



**CORE LABORATORIES, INC.**

COMPANY **ESSO STANDARD OIL (AUSTRALIA) LTD.**  
 WELL **WAHOO 1**  
 FIELD **WILDCAT**  
 LOCALITY **VICTORIA** STATE **AUSTRALIA**  
 LOCATION **LAT: 38° 01' 42" S** ELEVATION \_\_\_\_\_  
**LONG: 148° 44' 48" E**

DEPTH LOGGED FROM **900'** TO **2446'** FT.  
 DATE LOGGED **6 JUNE 1969** TO **10 JUNE 1969**  
 CREW CHIEF **MIDDLETON** FILE NO. **FL-155-141**  
 DRILL FLUID **SEA WATER** **800'** TO **1440'** FT.  
**FRESH WATER GEL** **1440'** TO **2446'** FT.



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**ABBREVIATIONS**

NB = NEW BIT  
 NCB = NEW CORE BIT  
 CO = CIRCULATED OUT  
 DST = DRILL STEM TEST  
 LAT = LOGGED AFTER TRIP  
 TG = TRIP GAS  
 NR = NO RETURNS  
 DS = DIRECTIONAL SURVEY  
 DC = DEPTH CORRECTION  
 DEPTHS CORRESPOND TO DRILL PIPE MEASUREMENTS  
 MEASURED FROM \_\_\_\_\_  
 KELLY BUSHING

**RESISTIVITY, OHM-METERS**

Rm = MUD  
 Rmc = MUD CAKE  
 Rmf = MUD FILTRATE

**MUD DATA**

CK = CAKE THICKNESS 32nds  
 V = VISCOSITY API SECONDS  
 F = FILTRATE API CC'S  
 W = WEIGHT (LBS/US GAL)  
 S = SALINITY, ppm Cl NaCl

**LEGEND**

**LITHOLOGY**

SAND	SALT	COAL
CONG.	CLAY	SDOLMITE
ANHYDRITE OR GYPSUM	SHALE	CHERT
MELTONE	MARL	SILTSTONE

**DRILLING RATE**  
 MIN/FT X  
 FT/HR □  
 DRILLING  
 REAMING  
 CORING

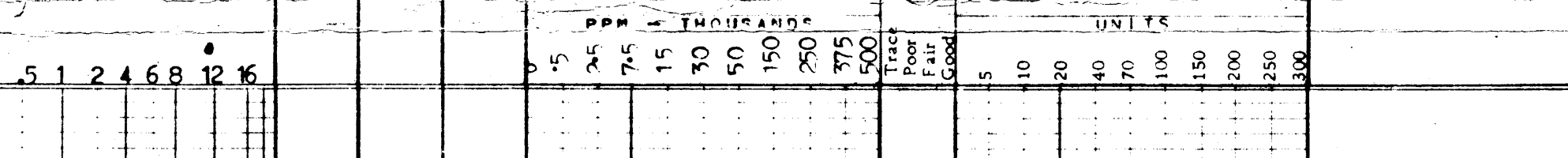
**D R I L L I N G**  
**A C T I V I T Y**  
**L I T H O L O G Y**

**HYDROCARBON ANALYSIS**

**CHROMATOGRAPHIC**  
 Drilling Mud Gas  
 Methane — 2 — Butane — 4 —  
 Ethane — 2 — Pentane — 5 —  
 Propane — 3 — Hexane — 6 —

**HOT WIRE**  
 CO<sub>2</sub> .....  
 Drilling Mud Gas .....  
 H<sub>2</sub>S .....  
 Drill Cuttings Gas .....

**REMARKS**  
**FORMATION DESCRIPTION,**  
**MUD DATA,**  
**DRILL STEM TESTS, etc.**



**Calibration**  
 % Methane = 4000 PPM  
 % Ethane = 5000 PPM  
 % Butane = 2000 PPM

**Calibration**  
 % Methane = 50 UNITS

**VERTICAL SCALE**  
 2" = 100'

**SHALE DENSITY** ρ  
 2.0 2.2 2.4 2.6

**CASING RECORD**  
 30" SHOE AT 380'  
 13 3/8" SHOE AT 744'  
 9 5/8" SHOE AT 1389'

NB NO. 1  
 HTC X3A-J 126  
 T1 BT 106  
 6 1/2 HRS.

NB 1

800'-1190'  
**LIMESTONE:** WH-LT GY  
 ARGILL, MICRITIC,  
 SKETL, UNCONSOL FOSS  
 DEBRIS (ECH, BRY,  
 FORAM.), TR GLAUC,  
 TR DOL.  
**MARL:** V LT GY, SOFT,  
 STICKY, W/SCATT SKEL  
 FOSS DEBRIS. CALC.

**CARBIDE CHECK**  
 DEPTH = 987'  
 CARBIDE = 100 GMS  
 HOT WIRE = 30 UNITS  
 P.H.D. = 3700 PPM  
 LAG = 10 MIN/110ST  
 TWO PUMPS ON HOLE

1190'-1400'  
**LIMESTONE:** LT-MED GY  
 FIRM, MICR, SKEL, ARG,  
 SCATT FOSS DEBRIS-  
 FORAMS, SPINES, ECH,  
 PLATES, BRY, TR GLAUC  
**MARL:** V LT GY, SOFT,  
 STICKY, SCATT FOSS  
 DEBRIS.  
**SHALE:** LT GY-LT GRN  
 GY, SILTY W/OCC V.  
 SL TR GLAUC, FIRM,  
 SL FISS.

1400'-1420'  
**SANDSTONE:** CL-LT GY  
 FN-MED GR, FND-SBRD  
 FAIR SORT, ALMOST  
 PURE QTZ. (ORTHOQTZ)  
**SILTSTONE:** DK GRN-  
 GRN BRN, SBANG-SBRD,  
 ABOV GLAUC, MASSIVE,  
 TR PYRITE.  
**SHALE:** LT GY-LT GRN  
 GY, SILTY W/OCC TR  
 GLAUC, FIRM, SL FISS.

NOTE: NR - FLOWLINE  
 DISCONNECTED.

CORE NO. 1  
 1440'-1445'; REC. 5'

CORE NO. 2  
 1455'-1460'; REC. 5'

1460'-2017'  
**SANDSTONE, SILTST\***  
**ONE, CLAY & COAL:**  
**SANDST:** IS CL-WH QTZ  
 GRNS, UNCONSOL, V. FN  
 TO V. CRSE, OCC GRAN  
 SBRND-RND, POORLY  
 STD, TR PYR; AND FROM  
 1520'-1810' IN CON-  
 JUNCTION WITH QTZ  
 GRAVEL FROM 5 TO 10  
 MM, WELL RND W/GRN  
 STAINING.  
**SILTST:** IS GRN GY TO  
 MOTTLED BRN AND GRN  
 ARGILL, GLAUC AND  
 SANDY W/QTZ GRAINS  
 V. FN-MED OCC CRSE,  
 SBRND, HARD POORLY  
 SORTED, HARD, TIGHT.  
**CLAY:** IS WH-V. LT GY,  
 SOFT, STICKY, W/DISP  
 ERSED V. FN-FN QTZ  
 AND LITHIC GRAINS.  
**COAL:** V. DK BRN-DULL  
 BLK, FIBROUS CARBON  
 USED PLANT MATTER,  
 TR SUB BIT IN PART.

**CARBIDE CHECK**  
 DEPTH = 1831'  
 CARBIDE = 180GMS  
 HOT WIRE = 57UNITS  
 P.H.D. = 3500PPM  
 LAG = 16 MIN/56SPM

NOTE: FROM 1440' TO  
 1620' NaCl IN MUD  
 RANGED FROM 9520  
 TO 10,890 PPM

**MUD DATA**  
 DEPTH = 2012'  
 W = 12.3 APV = 42  
 V = 58 PV = 39  
 WL = 8.0 YG = 6  
 CK = 2 I/G = 3  
 PH = 10.8 10G = 46  
 CA = 780 ALK = 0.36  
 NACL = 8080 SD = 2%  
 SOL = 20% RMF = .575  
 AT 720F

CORE NO. 3  
 2017'-2047'; REC. 29

2047'-2446'  
**SANDSTONE:** LITHIC.  
 FELDSPATHIC, V. LT  
 GY-GY GRN W/GRN,  
 BLK AND ORANGE LITH  
 ICS, V. FN-FN, A-SA,  
 WELL STD, ABOV CLAY  
 MATRIX, SCATT UNCON  
 SOL QTZ GRNS, CL WH  
 TO FROSTED, FN-GRN  
**CLAY:** LT-V. LT GY W/  
 SOME BUFF, V. SOFT,  
 STICKY, W/V. FN-FN  
 QTZ AND LITH FRAGS  
**SHALE:** LT-MED GY &  
 GRN, FIRM, BLOCKY, SL  
 FISS, HOMOGENEOUS.  
**SILTSTONE:** MED-LT  
 GY, GRN IN PART, ARG  
 FIRM TO SOFT.  
**COAL:** DULL BLK TO  
 SHINY IN PART, SUB  
 BIT WITH CONCHOID'L  
 FRAC IN PART.  
 NOTE: FROM 1580'  
 COMPLETELY UNWAS-  
 HED SAMPLE WAS  
 USED IN BLENDOR  
 FOR CUTTINGS GAS.

**TOTAL DEPTH.**  
 2446'