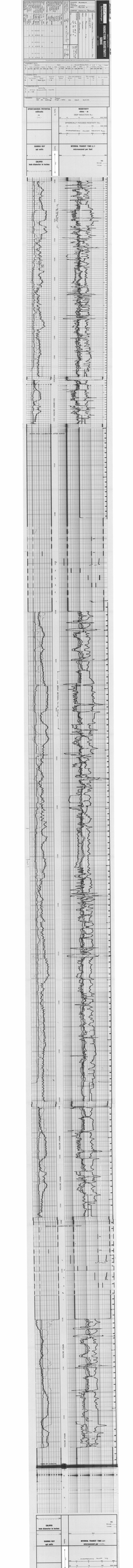
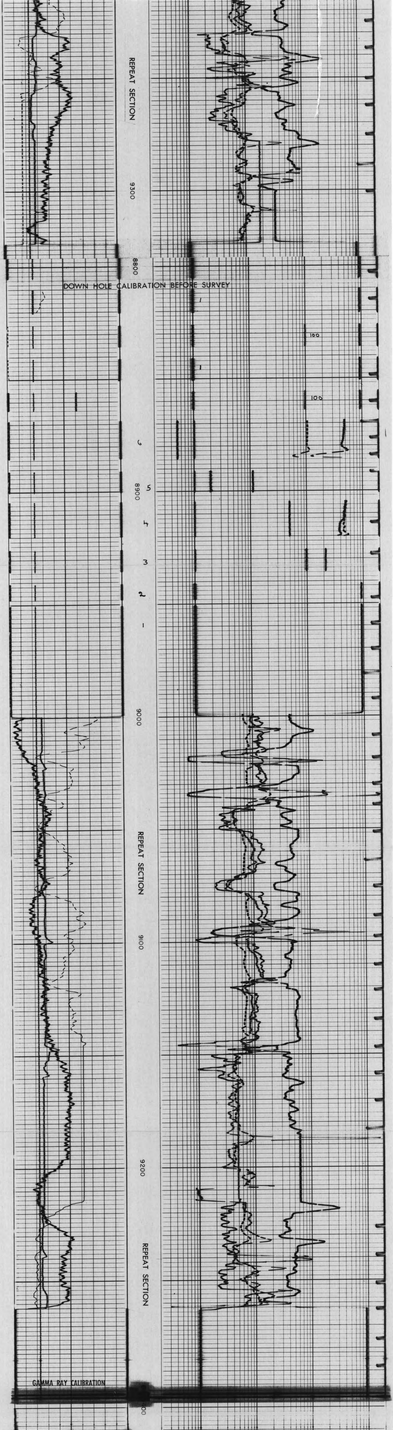




CALIPER
hole diameter in inches

GAMMA RAY
api units

Depths

INTERVAL TRANSIT TIME Δ t
microsecond per metre

TTI
10 m sec
1 m sec

SPONTANEOUS POTENTIAL
millivolts

SPHERICALLY FOCUSED RESISTIVITY R_{SFL}

DEEP INDUCTION R_{ILD}

RESISTIVITY
ohms - m

REPEAT SECTION

CALIBRATION DATA

ISF/SONIC CALIBRATION CODING

	ISF	SONIC
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	1 ohm-m	40 + sec
3.	100 ohm-m	60 + sec
4.	500 ohm-m	80 + sec
5.	2 ohm-m	100 + sec
6.	SONDE ERROR	140 + sec
7.	ZERO SIGNAL IN AIR	SURFACE CALIBRATION ONLY
8.	TEST LOOP	

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. TEST - 1 - ELECTRICAL ZERO
3. TOOL CAL - BACKGROUND
4. TOOL CAL - TEST JIG ON
5. CAL CHECK f = _____ Hz

Schlumberger

SIMULTANEOUS
INDUCTION RESISTIVITY
SONIC
ISF - SONIC

MASTER CALIBRATION

ISF-HD	338
ISC-GR	7427
ISS-VA	737
ITL-2	833

14-1-79

S-ERASER

2-29-88 Cat-Alg

Schlumberger

DUAL INDUCTION ELECTRICAL LOG

Company: ARCO OIL & GAS COMPANY
Well: 1-29 CATALINA
Field: WILDCAT
County: LOS ANGELES
State: CALIFORNIA
Other Services: BHC - GR - CAL

Sec. 29 Twp. 4S Rge. 11W
Permanent Datum: GROUND LEVEL
Elev.: 0 K.B. 0 D.F. 0 G.L.
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Date: 2-29-88
Run No.: ONE
Depth-Driller: 10,000
Depth-Logger: 10,000
Bottom Logged Interval: 10,000
Top Logged Interval: 1,000
Type Fluid in Hole: LIGHT MUD
Salinity, PPM Cl: 10,000
Density: 9.2
Level: FULL
Max. Rec. Temp. Deg. F: 220
Equipment No. & Location: 1502 - 1
Recorded By: R. SMITH
Witnessed By: J. JONES

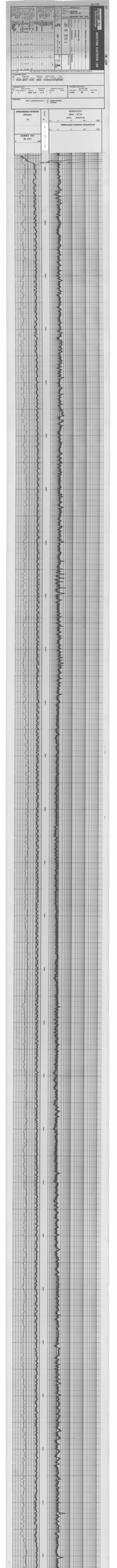
Run No. | Bit Size | From | To
ONE | 12.25 | SURF. CSG. | 10,000

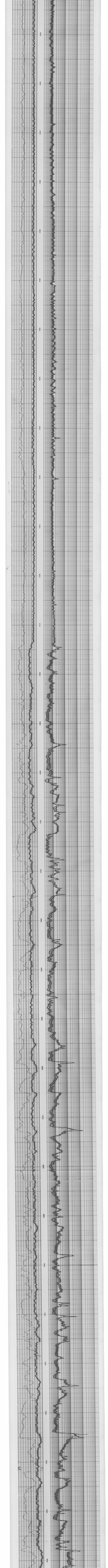
Type | Size | Wgt. | From | To
CASING | 9.625 | 47 | SURF. | 1,000
CASING | 7 | 26 | SURF. | 10,000

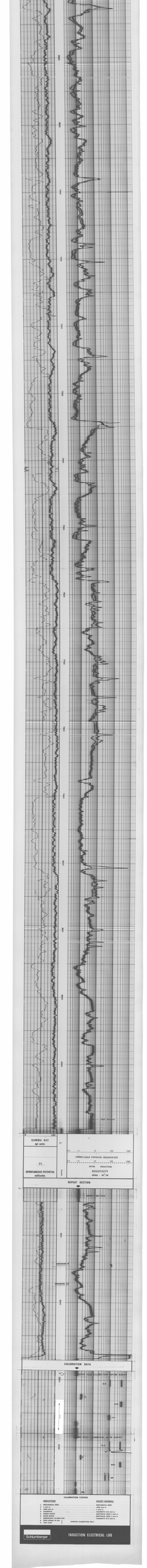
Type Log | Depth | Scale Up Hole | Scale Down Hole
DUAL INDUCTION | 10,000 | 5 | 5
BHC | 10,000 | 5 | 5
GAMMA RAY | 10,000 | 5 | 5
CALIPER | 10,000 | 5 | 5

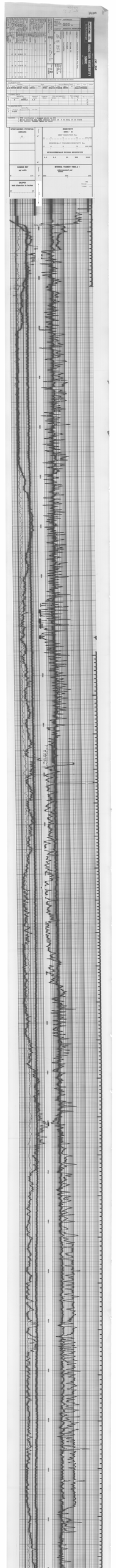
Equipment Name | Other
1502 | CENTRALIZERS
1502 | SCRATCHERS

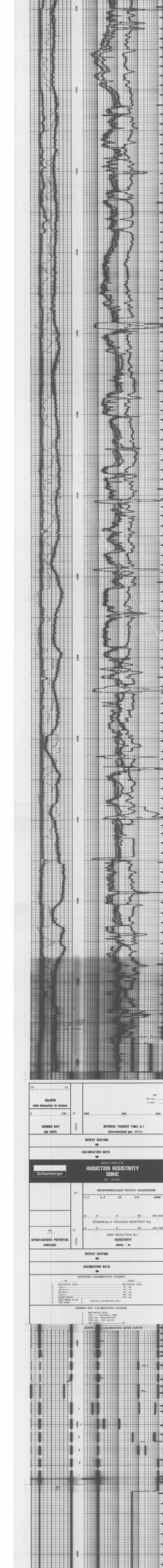
Time Since Circ.: 6 HRS.

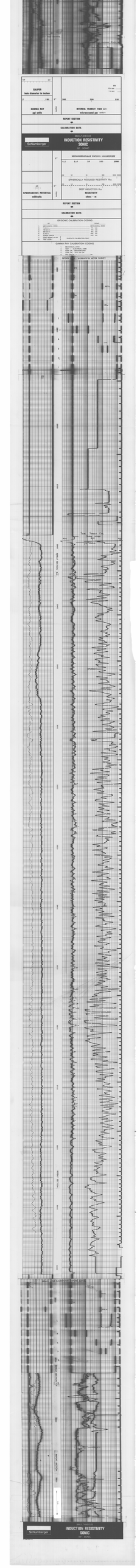

SCHLUMBERGER
RESISTIVITY REFERENCE LOG
SPONTANEOUS POTENTIAL
millivolts
GAMMA RAY
api units
RESISTIVITY
ohm.m
ohm.m
SHORT NORMAL
LONG NORMAL
MICROLATERAL POSITIVE RESISTIVITY
ohm.m




GAMMA RAY
API UNITS
SPONTANEOUS POTENTIAL
millivolts
SPHERICALLY FOCUSED RESISTIVITY
ohmm
INDUCTION
RESISTIVITY
ohmm - m²/m
REPEAT SECTION
MAIN SECTION
CALIBRATION DATA
CALIBRATION SIGNALS
INDUCTION
1. SPHERICAL ZERO
2. 10 mmho/m
3. 100Ω ohm-m
4. 1000Ω ohm-m
5. SHUNT SPHERE
6. SHUNT SPHERE
7. INDUCTANCE CALIBRATION
8. PHASE ZERO
9. TEST LOOP
SURFACE CALIBRATION (SC)
SHORT NORMAL
SHORT NORMAL 16"
LONG NORMAL 64"
LATERAL 18'8"
ELECTRICAL ZERO 2 ohm-m
ELECTRICAL ZERO 2 ohm-m
CALIBRATE 10.0 ohm-m
Schlumberger
INDUCTION ELECTRICAL LOG




CALIPER
hole diameter in inches
GAMMA RAY
api units
REPEAT SECTION
CALIBRATION DATA
SCHLUMBERGER
INDUCTION RESISTIVITY
SONIC
ISF - SONIC
MICROSPHERICALLY FOCUSED RESISTIVITY
SPHERICALLY FOCUSED RESISTIVITY Rxo
DEEP INDUCTION Rt
SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms - m
REPEAT SECTION
CALIBRATION DATA
ISF/SONIC CALIBRATION CODING
GAMMA RAY CALIBRATION CODING
DOWN CALIBRATION AFTER SURVEY


CALIPER
hole diameter in inches
GAMMA RAY
api units
REPEAT SECTION
CALIBRATION DATA
Schlumberger
INDUCTION RESISTIVITY
SONIC
MICRONORMALOGGABLE PROTECTED ELECTRODE
SPHERICALLY FOCUSED RESISTIVITY
DEEP INDUCTION
RESISTIVITY
ohms - m
SPONTANEOUS POTENTIAL
millivolts
REPEAT SECTION
CALIBRATION DATA
GEOMETRICAL CALIBRATION METER SURVEY
GAMMA RAY CALIBRATION CODING
INDUCTION RESISTIVITY
SONIC

391201

Schlumberger

INDUCTION ELECTRICAL LOG

COUNTRY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL PELICAN #4

COMPANY SUNATLYE

WELL Pelican #4
FIELD Tirikal
COUNTY Australia
STATE -

Location: Permit No. 29
Other Services: DIL-BHC-GR-CAL
SP-GR-CAL

Permanent Datum: Ground Level
Elev.: K.B. 25 ft. above Perm. Datum
Log Measured From: K.B. 25 ft. above Perm. Datum
Drilling Measured From: K.B.

Run No.	Date	Depth-Driller	Depth-Logger	Bottom Logged Interval	Top Logged Interval	Type Fluid in Hole	Salinity ppm Cl	Density lb/gal	Viscosity sec	Fluid Loss cc/30min	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
1	29-7-72	9978	9978	9978	0	Gel Chem	8000	9.8	40	5.4	Flowline	0.61 @ 80°F	0.46 @ 80°F	0.74 @ 80°F	Meas / Calc	0.31 @ 180°F	12 hrs	180	3609	Darwin

Cementer: Dowell or Halliburton Pty Ltd.

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

EQUIPMENT DATA

Run No.	Induction Panel	Induction Cartridge	Induction Sonde	Memory Gamma Ray Panel	Gamma Ray Cartridge	Tape Recorder
2	SDT28	SDT27	TA372	AB630	SGNC3B05	559658
					SAA80D2	

LOGGING DATA

Run No.	Gamma Ray Time Constant	Gamma Ray Speed	Stand-off Inches	Induction zero at Surface	Induction zero at Depth
2	2	1800ft/h	1.5	A	

CALIBRATION DATA

Gamma Ray API Units	Gamma Ray Remanent GPI	Total GPI
0-445	NA	NA

REMARKS
Maximum Hole Deviation : °@
REPL no averaged.

SPONTANEOUS POTENTIAL millivolts
10 (+) (-)

GAMMA RAY api units
0 150

RESISTIVITY ohms - m²/m
INDUCTION RESISTIVITY 0 30
INDUCTION CONDUCTIVITY 1000 0
RFL RESISTIVITY 30 0 200

5" / 100'

REPEAT SECTION

SCHLUMBERGER
PLATFORM INDUCTION

Schlumberger INDUCTION ELECTRICAL LOG

5" / 100'