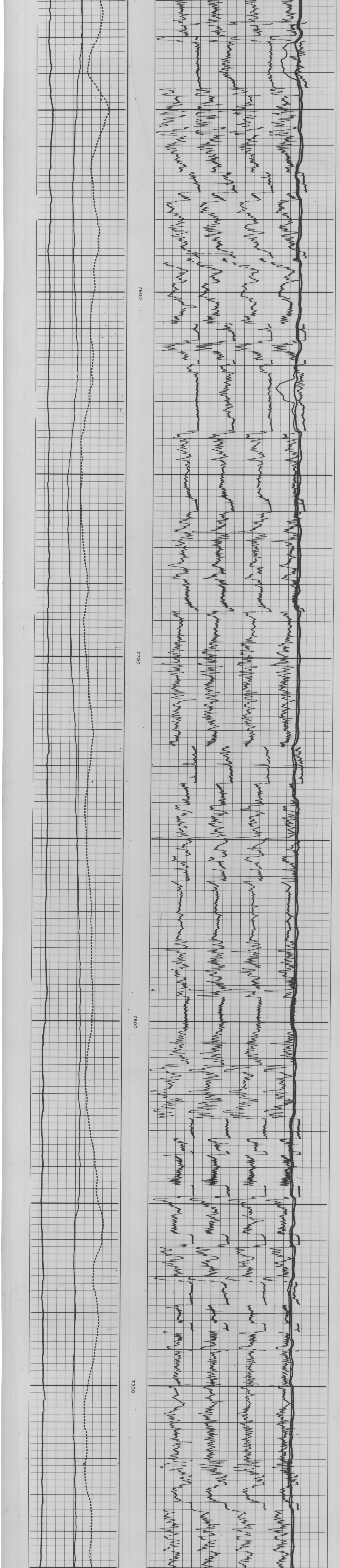


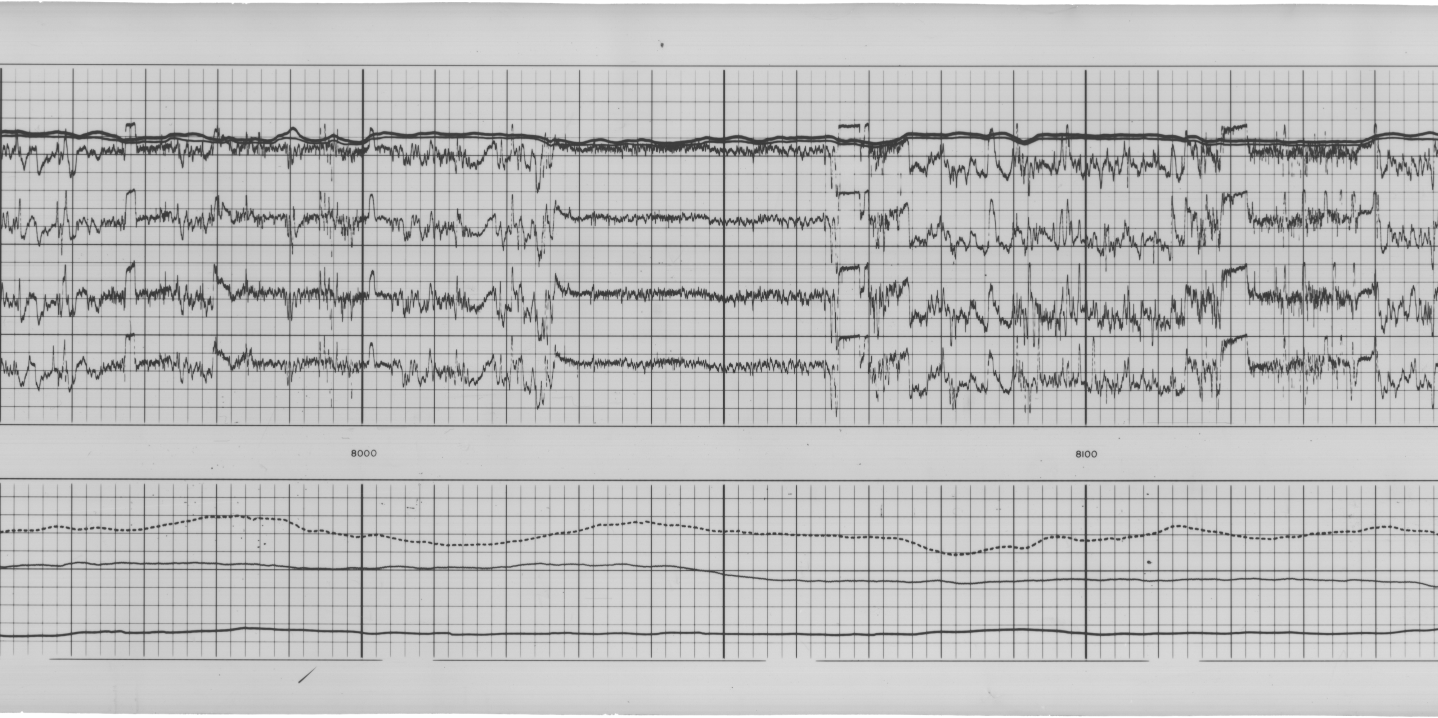





6800
6900
7000


7200
7300
7400
7500


7600
7700
7800
7900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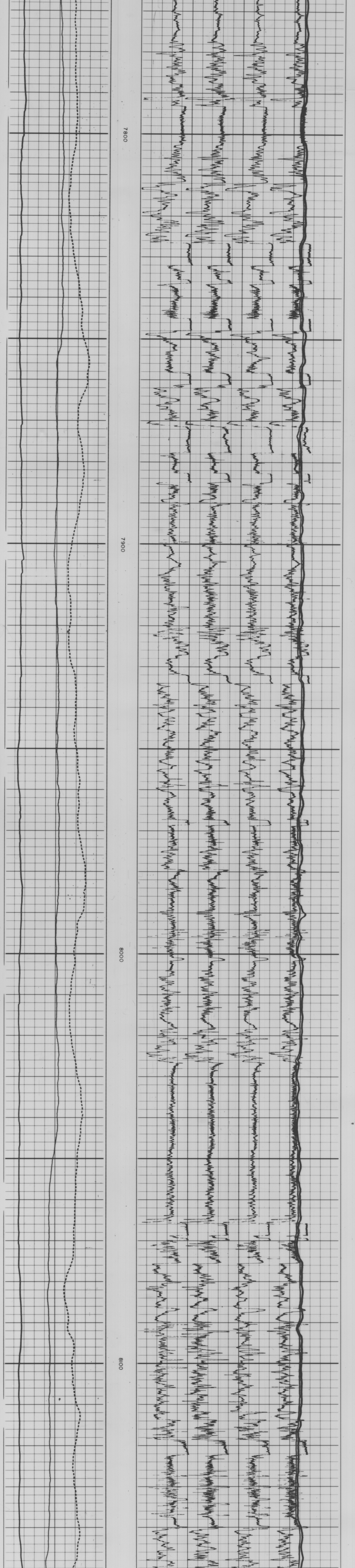
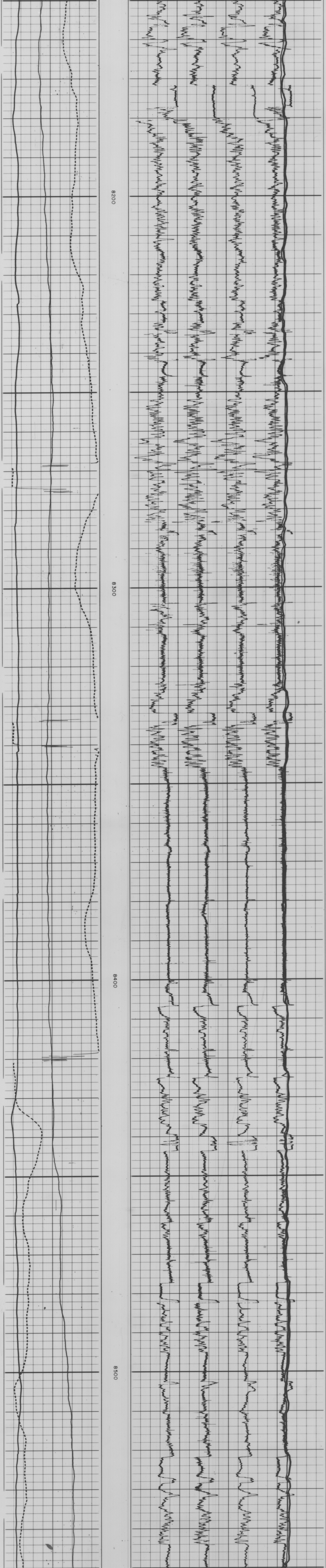
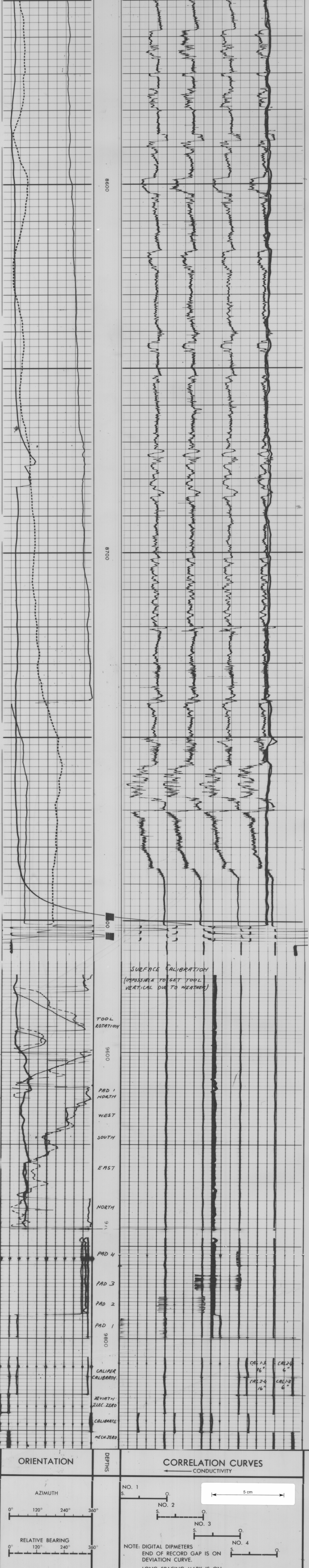






ORIENTATION	DEPTHS	CORRELATION CURVES ← CONDUCTIVITY

AZIMUTH
0° 120° 240° 360°

RELATIVE BEARING
0° 120° 240° 360°

DEVIATION
0° 9°

NO. 1 S. O.
NO. 2 S. O.
NO. 3 S. O.
NO. 4 S. O.

5 cm

NOTE: DIGITAL DIPMETERS
END OF RECORD GAP IS ON DEVIATION CURVE.
LONG SPACING MARK IS ON CALIPER 2 - 4.

4 ARM CALIPER
24" 1 - 3 CALIPER 4"
24" 2 - 4 CALIPER 4"
18" 16" 14" 12" 10" 8" 6"

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA

SCHL. FR 8789
SCHL. TD 8791
DRLR TD 8827
Elev:
KB 32'
DF 31'
GL -259'

OR 342

349077

ENCLOSURE 17b

Schlumberger

FOUR – ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL POONBOON 1
COMPANY ESSO AUSTRALIA LTD

COMPANY ESSO AUSTRALIA LIMITED
WELL POONBOON 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION LAT: 40° 08'S LONG: 145° 55'E
Other Services: FIT FDC/GR
Sec. Twp. Rge.

Permanent Datum: MSL, Elev. 0
Log Measured From KB, 32 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 32'
D.F. 31'
G.L. -259'

Date	29 SEPT. 72			
Run No.	2 10"=100'			
Depth—Driller	10690			
Depth—Logger	10692			
Btm. Log Interval	10691			
Top Log Interval	8756			
Casing—Driller	9 5/8 @8761	@	@	@
Casing—Logger	8756			
Bit Size	8½			
Type Fluid in Hole	LIGNOSULPHONATE			
Dens. | Visc.	12.2 | 46			
pH | Fluid Loss	9.8 | 5.6 ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	1.1 @69 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	0.628 @71 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.19 @69 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS			
R_m @ BHT	0.31 @248 °F	@ °F	@ °F	@ °F
Time Since Circ.	12 HOURS			
Max. Rec. Temp.	248 °F	°F	°F	°F
Equip. | Location	2080 | SAL			
Recorded By	CHAFFE			
Witnessed By	BLACK			

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

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

Run No.	1	2	3	4
Tool Type		HDT-E		
HDM No.		G-742		
HDE No.		CB-847		
HDS No.		F-717		
DPI No.		772		
Magnetic Declination		12° 11'E		
HDP-D		764		
FTR-E		836		
CPW-E		769		

CHECK IF USED: UG ☒ CG ☐ SAH ☐ 5" FILM ☐ 10" FILM ☒ 60" RECORD ☒ ANALOG ☒ DIGITAL ☒

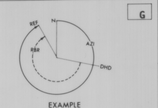
REMARKS DEVAITION CURVE SHOWS SPURIOUS KICKS OVER -10' INTERVALS IN SPOTS. TOOL STICKING OVER BOTTOM 200' COULD NOT GO DOWN FOR REPEAT RUN OVER THESE ZONES AS CUTTING IN TOOL ARMS PREVENTED CLOSING.

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

DEFINITIONS

(DHD) HIGH SIDE OF TOOL = Direction from center of tool to upper side of tool.
(N) NORTH = Direction from center of tool to Magnetic North.
(REF) REFERENCE ELECTRODE = Direction from center of tool to #1 electrode.
(AZI) AZIMUTH OF REFERENCE ELECTRODE = Clockwise angle from N to REF.
(RBR) RELATIVE BEARING = Clockwise angle from DHD to REF.
(AHD) AZIMUTH OF HOLE DEVIATION (TOOL AXIS) = Clockwise angle from N to DHD.

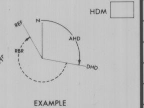
G



EXAMPLE

HDM – Low Angle Unit (0-36°)
AZI (solid curve) = 330°
RBR (dotted curve) = 230°
AHD = AZI – RBR = 330° – 230° = 100°

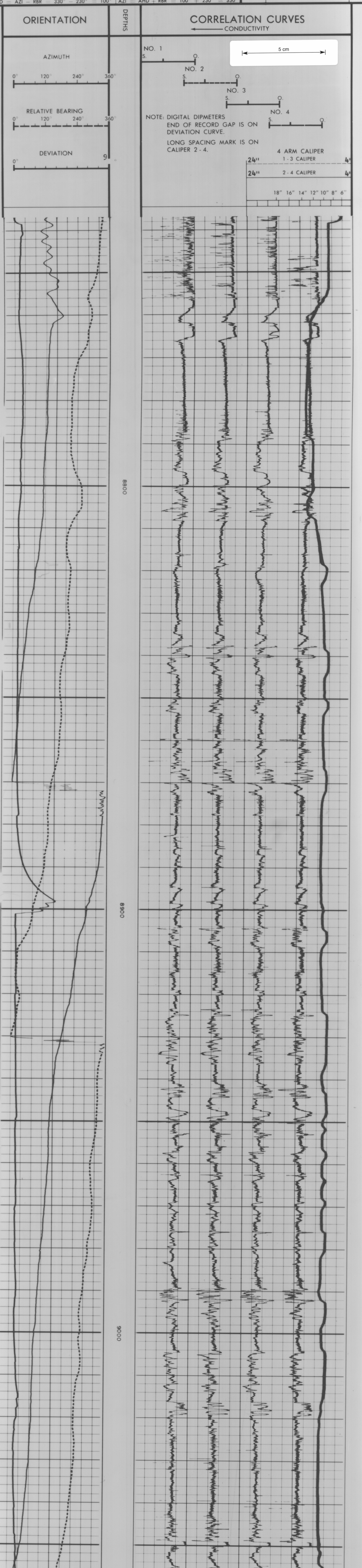
HDM



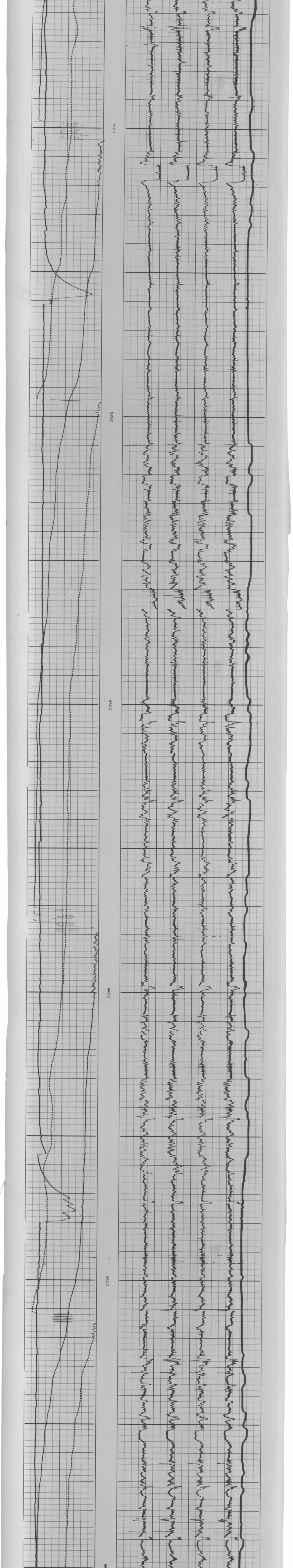
EXAMPLE

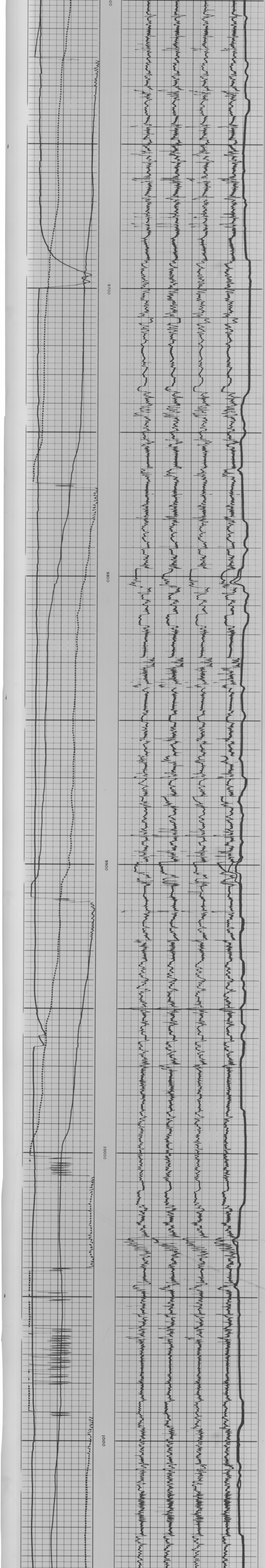
HDM – High Angle Unit (0-72°)
AHD (solid curve) = 100
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

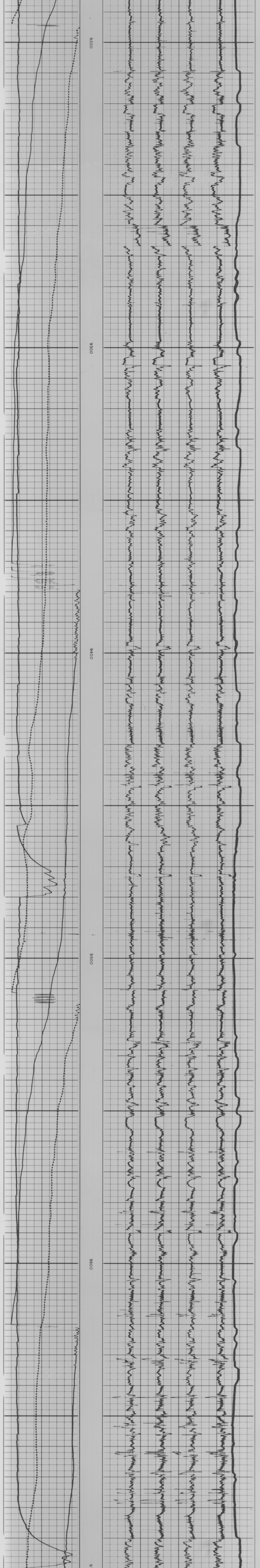
ROLL NO.	INTERVAL
1	10,691-8756

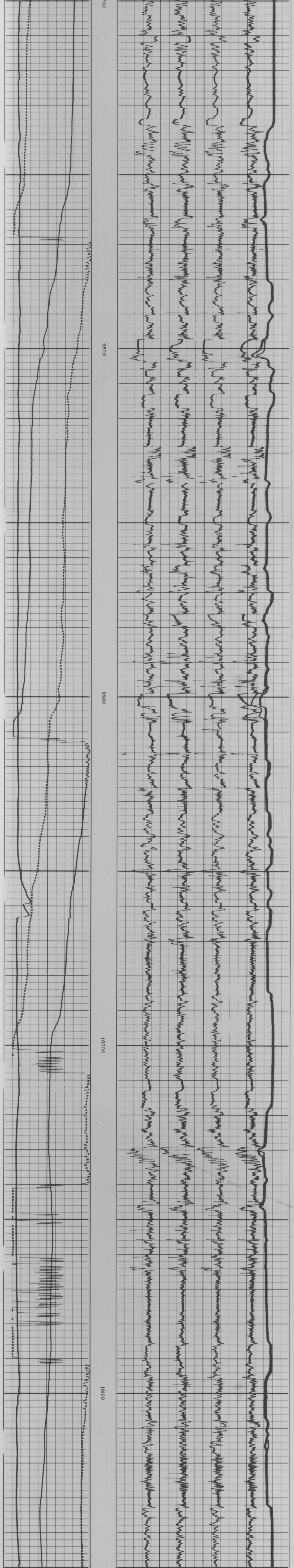


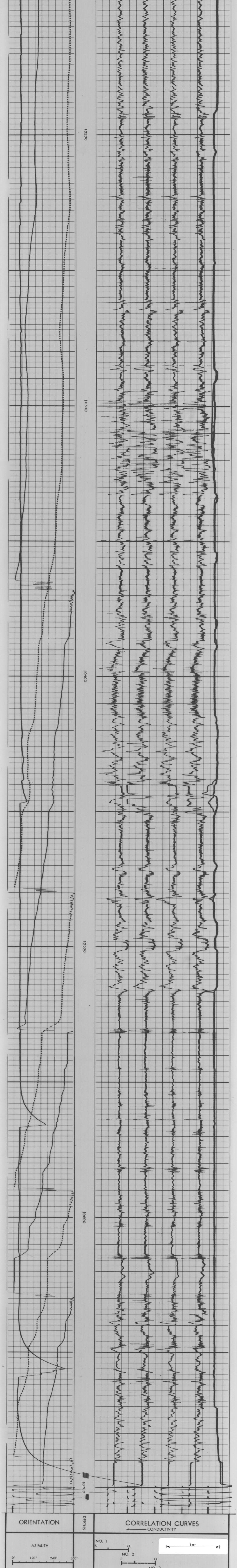
NOTE: DIGITAL DIPMETERS END OF RECORD GAP IS ON DEVIATION CURVE.
LONG SPACING MARK IS ON CALIPER 2 - 4.











ORIENTATION	DEPTHS	CORRELATION CURVES ← CONDUCTIVITY

AZIMUTH

0° 120° 240° 360°

RELATIVE BEARING

0° 120° 240° 360°

DEVIATION

0° 9°

NO. 1

S. O.

NO. 2

S. O.

NO. 3

S. O.

NO. 4

S. O.

5 cm

NOTE: DIGITAL DIPMETERS
END OF RECORD GAP IS ON DEVIATION CURVE.

LONG SPACING MARK IS ON CALIPER 2 - 4.

4 ARM CALIPER

24" 1 - 3 CALIPER 4"

24" 2 - 4 CALIPER 4"

18" 16" 14" 12" 10" 8" 6"

COMPANY ESSO AUSTRALIA LIMITED

WELL POONBOON 1

FIELD WILDCAT

COUNTY AUSTRALIA STATE TASMANIA

SCHL. FR 10,691

SCHL. TD 10,692

DRLR TD 10,690

Elev:

KB 32

DF 31

GL -259

349078

OR-342

ENCLOSURE 18

AMOCO PRODUCTION COMPANY

ESSO
DATE=07/21/86

POONBOON 1

Z00112

COMPOSITE LOG

5 cm

NCNPLC
SC: PERCNT
45. -15.

DNDNOC
SC: GM/CC
1.85 2.85

DNGROC
SC: API
0. 150.

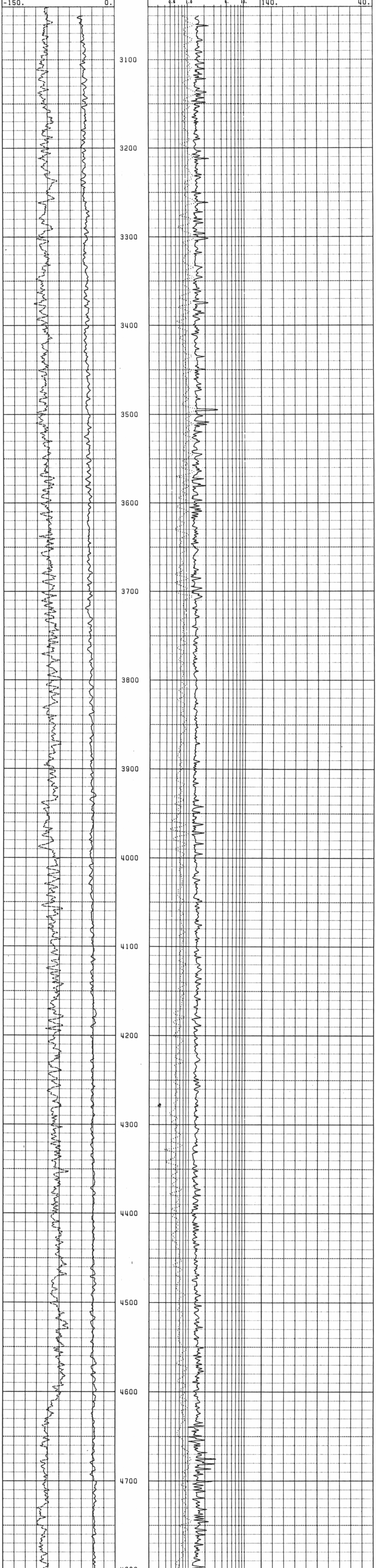
XXSFOC
SC: OHMS
0.2 20.0

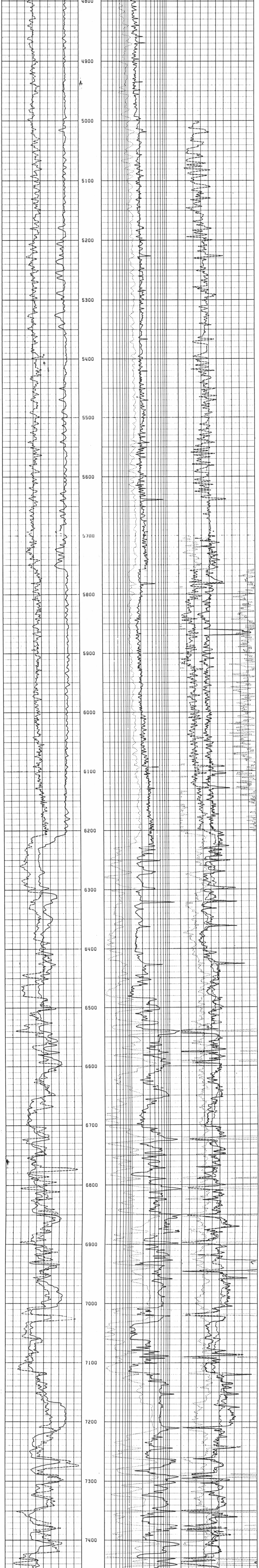
NCNPOC
SC: PERCNT
45. -15.

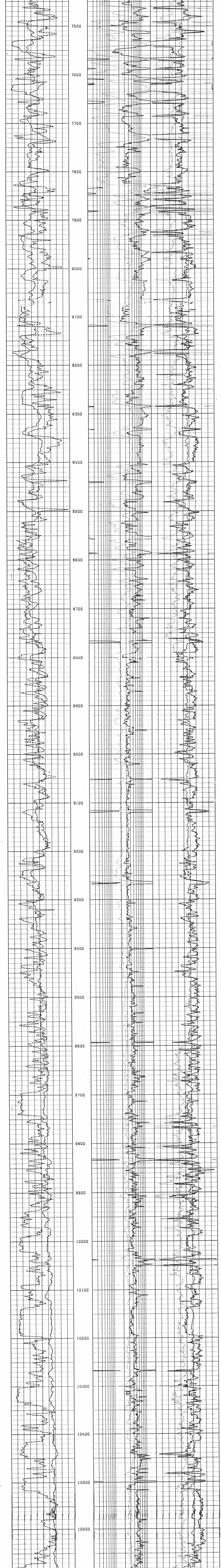
XXSPOC
SC: M VOLT
-150. 0.

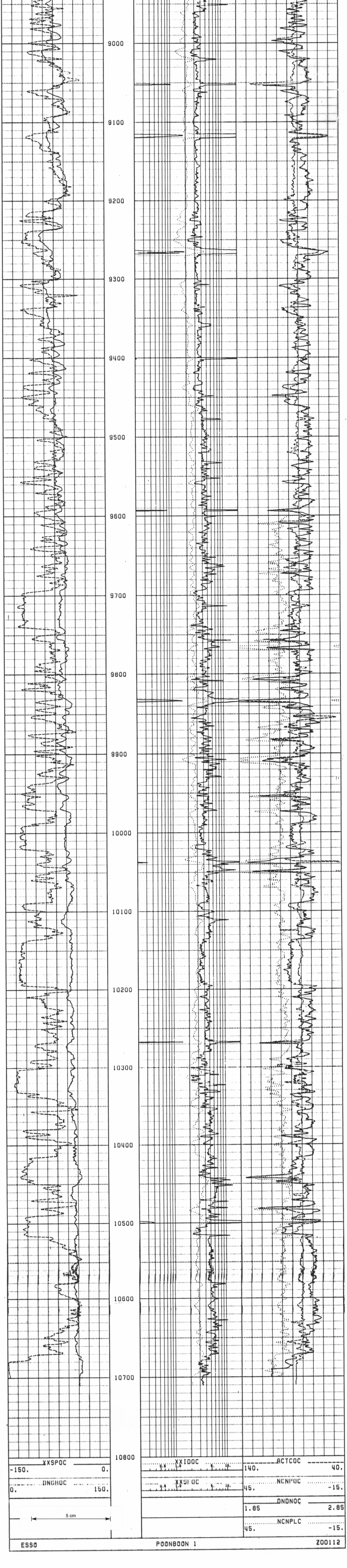
XXIDOC
SC: OHMS
0.2 20.0

ACTCOC
SC: M SECS
140. 40.








9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000
10100
10200
10300
10400
10500
10600
10700
10800
XXSPOC
-150.
0.
DNGHOC
0.
150.
5 cm
XXIDOC
XXSFOC
ACTCOC
140.
40.
NCNPOC
45.
-15.
DNDNOC
1.85
2.85
NCNPLC
45.
-15.
ESSO
POONBOON 1
Z00112