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WELL MACKEREL NO. 4  
 COMPANY ESSO AUSTRALIA LTD.  
 COUNTY GIPPSLAND BASIN  
 STATE VICTORIA

**LEGEND**  
 DEPTH CORRESPONDS TO DRILL  
 PIPE MEASUREMENTS.  
 NB NEW BIT  
 NCB NEW CORE BIT  
 DST DRILL STEM TEST  
 NR NO RETURNS  
 TG TRIP GAS  
 CO CIRCULATE OUT RETURNS

**LITHOLOGY**

|       |               |            |         |
|-------|---------------|------------|---------|
| SAND  | GRANITE WASH  | LIME STONE | CHERT   |
| SHALE | GYP ANHYDRITE | DOLOMITE   | LIGNITE |

**CUTTINGS ANALYSIS**

TOTAL GAS \_\_\_\_\_  
 METHANE \_\_\_\_\_  
 LIQUID HYDROCARBONS (C<sub>6+</sub>) \_\_\_\_\_

**DRILLING RATE**  
 FT. PER HR.  MIN. PER FT.  
 500 300 100  
 VISUAL POROSITY  
 GST

LITHOLOGY

**ppm HYDROCARBONS IN MUD M=1000**

| OIL TSG | C <sub>1</sub> |    |     | C <sub>2</sub> |    | C <sub>3</sub> |    | C <sub>4</sub> |    | C <sub>5+</sub> |    | OIL TSG |
|---------|----------------|----|-----|----------------|----|----------------|----|----------------|----|-----------------|----|---------|
|         | 1M             | 5M | 10M | 0              | 1M | 0              | 1M | 0              | 1M | 0               | 1M |         |
| 25      | 50             | 75 |     | 2500           |    | 25             |    |                |    |                 |    |         |

STARTED LOGGING AT 6:10 PM ON FEBRUARY 14, 1973  
 WATER DEPTH = 273'; 20" CASING SET AT 690'  
 DRILLING WITH SEAWATER, 13 3/4" HOLE.  
 GAS, 30 UNITS = 1% TOTAL GAS IN AIR  
 PPM C<sub>1</sub> \_\_\_\_\_ PPM C<sub>2</sub> \_\_\_\_\_ PPM C<sub>3</sub> \_\_\_\_\_ PPM C<sub>4</sub> \_\_\_\_\_ PPM C<sub>5</sub> \_\_\_\_\_  
 HOT WIRE - - - - - CO<sub>2</sub> - - - - - H<sub>2</sub>S - - - - -

NB-2, OSC-3AJ  
 14 HRS.

DRILL RATE 740' TO 955' UNLOGGED DUE TO BROKEN GEOLOGRAPH LINE.

700

800

DEPT. NAT. RES & ENV  
  
 PE603333