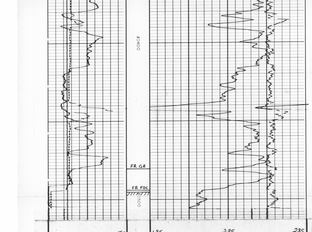

CALIPER
GAMMA RAY
BULK DENSITY
CORRECTION
RETEST SECTION



0	150	5"
CAMMA RAY		
API UNITS		
6"	16"	
CALIPER		
HOLE DIAM. IN INCHES		

1.85	2.85	2.95
0.85	1.85	1.95

BULK DENSITY
GRAMS/CC.

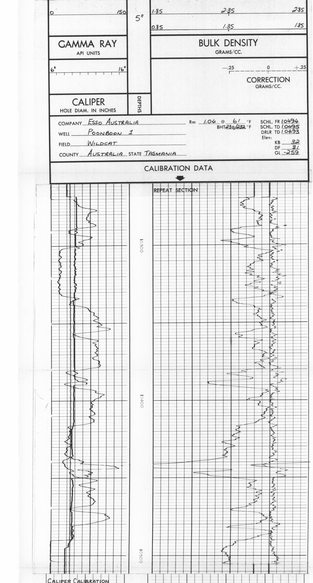
-.35 0 +.35
CORRECTION
GRAMS/CC.

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

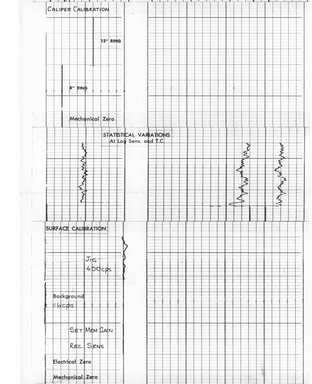
Rm 1.06 @ 61° F
Rmf 0.83 @ 61° F
Bit 8 1/2"

SCHL FR 10939
SCHL TO 10955
DRLR TO 10955
Elev.
KB 50
DF 31
GL -250

CALIBRATION DATA



REPEAT SECTION



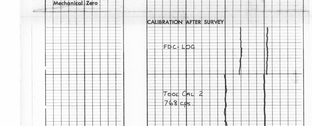
CALIPER CALIBRATION

19" RING

9" RING

Mechanical Zero

STATISTICAL VARIATIONS
At Log Sens. and T.C.



SURFACE CALIBRATION

Jig
4 Dodge

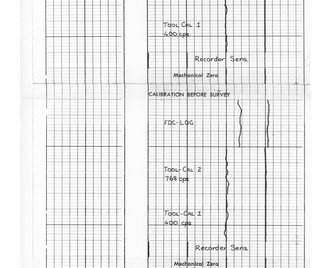
Background
11 units

Set Mem Zero

Rec. Sens.

Electrical Zero

Mechanical Zero



CALIBRATION AFTER SURVEY

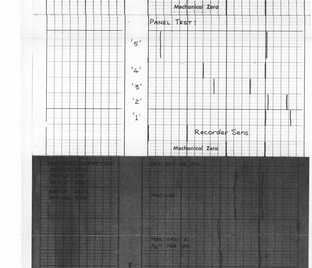
FDC LOG

Tool Cal. 2
768 cps

Tool Cal. 1
400 cps

Recorder Sens.

Mechanical Zero



CALIBRATION BEFORE SURVEY

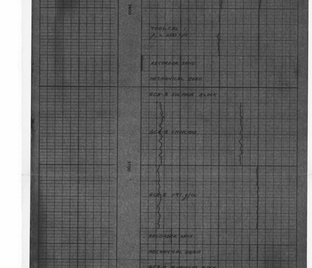
FDC LOG

Tool Cal. 2
768 cps

Tool Cal. 1
400 cps

Recorder Sens.

Mechanical Zero



PANEL TEST:

'5'

'4'

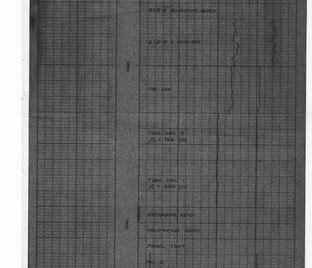
'3'

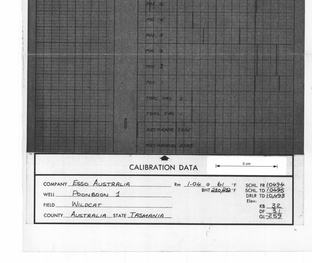
'2'

'1'

Recorder Sens.

Mechanical Zero





CALIBRATION DATA

5 cm

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

Rm 1.06 @ 61° F
Rmf 0.83 @ 61° F
Bit 8 1/2"

SCHL FR 10939
SCHL TO 10955
DRLR TO 10955
Elev.
KB 50
DF 31
GL -250

SCHLUMBERGER

COMPENSATED

FORMATION DENSITY LOG

COMPANY ESSO AUSTRALIA LIMITED

WELL POORWOOR 1

FIELD WILDCAT

COUNTY AUSTRALIA STATE TASMANIA

Other Services: DIL SNP

Permanent Datum: G.L. Elev.: 0 ft. above Perm. Datum

Log Measured From: K.B. 32 ft. above Perm. Datum

Drilling Measured From: R.T.

Elev.: K.B. 32 | G.L. 0 | D.F. 31

Date: 1-12-69

Run No.: ONE

Depth-Driller: 10,691

Depth-Logger: 10,692

Bottom Logged Interval: 10,690

Top Logged Interval: 10,000

Type Fluid in Hole: SALT GEL

Salinity, PPM Cl: 19,000

Density: 9.9

Level: FULL

Max. Rec. Temp. Deg. F: 200

Operating Rig Time: 24 HRS

Recorded By: R. BAIRD

Witnessed By: MR. TOOP

COMPANY ESSO AUSTRALIA LIMITED

WELL POORWOOR 1

FIELD WILDCAT

COUNTY AUSTRALIA STATE TASMANIA

Location: 1500 FSL & 1500 FEL

Sec. Twp. Rge.: 34 - 3S - 5E

Permanent Datum: G.L. Elev.: 0 ft. above Perm. Datum

Log Measured From: K.B. 32 ft. above Perm. Datum

Drilling Measured From: R.T.

Elev.: K.B. 32 | G.L. 0 | D.F. 31

Date: 1-12-69

Run No.: ONE

Depth-Driller: 10,691

Depth-Logger: 10,692

Bottom Logged Interval: 10,690

Top Logged Interval: 10,000

Type Fluid in Hole: SALT GEL

Salinity, PPM Cl: 19,000

Density: 9.9

Level: FULL

Max. Rec. Temp. Deg. F: 200

Operating Rig Time: 24 HRS

Recorded By: R. BAIRD

Witnessed By: MR. TOOP

This well name, location and borehole record data were furnished by the customer.

RECORDED DATA

Run No.	PD/FEA	Hole Diam.	Depth-Driller	Depth-Logger	Bottom Log Interval	Top Log Interval	Casing-Driller	Casing-Logger	Bit Size
1	811	874	1188	1188	1188	1000	1000	1000	874
2	811	874	1188	1188	1188	1000	1000	1000	874

CALIBRATION DATA

Run No.	Shallow Resistivity			Deep Resistivity			Microlog		
	Tool No.	Type	Spacing	Tool No.	Type	Spacing	Tool No.	Type	Spacing
1	1320	16	16IN	1320	16D	16IN	1320	16D	16IN
2	1320	16	16IN	1320	16D	16IN	1320	16D	16IN

RECORDED DATA

Run No.	Top	Bottom	Speed FT/MIN	Time Constant	API Scale Deflection	Liquid Density	Shale Density	Porosity Fluid	Porosity Scale
1	10,000	10,690	20	1	0-100				
2	10,000	10,690	20	1	0-100				

MUD DATA

Run No.	Sample Source	Resistivity @ Temp.	Filtrate Resistivity @ Temp.	Mud Cake Resistivity @ Temp.	Viscosity	Density	Fluid Loss	pH
1	CIRC	0.23 @ 60	0.19 @ 60	0.28 @ 60	45	9.9	6.0	9.5
2	CIRC	0.23 @ 60	0.19 @ 60	0.28 @ 60	45	9.9	6.0	9.5

Remarks: RUN TWO

CALIPER HOLE DIAM. IN INCHES

6" 16"

GAMMA RAY API UNITS

0 150

BULK DENSITY GRAMS/CC

1.95 2.35 2.95

0.95 1.35 1.95

CORRECTION GRAMS/CC

-.25 0 +.25

5 cm

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COMPANY: AUSTRALIA
WELL: KULLAT
FIELD: PERMIAN
COUNTY: TASMANIA

FORMATION DENSITY LOG
COMPENSATED

COMPANY: ESSO AUSTRALIA
WELL: KULLAT
FIELD: PERMIAN
COUNTY: TASMANIA

CALIPER
HOLE DIAM. IN INCHES

GAMMA RAY
API UNITS

CORRECTION
Inches

BULK DENSITY
Gms/cc

CALIPER
HOLE DIAM. IN INCHES

GAMMA RAY
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CORRECTION
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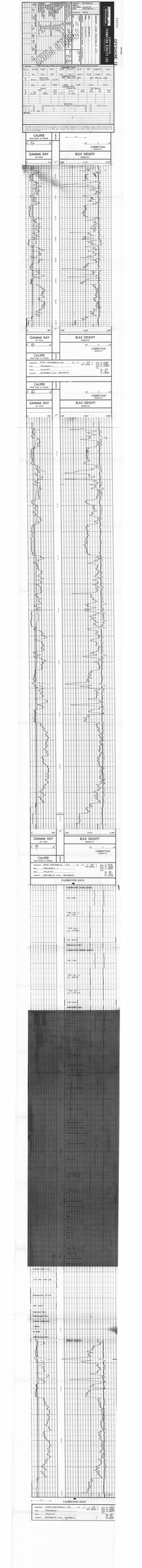
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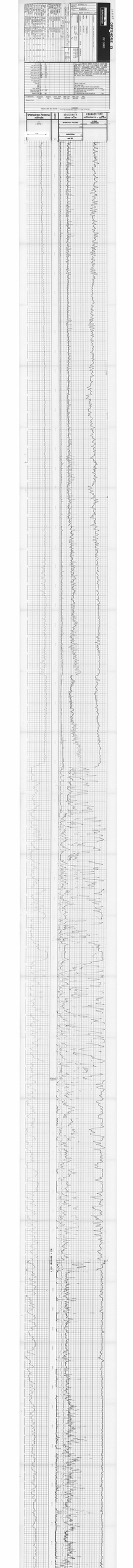
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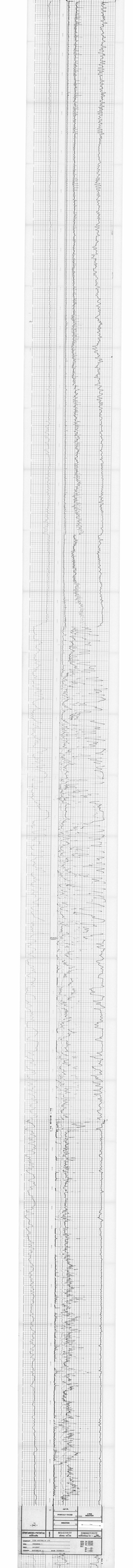
CALIBRATION AFTER SURVEY

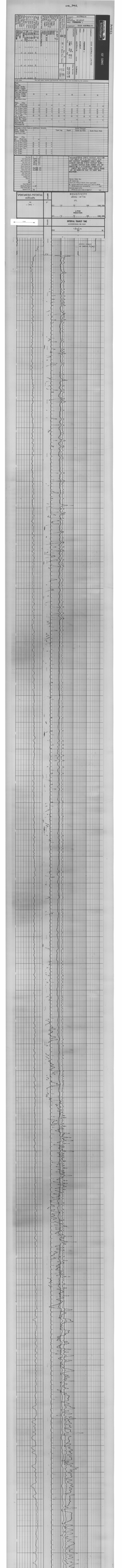
CALIBRATION BEFORE SURVEY

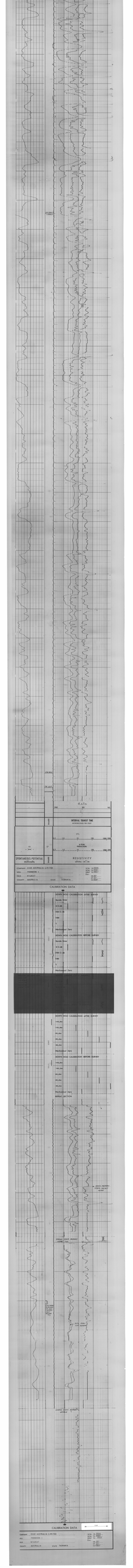
CALIBRATION RECORD

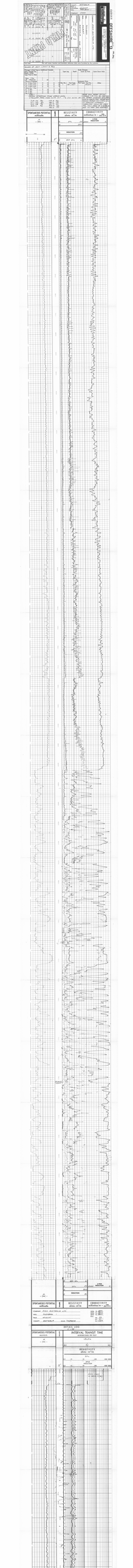

SCHLUMBERGER
CASED HOLE LOG
CBL-VDL-GR
CEMENT BOND LOG
VARIABLE DENSITY LOG
GAMMA RAY
CASING COLLAR LOG
CALIBRATION DATA
CALIBRATION AFTER SURVEY
CALIBRATION BEFORE SURVEY
BOND INDEX
CALIBRATION DATA

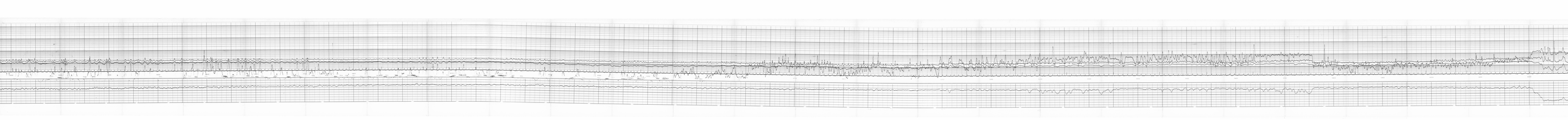

DESCRIPTION
SP (MV)
RESISTIVITY (ohm-m)
CONDUCTIVITY (millimhos/m)
SPONTANEOUS POTENTIAL millivolts
RESISTIVITY (ohm-m)
CONDUCTIVITY millimhos/m
SPONTANEOUS POTENTIAL millivolts
RESISTIVITY (ohm-m)
CONDUCTIVITY millimhos/m



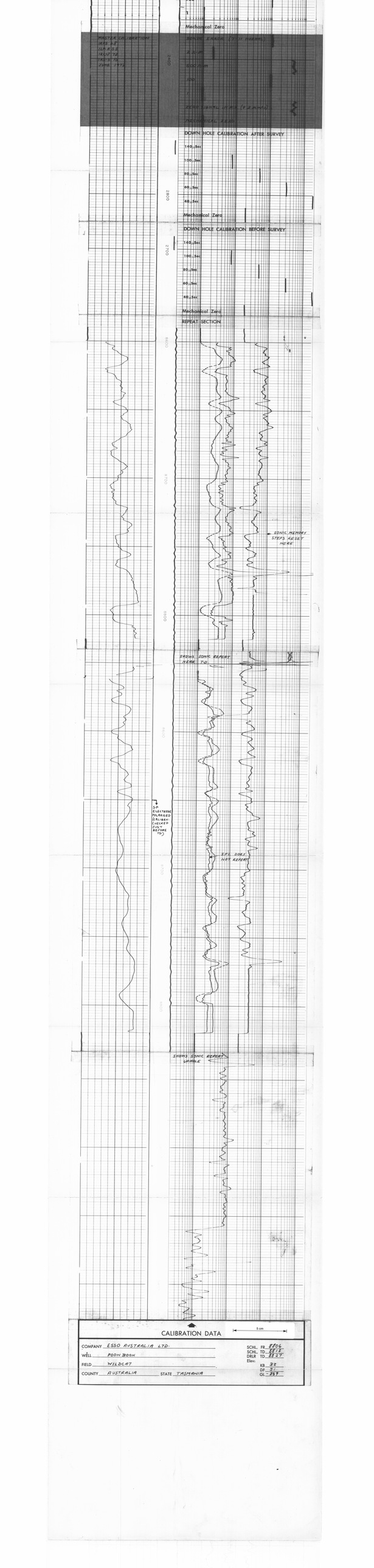


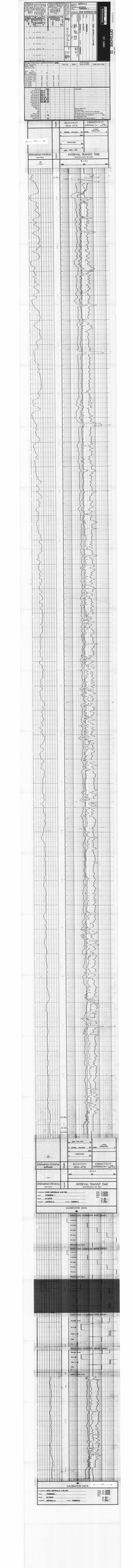

INTERVAL TRANSIT TIME
microseconds per metre
RESISTIVITY
ohms - m2/m
CALIBRATION DATA
DOWN HOLE CALIBRATION AFTER SURVEY
DOWN HOLE CALIBRATION BEFORE SURVEY
Pendulum Data
CALIBRATION DATA

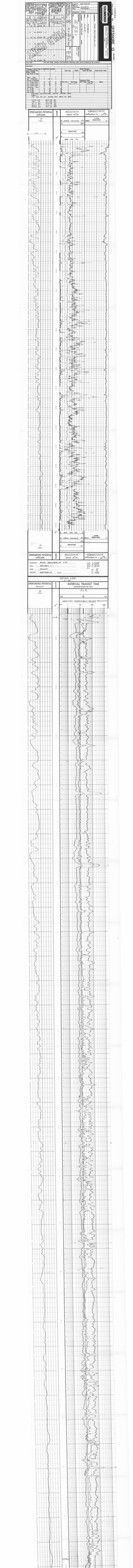

DUAL INDUCTION
SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms - m²/m
CONDUCTIVITY
millimhos/m = 1000/
INTERVAL TRANSIT TIME
microseconds/foot
DENSITY LOG
NEUTRON LOG

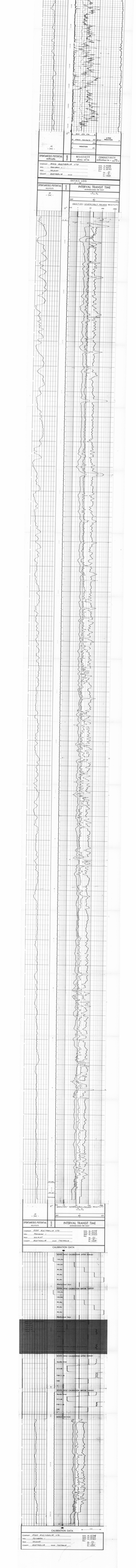


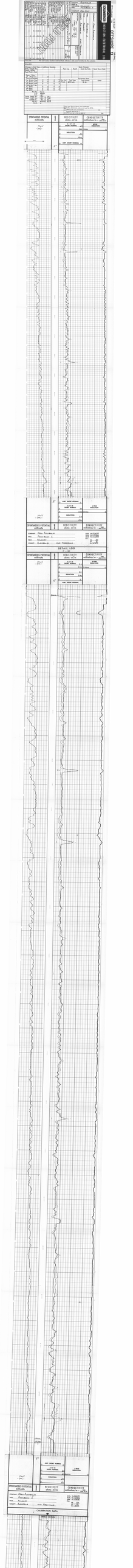

RESISTIVITY
INTERVAL TRANSIT TIME
CALIBRATION DATA

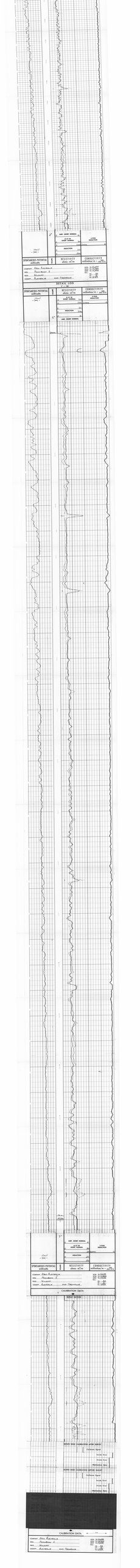

Mechanical Zero
DOWN HOLE CALIBRATION AFTER SURVEY
140 Sec
100 Sec
80 Sec
60 Sec
40 Sec
Mechanical Zero
DOWN HOLE CALIBRATION BEFORE SURVEY
140 Sec
100 Sec
80 Sec
60 Sec
40 Sec
Mechanical Zero
REPEAT SECTION
SONIC MEMORY STEPS RESET HERE
SHOWS SONIC REPEAT HERE TOO
SP ELECTRODE POLARISED CALIBRATION CHECKER SHOT BEFORE TOO
SHOWS SONIC REPEAT SAMPLE
CALIBRATION DATA
5 cm
COMPANY ESSO AUSTRALIA LTD.
WELL POONBOON
FIELD WILDCAT
COUNTY AUSTRALIA
STATE TASMANIA
SCHL. TD 8813
DRLR. TD 8827
Elev.:
KB 32
DF 31
GL - 257






SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms m²/m
CONDUCTIVITY
millimhos/m
Company: ESSO AUSTRALIA LTD
Well: BASSLINE A-1
Field: GIPPSLAND
County: AUSTRALIA
State:
RXO: 0.0709
RT: 0.0709
Bit Size: 12¼"
Type Fluid: SEAWATER
Density: 1.03
Viscosity:
pH:
Source of Rmf and Rmc: MEASURED
Rmf @ °F: 0.0709
Rmc @ °F: 0.0709
Source of Rw: CALCULATED
Rm @ BHT: 0.0709
Rmf @ BHT: 0.0709
Rmc @ BHT: 0.0709
GR (API)
INTERVAL TRANSIT TIME
microseconds per foot
DIRECTIONAL SURVEY DATA
CALIBRATION DATA




SPONTANEOUS POTENTIAL millivolts
RESISTIVITY ohms m²/m
CONDUCTIVITY millisiemens/m = 1000/ρ
SHORT NORMAL
LONG NORMAL
INDUCTION
LATERAL
DETAIL LOG
Operator: Esso Australia
Well: Flounder 1
Field: Gippsland
Country: Australia
Other Services:
SCH: 14-Feb-80
DIL: 14-Feb-80
BHC: 14-Feb-80
RUN: ONE
TD: 2195
TD: 2195
CALIBRATION DATA
BOREHOLE RECORD
Diameter
Depth - Driller
Depth - Logger
Bottom Log Interval
Top Log Interval
CASING RECORD
Size
Weight
Depth - Driller
Depth - Logger
Bottom Log Interval
Top Log Interval
TYPE FLUID IN HOLE
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp Deg F
Equipment Location
Recorded By
Witnessed By
RUN NO.
TYPE FLUID IN HOLE
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp Deg F
Equipment Location
Recorded By
Witnessed By
TYPE LOG
Primary Depth Control
Logging Measured From
Drilling Measured From
Permanent Datum
Elevation
Elevation
Elevation
Log Measured From
Drilling Measured From
RUN NO.
TYPE LOG
Primary Depth Control
Logging Measured From
Drilling Measured From
Permanent Datum
Elevation
Elevation
Elevation
Log Measured From
Drilling Measured From
CALIBRATION DATA
BOREHOLE RECORD
CASING RECORD
TYPE FLUID IN HOLE
RUN NO.
TYPE FLUID IN HOLE
RUN NO.
TYPE LOG
RUN NO.
TYPE LOG
RUN NO.
TYPE LOG
CALIBRATION DATA

Company: ESSO AUSTRALIA LIMITED
Field: GIPPSLAND
Well: KINGFISH A-1
Location: ESSO AUSTRALIA LTD

Schlumberger

RUN NO. | DATE | TYPE LOG | DEPTH-DRILLER | DEPTH-LOGGER | BTM. LOG INTERVAL | TOP LOG INTERVAL | CASING-DRILLER | CASING-LOGGER | BIT SIZE | TYPE FLUID IN HOLE | DENS. | VISC. | PH | FLUID LOSS | SOURCE OF SAMPLE | RM @ MEAS. TEMP. | RMF @ MEAS. TEMP. | RMC @ MEAS. TEMP. | SOURCE OF RMF | SOURCE OF RMC | RM @ BHT | TIME SINCE CIRC. | MAX. REC. TEMP. | EQUIP. LOCATION | RECORDED BY | WITNESSED BY

1 | 15-JAN-79 | DLL-MSFL | 2000 | 2000 | 2000 | 1000 | 13 3/8 @ 1000 | 13 3/8 @ 1000 | 12 1/4 | SEAWATER | 8.8 | 35 | 9.5 | 8.0 | CIRC. | 1.0 @ 60°F | 0.8 @ 60°F | 1.4 @ 60°F | MEAS. | MEAS. | 0.6 @ 120°F | 6 HRS | 120°F | 1309 | R. MOORE | J. MCCARTHY

Remarks:
RUN 1 - DLL-MSFL-GR-SP-CALIPER. RUN 1 - BHC-GR-SP-CALIPER.

Equipment Numbers: Truck Unit No. | Recorder No. | Type | Serial No. | Base | Skid No. | Mud Type: SEAWATER | Density: 8.8 | Viscosity: 35 | Fluid Loss: 8.0 | Rm @ Meas. Temp.: 1.0 @ 60°F | Rmf @ Meas. Temp.: 0.8 @ 60°F | Rmc @ Meas. Temp.: 1.4 @ 60°F | Rm @ BHT: 0.6 @ 120°F | Time Since Circ.: 6 HRS | Max. Rec. Temp.: 120°F | Equip. Location: 1309 | Recorded By: R. MOORE | Witnessed By: J. MCCARTHY

Run No. | Bit No. | Type | Size | From | To | Total Depth

Casing: Driller | Logger | Bit Size | Type Fluid in Hole | Density | Viscosity | PH | Fluid Loss | Source of Sample | Rm @ Meas. Temp. | Rmf @ Meas. Temp. | Rmc @ Meas. Temp. | Source of Rmf | Source of Rmc | Rm @ BHT | Time Since Circ. | Max. Rec. Temp. | Equip. Location | Recorded By | Witnessed By

Primary Depth Control: Run No. | Log Measured From | Feet Above Permanent Datum | Elevation | Log Measured From | Feet Above Permanent Datum | Elevation | Permanent Datum | Elevation | Elevation: K.B. | D.F. | G.L.

Borehole Record: Run No. | Bit No. | From | To | Size

Casing Record: Run No. | String | Size | Wgt. | Grade | From | To | Bit Size

Logging Equipment: Run No. | Tool Type | Serial No. | Position | Standoff | Tool Type | Serial No. | Position | Standoff

Run No. | Tool Type | Serial No. | Position | Standoff

Run No. | Tool Type | Serial No. | Position | Standoff

Run No.