

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION 2.5 MILES N.E. OF WILDCAT
OTHER SERVICES

Run No.	ONE		
Date	25-11-65		
Depth-Driller	2035		
Depth-Logger	2035		
Bottom Logged Interval	2035		
Top Logged Interval	1200		
Type Fluid in Hole	GEL		
Salinity, PPM Cl	1000		
Density	9.2		
Level	FULL		
Max. Rec. Temp. °F	87		
Operating Time	3 HRS		
Recorded By	J. MAY		
Witnessed By	MR. CLARKE		

RUN NO. ONE
BIT SIZE 8 1/2" FROM 1200 TO 2035
CASING SIZE 9 5/8" WT. 32.3# GR. H-40 SET AT 1200
TYPE FLUID IN HOLE GEL DENSITY 9.2 VISC. 37
SOURCE OF SAMPLE PIT
R_m @ MEAS. TEMP. 1.0 @ 87°F
R_mf @ MEAS. TEMP. 0.8 @ 87°F
R_mc @ MEAS. TEMP. 1.2 @ 87°F
SOURCE OF R_mf & R_mc MEASURED
RM @ BHT 0.5 @ 120°F
TIME SINCE CIRC. 3 HRS
TIME SINCE LOGGER ON BOTTOM 2 HRS
MAX. REC. TEMP. 87°F
EQUIPMENT NO. & LOCATION 1-502 1-119
RECORDED BY J. MAY
WITNESSED BY MR. CLARKE

REMARKS: WAVE COMPENSATING DEVICE USED. CALIPER RUN IN 9 5/8" CASING.

Velocity Matrix = 18000 Interval Transit Time (sec/ft)

GAMMA RAY CALIBRATION DATA
Background 20 API units
K Test Deck 200 API units
Gain Setting 8.5
Sensitivity 2.5 CPS/API unit
CALIBRATION RECORDED BY G.A.M. & CLARKE
CALIBRATION WITNESSED BY M.R.
LOGGING EQUIPMENT NO. A-28

LOGGING EQUIPMENT
Tool No. 2
Tool Level 8.5
Gain Setting 8.0
Sensitivity 2.5
Sonic Tool No. C-502
Gamma Ray No. S-119
Recording No. S-149

GAMMA RAY
(API units)
GAMMA RAY ZERO 0
RAYMASK SET LEFT OF TRACE LINE
0 120

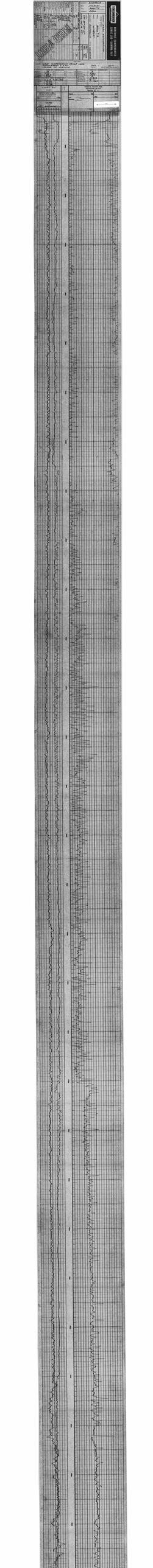
CALIPER
Inches
9.5" BOREHOLE
6 16

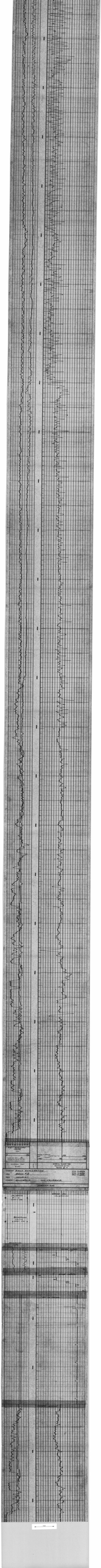
INTERVAL TRANSIT TIME
Microseconds per foot
Spacing 2 ft.
140 90
Δ = Influenced
Δ = Influenced
Integrated Transit Time
Δ = Influenced
190 140
90 40

5 cm

CALIPER
Inches
6 16
GAMMA RAY ZERO 0
RAYMASK SET LEFT OF TRACE LINE
0 120
GAMMA RAY
(API units)
INTERVAL TRANSIT TIME
Microseconds per foot
Spacing 2 ft.
190 140
90 40

COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA
SCH. FR. 6206
SCH. TD. 6824
DRLR. TD. 6824





SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA
Location: LAT 39° 59' 0" S LONG 145° 16' 0" E
Other Services: DIFL SFL CDM FDC MLCS
Permanent Datum: GL Elev. 0 ft. Above Perm. Datum
Log Measured From: RT 31 ft. Above Perm. Datum
Drilling Measured From: RT 31 ft. Above Perm. Datum

	Run No.	Date	Depth-Driller	Depth-Logger	Bottom Logged Interval	Top Logged Interval	Type Fluid in Hole	Salinity, PPM Cl	Density	Level	Max. Rec. Temp. Deg. F	Equip. No.	Location	Recorded By	Witnessed By
1	ONE	12-6-74	7300	7303	7303	2500	GEL CHEM	8000	10.0	FULL	150	3-809			
2															
3															

CASING RECORD

	Size	Wgt.	Grade	Type Joint	Top	Bottom	Cement Type	Sacks	Additives	Source of Sample	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 & Rmc	Rm @ BHT	Time Since Circ.	Max. Rec. Temp. Deg. F	Equip. No.	Location	Recorded By	Witnessed By
1	13 3/8	54.5	K-55	BUTT	0	1000					12 1/4	GEL CHEM	10.0	45	9.5	6.4	MUD PIT	.65 @ 70 °F	.49 @ 70 °F	.85 @ 70 °F	MEASURED	.45 @ 150 °F	24 HRS	150				
2	9 5/8	40	K-55	BUTT	0	3000					8 1/2	GEL CHEM	10.0	45	9.5	6.4	MUD PIT	.65 @ 70 °F	.49 @ 70 °F	.85 @ 70 °F	MEASURED	.45 @ 150 °F	24 HRS	150				
3	7	23	N-80	BUTT	0	7303					6	GEL CHEM	10.0	45	9.5	6.4	MUD PIT	.65 @ 70 °F	.49 @ 70 °F	.85 @ 70 °F	MEASURED	.45 @ 150 °F	24 HRS	150				

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REMARKS: WAVE COMPENSATING DEVICE USED

Velocity (Feet/sec.) = 1000000 / Interval Transit Time (microsec. ft.)

GAMMA RAY CALIBRATION DATA				GAMMA RAY RECORDING DATA	
Background	40	cps	120	Run No.	3
API Test Source	400	cps	120	Fluid Level	FULL
Gate Interval	0.5	div.	div.	Sensitivity Tap	300
Sensitivity Tap	300			Time Constant	3
SYNC. SONIC RECORDING DATA				GR Panel No.	D-809
Centralizers	CENTRALIZER			GR cartridge No.	G-11
Cartridge No.	A-46			GR detector No.	F-469
Sonde No.	A-55				
Panel No.	A-38				

GAMMA RAY
API UNITS

GAMMA RAY ZERO 0
DIVISIONS TO LEFT OF THIS LINE
0 120

7.5" SHALLOW CALIPER
Inches
7 8 9 10 11 12 13 14 15

INTERVAL TRANSIT TIME
microseconds per foot
Spacing: 5 ft.
140 90 40
190 140
10 milliseconds
Integrated Transit Time
1 millisecond
5 cm

7 8 9 10 11 12 13 14 15
7.5" SHALLOW CALIPER
Inches
0 120
GAMMA RAY ZERO 0
DIVISIONS TO LEFT OF THIS LINE
GAMMA RAY
API UNITS
10 milliseconds
Integrated Transit Time
1 millisecond
140 90 40
190 140
INTERVAL TRANSIT TIME
microseconds per foot
Spacing: ft.

COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

SCHL FR 7776
SCHL TD 7296
DRLR TD 7772



ATLAS WIRELINE SERVICES
ELECTRONICS DIVISION
CORPORATION
CALIBRATION PLAN

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

COUNTRY AUSTRALIA
FIELD WILDCAT
WELL BASS #3
COMPANY ESSO

Location: LAT 39° 59' 27" LONG 148° 16' 27"

Other Services: DIPMETER ARRAY

Permanent Datum: RT Elev. 31 ft. Above Perm. Datum
Log Measured From: RT 31 ft. Above Perm. Datum
Drilling Measured From: RT

Date	2-3-67								
Run No.	ONE								
Depth-Driller	2992								
Depth-Logger	2991								
Bottom Logged Interval	2991								
Top Logged Interval	2700								
Casing-Driller	2700 @ 2992								
Casing-Logger	2700 @ 2991								
Bit Size	8½								
Type Fluid in Hole	GEL CHEM								
Density	9.6								
Viscosity	55								
Fluid Loss	7.6								
Source of Sample	CIRC								
Rm @ Meas. Temp.	.66 @ 68°								
Rmf @ Meas. Temp.	.54 @ 68°								
Rmc @ Meas. Temp.	.84 @ 68°								
Source Rmf & Rmc	CALC								
Rm @ BHT	.33 @ 200°								
Time Since Circ.	24 HRS								
Max. Rec. Temp.	200°								
Equip. Location	5								
Recorded By	BOWDEN								
Witnessed By	GRIFFITHS								

Rig: 31

Standard Service: DIL
Special Service: SFL

Run No. ONE
Bit No.
Depth-Driller 2992
Depth-Logger 2991
Bottom Logged Interval 2991
Top Logged Interval 2700
Type Fluid in Hole GEL CHEM
Salinity, P.P.M. Cl
Density 9.6
Level Full
Max. Rec. Temp. 200°
Equip. Location 5
Recorded By BOWDEN
Witnessed By GRIFFITHS

FIELD PRINT

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REMARKS: WAVE COMPENSATING DEVICE USED.
DISPLACEMENT 2-3 FT

ORIGINS DATA	
Run No.	
Type of Spindle	6 HERO
D. TK. Spacing	18"
Sheave-pit	7.3"
D. B. E.	1

EQUIPMENT DATA	
Run No.	
Type	C-752
Cartridge	C-707
Spools	DI-541
Test Loop	C-736

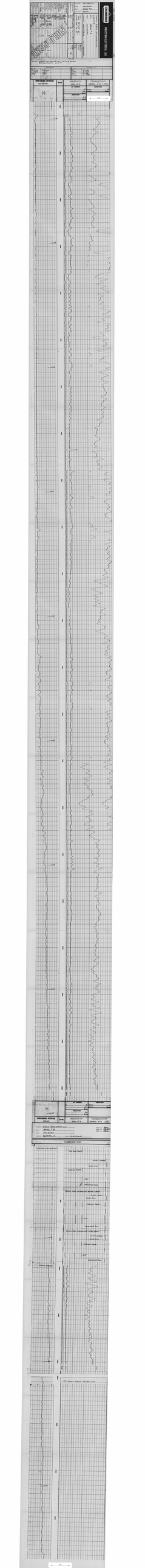
SPONTANEOUS POTENTIAL	DEPTHS	RESISTIVITY	CONDUCTIVITY
100 millivolts		ohms - m²/m	millohms - m²/m
		16" NORMAL	INDUCTION
		4" 2000 0	
		20 1000 2000	
		200	
		INDUCTION	
		20	
		200	

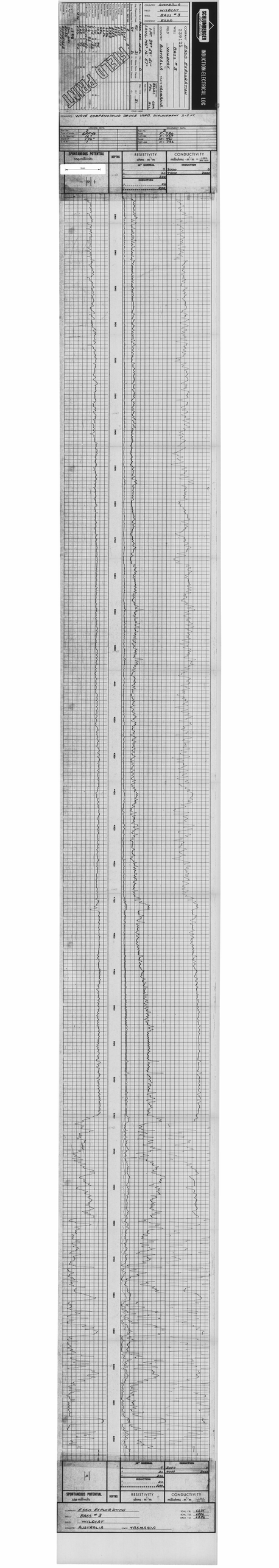
5 cm

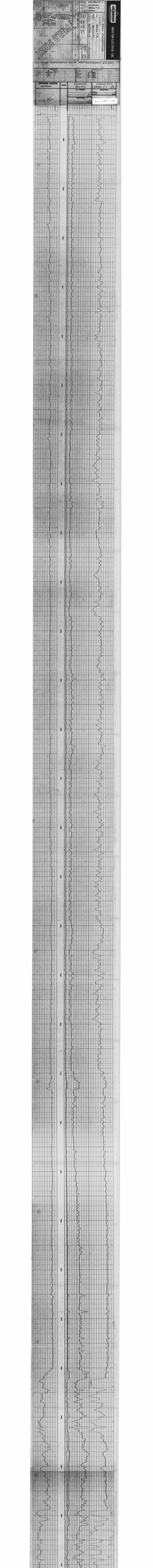
		16" NORMAL	INDUCTION
		4" 2000 0	
		20 1000 2000	
		200	
		INDUCTION	
		20	
		200	
SPONTANEOUS POTENTIAL 100 millivolts	DEPTHS	RESISTIVITY ohms - m²/m	CONDUCTIVITY millohms - m²/m

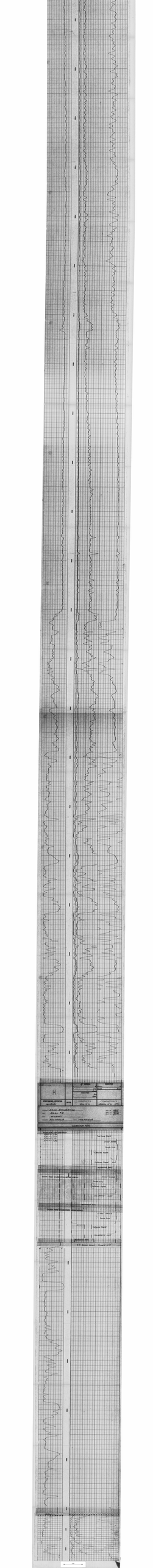
COMPANY ESSO EXPLORATION
WELL BASS #3
FIELD WILDCAT
COUNTRY AUSTRALIA STATE TASMANIA

SCHL. F.R. 2801
SCHL. T.D. 2992
DR.L. T.D. 2801




SCHLUMBERGER
INDUCTION-ELECTRICAL LOG
COMPANY ESSO EXPLORATION
WELL BASS # 3
FIELD WILDCAT
COUNTY AUSTRALIA
STATE TASMANIA
COUNTRY AUSTRALIA
WELL BASS # 3
FIELD WILDCAT
COMPANY ESSO
FIELD PRINT
REMARKS: WAVE COMPENSATING DEVICE USED. DISPLACEMENT 2-3 FT.
RUN No. 1
DATE 4-5-68
DEPTH-DRILLER 7752'
DEPTH-LOGGER 7754'
BTM. LOG INTERVAL 7752'
TOP LOG INTERVAL 2000'
CASING-DRILLER 13 3/8" @ 2000'
CASING-LOGGER 2000'
BIT SIZE 12 1/4"
TYPE FLUID IN HOLE GEL CHEM
DENSITY 10.2 LB/GAL
VISCOSITY 45 SEC
PH 10.5
FLUID LOSS 4.8 CC
SOURCE OF SAMPLE CIRC.
RM @ MEAS. TEMP. .52 @ 70 °F
RMF @ MEAS. TEMP. .42 @ 70 °F
RMC @ MEAS. TEMP. .68 @ 70 °F
SOURCE OF RMF & RMC MEAS.
RM @ BHT .32 @ 150 °F
TIME SINCE CIRC. 12 HRS
MAX. REC. TEMP. 150 °F
EQUIP. NO. & LOCATION 1502 - 1503 - 1504
RECORDED BY R. SCHMIDT
WITNESSED BY MR. MOORE
RUN No.
DATE
DEPTH-DRILLER
DEPTH-LOGGER
BTM. LOG INTERVAL
TOP LOG INTERVAL
CASING-DRILLER
CASING-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 & RMC MEAS.
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. NO. & LOCATION
RECORDED BY
WITNESSED BY
SPONTANEOUS POTENTIAL millivolts
DEPTHS
RESISTIVITY ohms - m²/m
CONDUCTIVITY millimhos - m²/m
16" NORMAL
INDUCTION
INDUCTION
SPONTANEOUS POTENTIAL millivolts
DEPTHS
RESISTIVITY ohms - m²/m
CONDUCTIVITY millimhos - m²/m
16" NORMAL
INDUCTION
INDUCTION
COMPANY ESSO EXPLORATION
WELL BASS # 3
FIELD WILDCAT
COUNTY AUSTRALIA
STATE TASMANIA





SCHLUMBERGER

OR-332

INDUCTION-ELECTRICAL LOG

COMPANY ESSO EXPLORATION

WELL BASS #3

FIELD WILDCAT

COUNTRY AUSTRALIA STATE TASMANIA

Location: LAT 39° 59'51"
LONG 145° 16'57"

Permanent datum: MEAN SEA LEVEL Elev.: 0

Log Measured From RT 31 Ft. Above Perm. Datum

Drilling Measured From RT 31 Ft. Above Perm. Datum

RUN No. | Depth Scale	4 | 2"		
Date	30-9-67		
First Reading	7985		
Last Reading	7911		
Interval Measured	74		
Casing Schlumberger	—		
Casing Driller	2750		
Depth Reached	7986		
Bottom Driller	7978		
Mud Nature	GEL		
Density | Viscosity	10.8 | 53	|	
Mud Resistivity	1.70 @ 66 °F	@ °F	@ °F
Mud Resist. BHT	.57 @ 208 °F	@ °F	@ °F
pH | Fluid Loss	9.0 | 7.8 CC/30 min.	|	CC/30 min.
Origin of Sample	FLOWLINE		
Rmf	1.31 @ 68 °F	@ °F	@ °F
Rmc	1.82 @ 66 °F	@ °F	@ °F
Bit Size 12 1/4 | 2	CSG To TD	To	To
Casing Size	13 3/8	To	To
Opr. Rig Time	2 1/2 HR		
Truck No.	2035		
Recorded By	BOWLER		
Witness	LAPORTE		

Other Services: FDL-C BHC, MLL, CST FT CDM

Elev.: K.B. —
D.F. 31
G.L. —

Ref. No.:

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REMARKS: WAVE COMPENSATING DEVICE USED
DISPLACEMENT 2-3FT

LOGGING DATA			
Run No.	4		
Type of Sonde	6FF40		
S. N. Spacing	16"		
Stand-off	1.5"		
S. B. R.	1		

EQUIPMENT DATA			
Run No.	4		
Panel	F780		
Cartridge	F707		
Sonde	M461		
Test Loop	C782		

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms - m^2/m	CONDUCTIVITY milliohms - m^2/m = 1000 / ohms - m2/m
-|10|+		16" NORMAL 0 — 4 — 20 — 200	INDUCTION 1000 — 0 — 2000 — 1000
5 cm		INDUCTION 0 — 20 — 200	

7700
7800
7900
8000

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms - m^2/m	CONDUCTIVITY milliohms - m^2/m 1000 / ohms - m2/m
-|10|+		16" NORMAL 0 — 4 — 20 — 200	INDUCTION 1000 — 0 — 2000 — 1000
		INDUCTION 0 — 20 — 200	

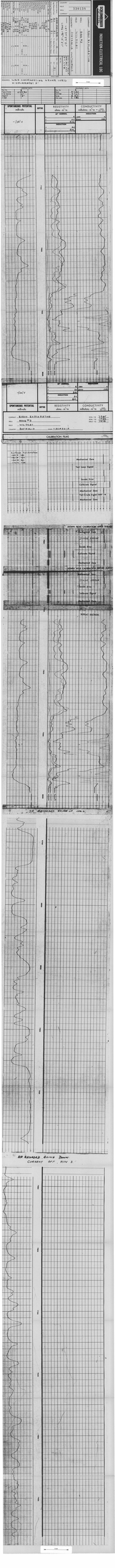
COMPANY ESSO EXPLORATION

WELL BASS 3#

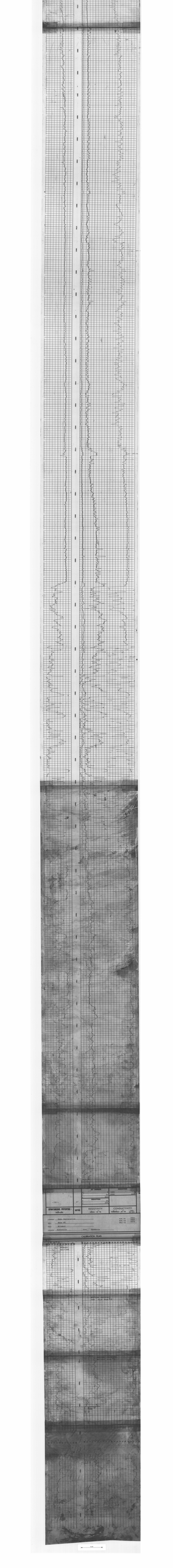
FIELD WILDCAT

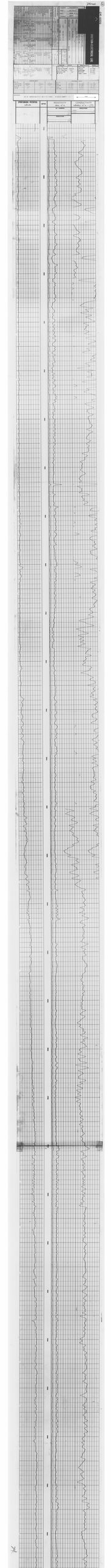
COUNTRY AUSTRALIA STATE TASMANIA

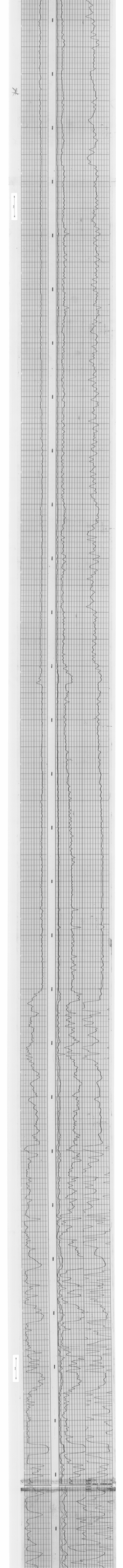
SCHL. F.R. 7985
SCHL. T.D. 7986
DRLR. T.D. 7978

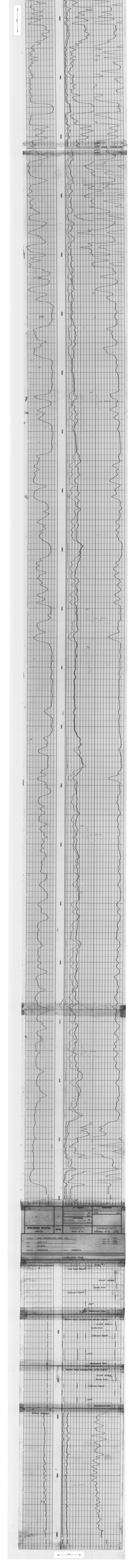


SCHLUMBERGER
INDUCTION ELECTRICAL LOG
COMPANY
WELL
FIELD
COUNTY
STATE
LOCATION
SEC
TWP
RGE
PERMANENT DATUM
ELEVATION
LOG MEASURED FROM
DRILLING MEASURED FROM
DATE
RUN NO.
DEPTH-DRILLER
DEPTH-LOGGER
BTM LOG INTERVAL
TOP LOG INTERVAL
CASING-DRILLER
CASING-LOGGER
BIT SIZE
TYPE FLUID IN HOLE
DENSITY
VISCOSITY
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE RMF
SOURCE RMC
RM @ BHT
TIME CIRC. STOPPED
TIME LOGGER ON BOTTOM
MAX. REC. TEMP.
EQUIPMENT NO.
LOCATION
RECORDED BY
WITNESSED BY
RUN NO.
BOREHOLE RECORD
CASING RECORD
SP CORRECTIONS
SP REFERENCE
RESISTIVITY
CONDUCTIVITY
SP REFERENCE
RESISTIVITY
CONDUCTIVITY
CALIBRATION FILMS
SP RECORDED GOING DOWN
CURRENT OFF RUN 3


SPONTANEOUS POTENTIAL
RESISTIVITY
CONDUCTIVITY
GAMMA RAY






SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms m²/m
CONDUCTIVITY
millimhos m²/m
CALIBRATION PLUG
Calibration Signal
Gradient Signal
Gradient Signal
Calibration Signal
Gradient Signal
Gradient Signal
Calibration Signal
Gradient Signal
Gradient Signal
Calibration Signal
Gradient Signal
Gradient Signal
Calibration Signal
Gradient Signal