1027/OP/4

FIGURE 3

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

WELL COMPLETION LOG
ESSO NAUTILUS A-1

DEPT. NAT. RES & ENV
PE600324

CONCESSION: PEP 49 Hematite **STATE:** VICTORIA **BASIN:** OTWAY

LOCATION: Lat. 38° 58' 41" S Long. 142° 32' 46" E

ELEVATION: G.L. M.S.L. K.B. 93' **WATER DEPTH:** 327'

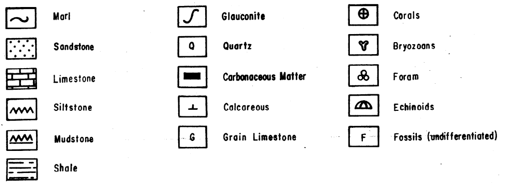
SPUDDED: April 13, 1968 **COMPLETED:** May 5, 1968 **DRILLED BY:** OCEAN DRILLING & EXPLORATION Co.

CLASSIFICATION: STRATIGRAPHIC TEST **STATUS:** PLUGGED & ABANDONED

TOTAL DEPTH: 6,597 ft. **PLUGGED BACK T.D.:** 460 ft.

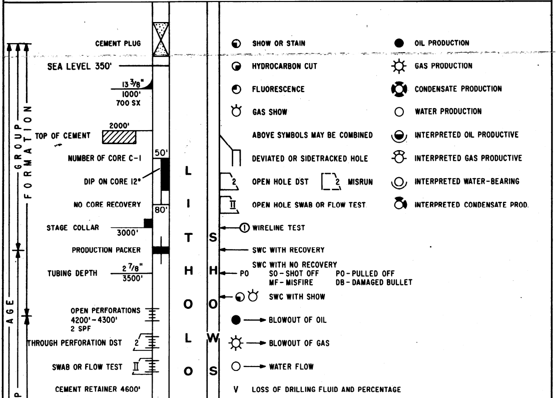
CASING AND TUBING				PLUGS			PERFORATIONS		
SIZE	SET AT	SX. CMT.	FORMATION	FROM	TO	SX. CMT.	FROM	TO	No. FT.
30"	539'	500		2,350'	1,850'	265'			
20"	950'	1200		650'	460'	148'			
13 3/8"	2137'	1950							

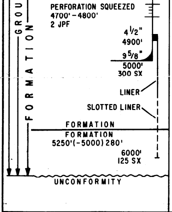
LITHOLOGIC SYMBOLS


Marl
Sandstone
Limestone
Siltstone
Mudstone
Shale
Q
G
F
Glauconite
Quartz
Carbonaceous Matter
Calcareous
Grain Limestone
Corals
Bryozoans
Foram
Echinoids
Fossils (undifferentiated)

GEOLOGISTS: B.L. CULP
C.K. LUNT
E.A. JAMES
R.L. GRAHAM

LITHOLOGY INTERPRETED BY: C.K. LUNT **DATE:** July, 1968


CEMENT PLUG
SEA LEVEL 350'
13 3/8"
1000'
700 SX
TOP OF CEMENT
2000'
NUMBER OF CORE C-1
50'
DIP ON CORE 12°
NO CORE RECOVERY
80'
STAGE COLLAR
3000'
PRODUCTION PACKER
TUBING DEPTH
2 7/8"
3500'
OPEN PERFORATIONS
4200'-4300'
2 SPF
THROUGH PERFORATION DST
2
SWAB OR FLOW TEST
II
CEMENT RETAINER 4600'
AGE
GROUP
FORMATION
LITHOLOGY
SHOWS
SHOW OR STAIN
HYDROCARBON CUT
FLUORESCENCE
GAS SHOW
ABOVE SYMBOLS MAY BE COMBINED
DEVIATED OR SIDETRACKED HOLE
OPEN HOLE DST
2
MISRUN
OPEN HOLE SWAB OR FLOW TEST
WIRELINE TEST
SWC WITH RECOVERY
SWC WITH NO RECOVERY
PO
SO - SHOT OFF
PO - PULLED OFF
MF - MISFIRE
DB - DAMAGED BULLET
SWC WITH SHOW
BLOWOUT OF OIL
BLOWOUT OF GAS
WATER FLOW
V
LOSS OF DRILLING FLUID AND PERCENTAGE
OIL PRODUCTION
GAS PRODUCTION
CONDENSATE PRODUCTION
WATER PRODUCTION
INTERPRETED OIL PRODUCTIVE
INTERPRETED GAS PRODUCTIVE
INTERPRETED WATER-BEARING
INTERPRETED CONDENSATE PROD.


GROUP
FORMATION
PERFORATION SQUEEZED
4700'-4800'
2 JPF
4 1/2"
4900'
9 5/8"
5000'
300 SX
LINER
SLOTTED LINER
FORMATION
FORMATION
5250'(-5000) 280'
6000'
125 SX
UNCONFORMITY

G

Y

VV LOST CIRCULATION COMPLETELY

OEM 9.2, 8% MUD TYPE, WEIGHT AND OIL CONTENT

DEVIATION SURVEY 1°

DIRECTIONAL SURVEY 3° N50°E

NORMAL FAULT WITH DISPLACEMENT 300'

REVERSE FAULT WITH DISPLACEMENT 300'

DIPMETER SURVEY WITH DIP DIRECTION AND ANGLE 10° Az 225°

SCHLUMBERGER WIRE LINE LOGGING SERVICES

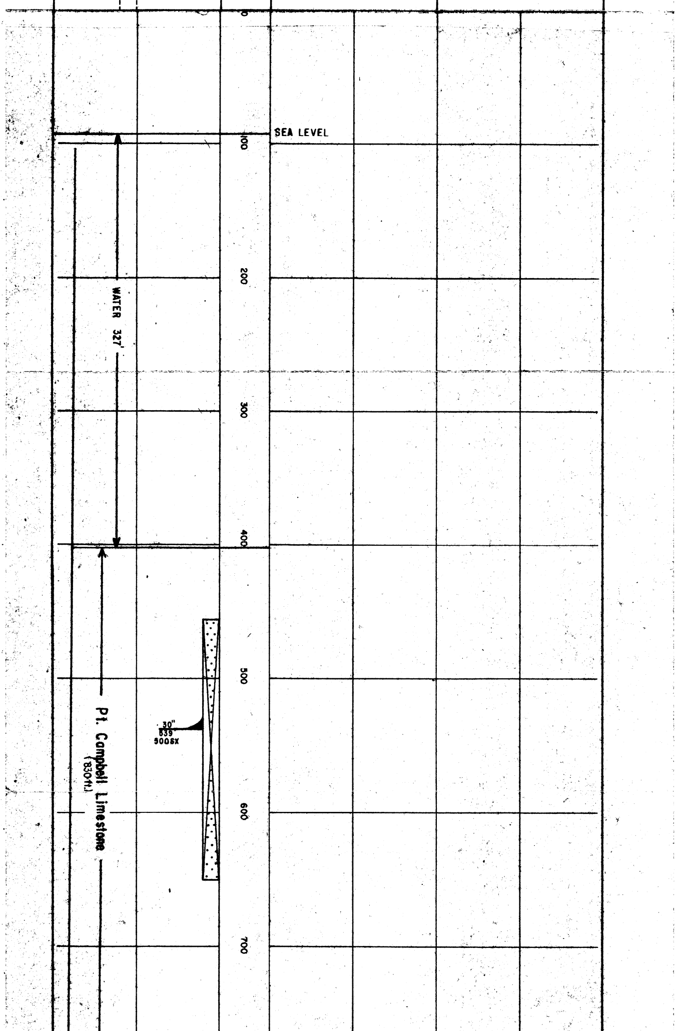
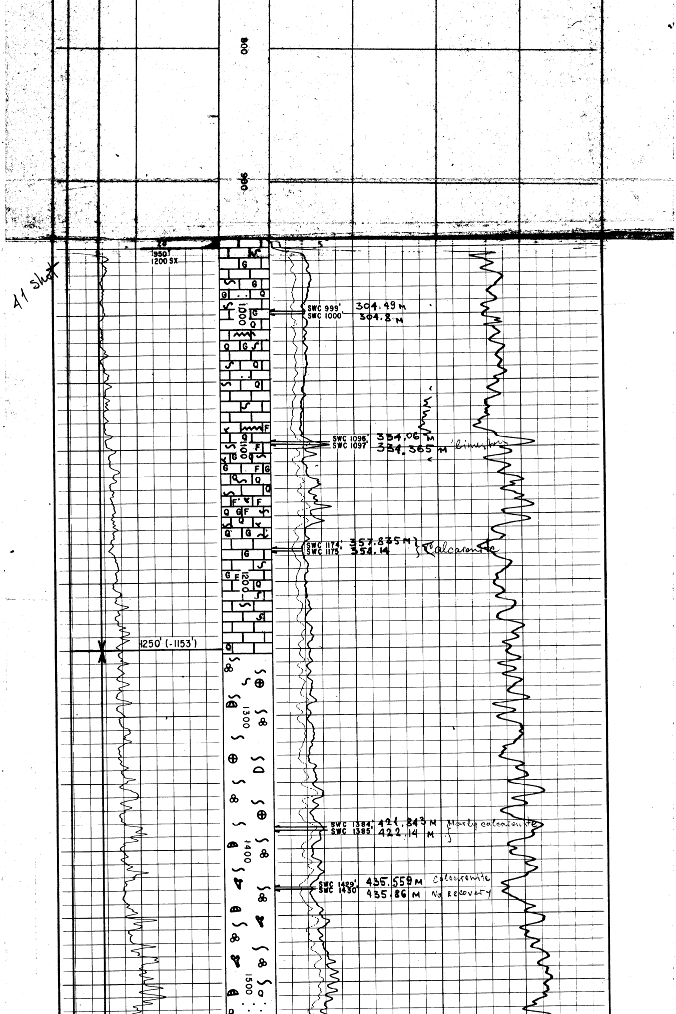
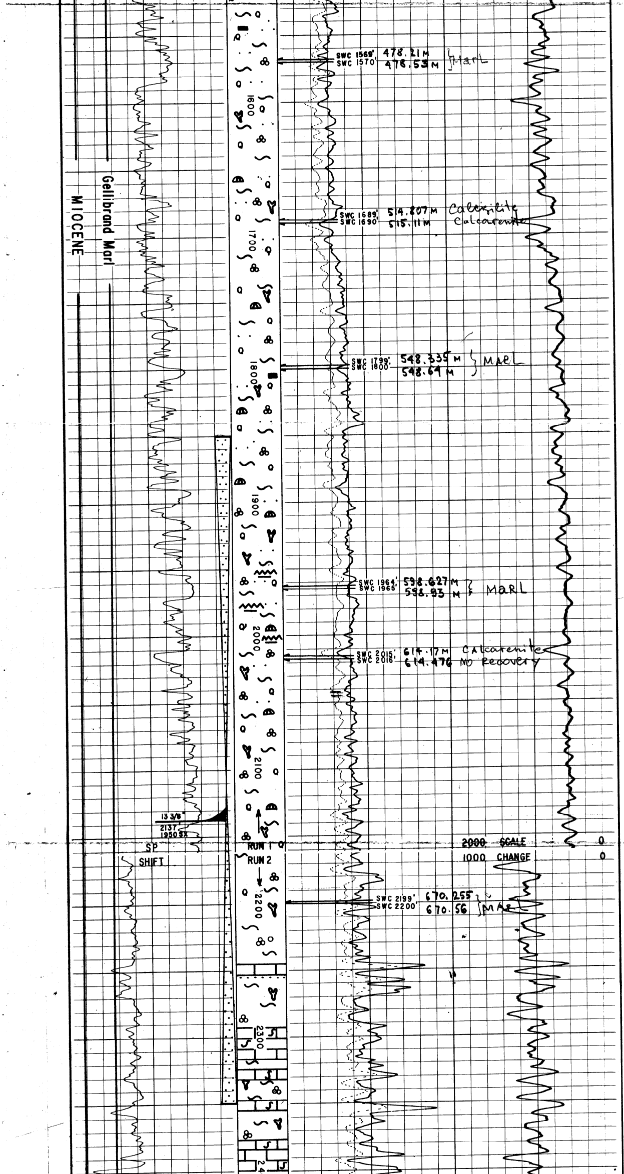
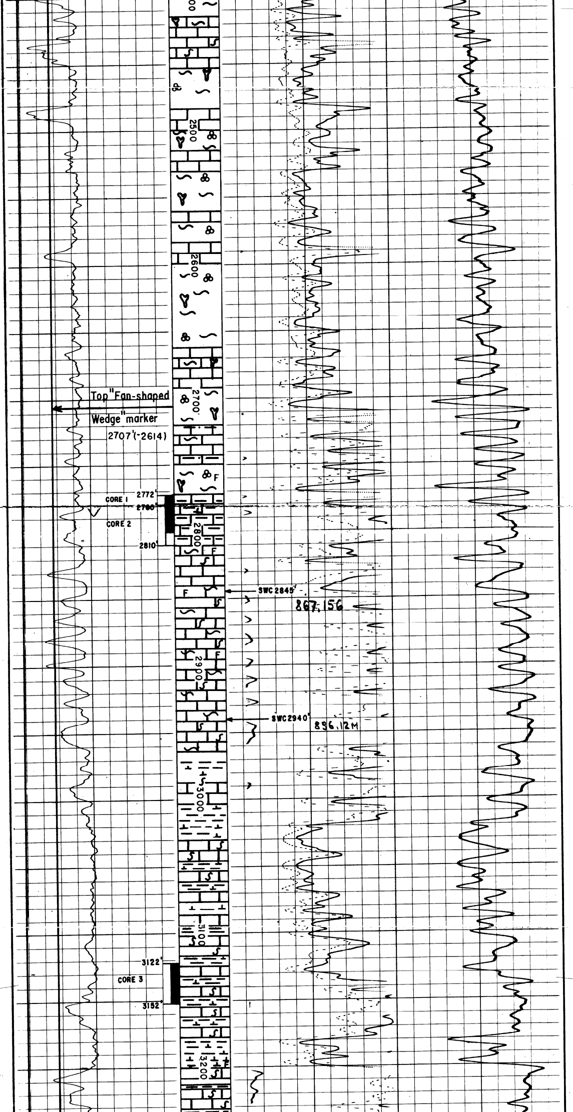
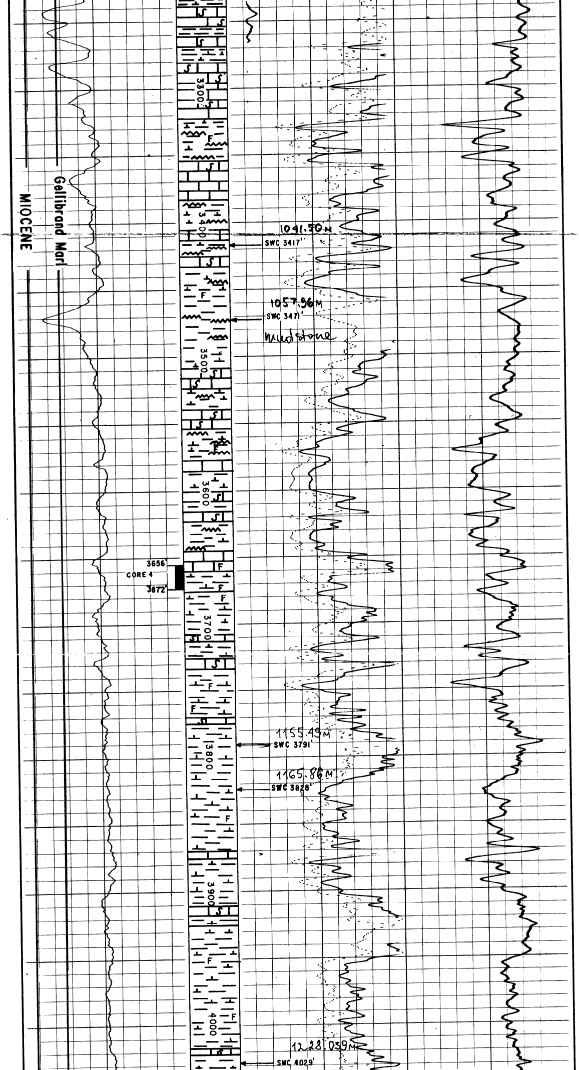
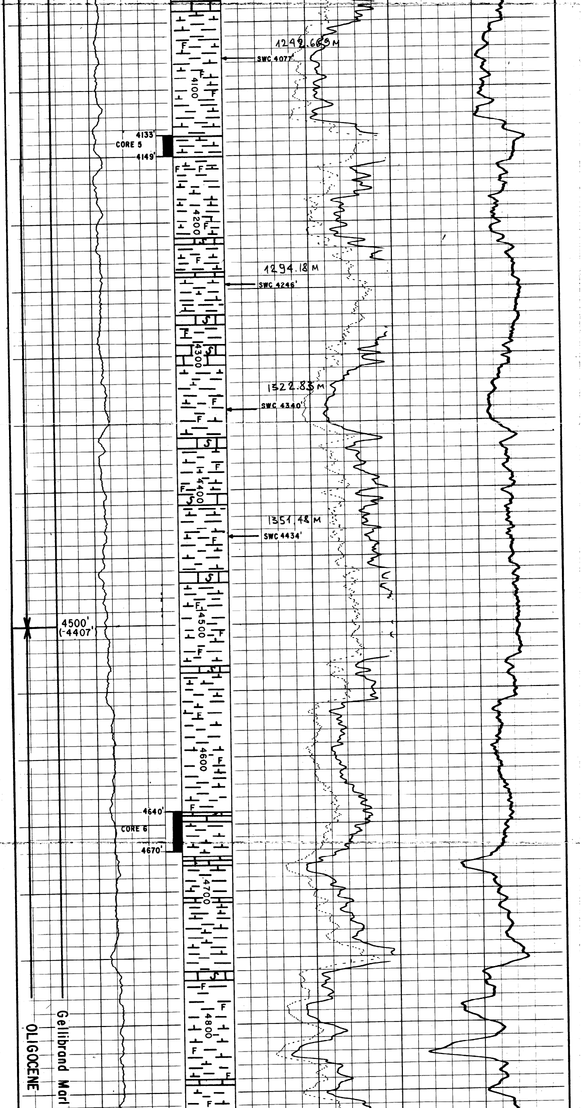
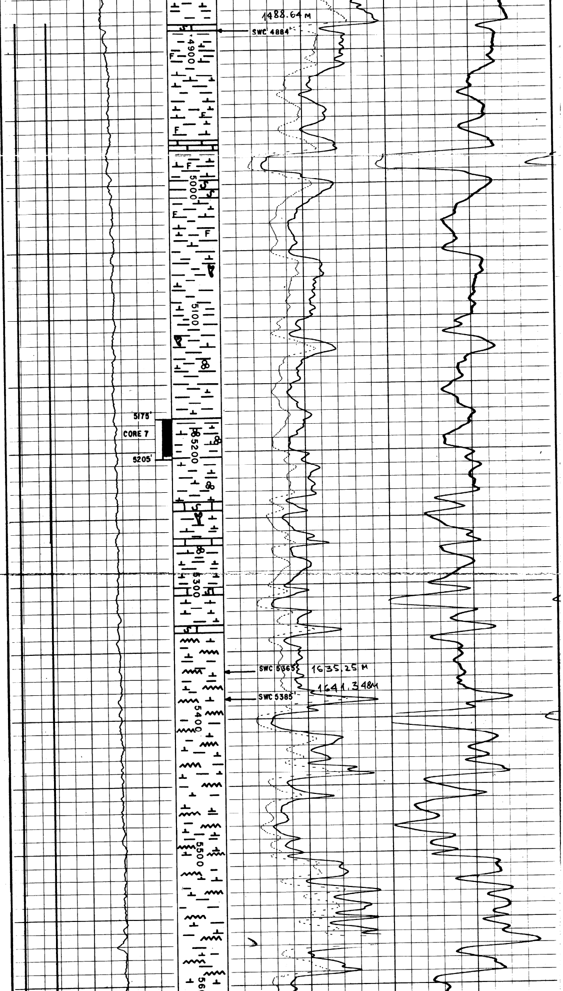
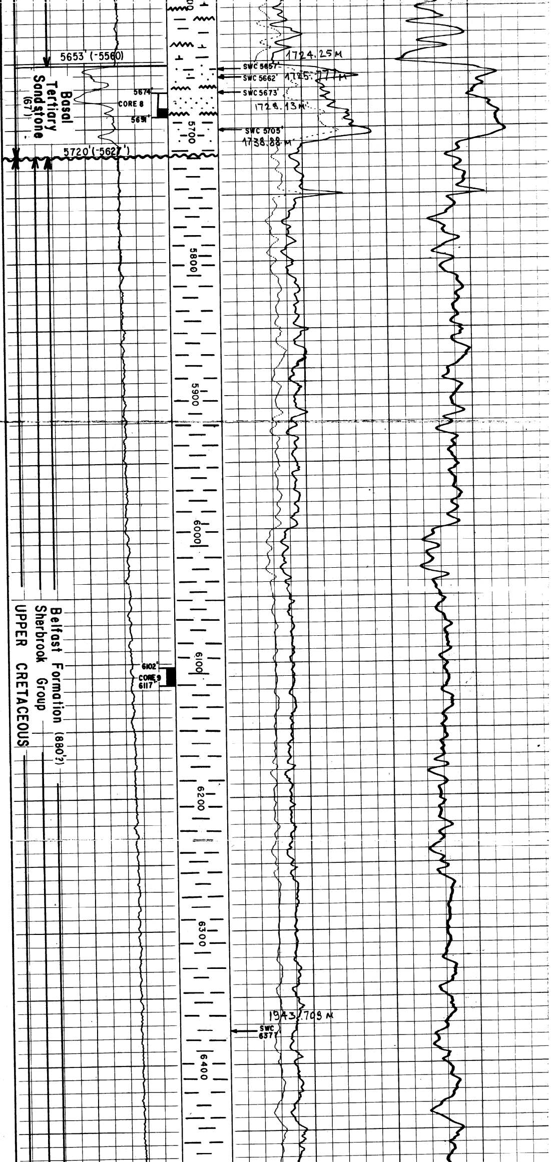
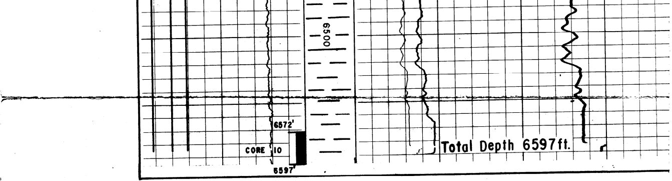
LOG	INTERVAL	LOG	INTERVAL
INDUCTION —— ELECTRIC	950' to 6,566'		
BOREHOLE - SONIC GAMMA RAY	950' to 6,566'		
FORMATION DENSITY	2,137' to 6,566'		
CONTINUOUS DIPMETER	2,137' to 6,560'.		

Run No. Depth Scale	1 2"/100'		2 2"/100'		
Date	20-4-1968		6-5-1968		
First Reading	2209'		6566'		
Last Reading	950'		2137'		
Interval Measured	1259'		4429'		
Casing Cogger	950'		2137'		
Casing Driller	950'		2137'		
Depth Reached	2210'		6567'		
Bottom Driller	2200'		6597'		
Mud Nature	XP - 20 SPERSENE		XP - 20 SPERSENE		
Density Viscosity	9·9 47		10·1 40		
Mud Resistivity	0·89 at 64 °F	0·87 at 62 °F	1·7 at 60 °F	1·55 at 59 °F	at °F
Mud Resistivity BHT	0·56 at 100 °F	at °F	0·75 at 139 °F	at °F	at °F
pH Fluid Loss	8·0 9·0 CC	CC	11 7·4 CC	CC	CC
Origin of Sample	FLOWLINE	FLOWLINE	FLOWLINE		
Rmf	0·66 at 64 °F	0·71 at 60 °F	1·24 at 62 °F	1·3 at 62 °F	at °F
Rmc	1·35 at 63 °F	at °F	1·8 at 63 °F	at °F	at °F
Bit Size 1	26" to 1000	to	12 1/4" to T.D.	to	to
2	8 1/2" to 2200	to	to	to	to
Casing Size	20"		13 3/8"		
Opr. Rig Time	1 1/2 HOURS		2 1/2 HOURS		
Truck No.	0·2072		0·2072		
Recorded by	SINGER		SINGER		
Witness	R. L. GRAHAM		C.K.LUNT		

REMARKS:

LOGGING DATA					EQUIPMENT DATA		
Run No.	1	2			Run No.	1	2
Type of Sonde	6FF40	6FF40			Panel	IRP-F771	IRP-F771
S N Spacing	16"	16"			Cartridge	IRC-F711	IRC-F711
Stand-off	1 1/2"	1 1/2"			Sonde	IRS-M581	IRS-M581
S.B.R.	1	1			Test Loop	ITL-C751	ITL-C751

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms - m^2/m	CONDUCTIVITY millimhos - $m/m^2 = \frac{1000}{ohms - m^2/m}$
- 10 +		16" NORMAL 0 0 0	INDUCTION
		INDUCTION 0 0	


0
SEA LEVEL
100
200
WATER 327'
300
400
500
30"
539
500SX
Pt. Campbell Limestone
(830ft.)
600
700