

PETROLEUM DIVISION

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ROUTINE CORE ANALYSIS REPORT of HALIBUT NO. 2 for ESSO AUSTRALIA LTD by ACS LABORATORIES PTY LTD 1 8 AUG 1995 20 July, 1995



Esso Australia Ltd 360 Elizabeth Street MELBOURNE VIC 3000

Attention: A. Mills

REPORT: 002-214 - WELL NAME: HALIBUT NO. 2

CLIENT REFERENCE: C

Contract No. 2710080 RFS No. 5

MATERIAL:

Core Plugs

LOCALITY:

Gippsland Basin

WORK REQUIRED:

Routine Core Analysis

Please direct technical enquiries regarding this work to the signatory below under whose supervision the work was carried out.

Per

W J'(Bill) DERKSEMA Laboratory Supervisor on behalf of ACS Laboratories Pty. Ltd.

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20 July, 1995



Esso Australia Ltd 360 Elizabeth Street MELBOURNE VIC 3000

Attention: A. Mills

FINAL DATA REPORT - ROUTINE CORE ANALYSIS

REPORT: 002-214 WELL NAME: HALIBUT NO. 2

LOGISTICS

246 core plugs were delivered to ACS Laboratories, Brisbane on 19 May 1995. The plugs (including vertical plugs) arrived stored in vials and consisted of 34 plugs from Core No. 1, 108 plugs from Core No. 2 and 104 plugs from Core No. 3.

INTRODUCTION

The following report includes tabular data of permeability to air, helium injection porosity and density determinations. Data presented graphically includes a core log plot of the above and a porosity versus permeability to air plot.

STUDY AIMS

The analyses were performed with the following aims:

1. To provide overburden air permeability, helium injection porosity and density data.

Samples were prepared and analysed as follows:

1. SAMPLE EXTRACTION

Plugs from Core Nos. 1, 2 and 3 were extracted initially in a Soxhlet with toluene solvent, followed by solvent Soxhlet extraction using 3:1 chloroform/methanol, providing a second clean to remove any remaining oil and salt. core plugs were removed and checked under ultraviolet light to ensure all hydrocarbons had been removed.

2. SAMPLE DRYING

After cleaning, all plugs were dried in a controlled humidity environment at 50°C and 50% relative humidity. The plugs were stored in an airtight plastic container and allowed to cool to room temperature before analysis.

3. OVERBURDEN AIR PERMEABILITY

The plugs are placed in a heavy duty Hassler sleeve. The assembly is loaded into a thick walled hydrostatic cell capable of withstanding the simulated reservoir overburden stress. The overburden pressure used, as supplied by Esso, was 4100 psi.

During the measurement a known air pressure is applied to the upstream face of the sample, creating a flow of air through the sample. Permeability for each sample is then calculated using Darcy's Law through knowledge of the upstream pressure and flow rate during the test, the viscosity of air and the plug dimensions.

4. OVERBURDEN HELIUM INJECTION POROSITY

Overburden Helium Injection Porosities are determined indirectly by the following method:

The apparent grain volume of each sample was measured by expansion of helium into the sample loaded in a matrix cup. The grain volume is derived by application of Boyle's law. The bulk volume of the sample is determined by mercury immersion. The sample is then loaded into a hydrostatic cell where the pore volume reduction, from ambient to the applied overburden stress is determined by measuring changes in the helium pressure within the pore space and applying Boyle's law. The reduction in the bulk volume is assumed to be equivalent to a reduction in the pore volume. Grain volume remains constant. Where samples are sleeved, corrections are made to account for the weight and volume of sleeves and screens.

5. **APPARENT GRAIN DENSITY**

The apparent grain density is determined by dividing the weight of the plug by the grain volume determined from the helium injection porosity measurement.

6. **ABSOLUTE GRAIN DENSITY**

A plug offcut, uncleaned and oven dried, is used for this measurement. The sample is crushed to approximately grain size or a little coarser and the granular material weighed. The volume of the grains is determined by pyconometry. By this means the actual density of the grains is determined.

On completion of the analysis the plug samples were re-wrapped in gladwrap and tissue, and are presently stored at ACS Laboratories for possible future studies.

We have enjoyed working for Esso and look forward to working with you in the near future.

END OF REPORT

Company ESSO AUSTRALIA LTD. Well HALIBUT No.2

 Core Interval
 Core 1: 2350.00-2356.60m

 Core Interval
 Core 2: 2410.00-2428.50m

 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

| Sample | | Permeability | | Grain I | | |
|--------|----------|----------------|-----------|----------------------|----------------------|----------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 1 R | 2350.06 | 1.12 | 12.5 | 2.77 | 2.75 | C#1 Slvd |
| 3 R | 2350.20 | 0.49 | 10.7 | 2.76 | 2.79 | Sleeved |
| 5 R | 2350.40 | 0.16 | 11.3 | 2.84 | 2.89 | |
| 7 R | 2350.61 | 0.35 | 11.5 | 2.86 | 2.84 | |
| 9 R | 2350.80 | 0.07 | 8.6 | 2.77 | 2.78 | |
| 11 V | 2350.95 | 0.06 | 10.1 | 2.76 | 2.75 | Slv-Vert |
| 13 R | 2351.13 | 4192 | 17.6 | 2.69 | 2.67 | Sleeved |
| 14 R | 2351.20 | 4665 | 18.5 | 2.68 | 2.65 | Sleeved |
| 16 R | 2351.40 | 3237 | 17.1 | 2.70 | 2.66 | Sleeved |
| 20 R | 2351.60 | 8244 | 19.2 | 2.70 | 2.67 | Sleeved |
| 25 R | 2351.80 | 3037 | 16.5 | 2.75 | 2.67 | Sleeved |
| 27 V | 2351.95 | 1.94 | 15.2 | 2.64 | 2.64 | Slv-Vert |
| 28 R | 2352.06 | 11601 | 16.4 | 2.68 | 2.64 | Sleeved |
| 32 R | 2352.25 | 12738 | 19.7 | 2.66 | 2.65 | Sleeved |
| 36 R | 2352.40 | 5659 | 18.4 | 2.64 | 2.63 | Sleeved |
| 41 R | 2352.60 | 508 | 14.7 | 2.64 | 2.63 | Sleeved |
| 46 R | 2352.80 | 7827 | 17.9 | 2.64 | 2.62 | Sleeved |
| 48 R | 2353.04 | 0.09 | 8.3 | 2.64 | 2.64 | Sleeved |
| 54 R | 2353.25 | 1452 | 11.9 | 2.64 | 2.64 | Sleeved |
| 58 R | 2353.40 | 8361 | 18.8 | 2.65 | 2.63 | Sleeved |
| 65 R | 2353.65 | 15.6 | 12.4 | 2.63 | 2.62 | Sleeved |
| 69 R | 2353.80 | 0.12 | 12.3 | 2.64 | 2.64 | |
| 73 R | 2354.08 | 4918 | 16.6 | 2.66 | 2.62 | Sleeved |
| 76 R | 2354.20 | 0.01 | 6.1 | 2.65 | 2.64 | |
| 81 R | 2354.40 | 0.05 | 7.4 | 2.64 | 2.64 | |
| 86 R | 2354.60 | 7097 | 18.7 | 2.64 | 2.62 | Sleeved |
| 91 R | 2354.80 | 3.44 | 13.4 | 2.65 | 2.62 | Sleeved |
| 93 V | 2354.95 | 0.05 | 13.0 | 2.61 | 2.62 | Slv-Vert |
| 94 R | 2355.07 | 0.23 | 12.6 | 2.64 | 2.63 | |
| 97 R | 2355.17 | 0.12 | 12.3 | 2.63 | 2.62 | |
| 02 R | 2355.40 | 7199 | 16.8 | 2.69 | 2.66 | Sleeved |
| 05 R | 2355.60 | 3106 | 14.7 | 2.65 | 2.63 | Sleeved |
| 07 R | 2355.80 | 0.19 | 10.3 | 2.66 | 2.64 | |
| 12 R | 2356.20 | 9183 | 23.4 | 2.66 | 2.65 | B#1 Slvd |
| 20 R | 2410.08 | 587 | 20.3 | 2.65 | 2.63 | C#2 |
| 23 R | 2410.20 | 1364 | 21.6 | 2.65 | 2.63 | |
| 28 R | 2410.39 | 1385 | 22.3 | 2.64 | 2.62 | |
| 33 R | 2410.60 | 4852 | 22.7 | 2.64 | 2.62 | |
| 38 R | 2410.82 | 615 | 22.2 | 2.65 | 2.64 | |
| 40 V | 2410.95 | 1114 | 24.4 | 2.64 | 2.62 | Vertical |
| 41 R | 2411.03 | 2507 | 25.3 | 2.64 | 2.62 | |
| 45 R | 2411.25 | 1256 | 23.6 | 2.65 | 2.63 | |

Company ESSO AUSTRALIA LTD. Well HALIBUT No.2
 Core Interval
 Core 1: 2350.00-2356.60m

 Core Interval
 Core 2: 2410.00-2428.50m

 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

| Sample | | Permeability | | Grain Density | | |
|--------|----------|----------------|-----------|----------------------|----------------------|----------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 150 R | 2411.40 | 851 | 22.6 | 2.64 | 2.62 | |
| 152 R | 2411.60 | 3003 | 23.5 | 2.65 | 2.63 | |
| 154 R | 2411.80 | 6252 | 20.8 | 2.66 | 2.65 | |
| 156 V | 2411.95 | 3824 | 20.4 | 2.65 | 2.64 | Vertical |
| 157 R | 2412.03 | 3119 | 18.0 | 2.65 | 2.63 | |
| 161 R | 2412.25 | 4725 | 18.3 | 2.66 | 2.65 | |
| 165 R | 2412.40 | 16873 | 22.4 | 2.66 | 2.64 | |
| 169 R | 2412.55 | 16410 | 21.9 | 2.65 | 2.63 | |
| 74 R | 2412.80 | 14558 | 21.3 | 2.67 | 2.64 | |
| 176 V | 2412.95 | 16793 | 22.9 | 2.65 | 2.64 | Vertical |
| 177 R | 2413.04 | 12974 | 22.0 | 2.65 | 2.63 | |
| 181 R | 2413.20 | 17308 | 22.6 | 2.66 | 2.63 | |
| 185 R | 2413.40 | 17072 | 18.5 | 2.66 | 2.64 | |
| 189 R | 2413.60 | 15997 | 18.4 | 2.66 | 2.64 | |
| 194 R | 2413.80 | 18268 | 20.8 | 2.66 | 2.64 | |
| 196 V | 2413.95 | 16344 | 18.4 | 2.66 | 2.64 | Vertical |
| 197 R | 2414.03 | 17419 | 21.2 | 2.66 | 2.66 | |
| 199 R | 2414.20 | 17540 | 21.5 | 2.66 | 2.65 | |
| 201 R | 2414.40 | 17759 | 21.2 | 2.66 | 2.64 | Sleeved |
| 203 R | 2414.60 | 14362 | 20.0 | 2.65 | 2.63 | Sleeved |
| 205 R | 2414.80 | 5622 | 16.3 | 2.65 | 2.64 | Sleeved |
| 207 V | 2414.95 | 2559 | 13.4 | 2.64 | 2.64 | Vertical |
| 208 R | 2415.04 | 4195 | 14.6 | 2.65 | 2.63 | |
| 210 R | 2415.20 | 3857 | 15.8 | 2.65 | 2.64 | |
| 212 R | 2415.40 | 6917 | 16.9 | 2.65 | 2.64 | |
| 214 R | 2415.60 | 8004 | 16.7 | 2.65 | 2.64 | |
| 584 R | 2415.95 | < 0.01 | 3.4 | 2.70 | 2.75 | C#2 Ver |
| 585 R | 2416.07 | < 0.01 | 4.4 | 2.70 | 2.70 | |
| 587 R | 2416.20 | 0.01 | 5.3 | 2.71 | 2.71 | |
| 589 R | 2416.40 | 0.05 | 7.0 | 2.69 | 2.67 | |
| 591 R | 2416.60 | < 0.01 | 7.5 | 3.01 | 3.15 | |
| 218 R | 2416.80 | 0.18 | 10.6 | 2.68 | 2.66 | |
| 593 V | 2416.95 | 7.41 | 16.9 | 2.68 | 2.72 | Vertical |
| 220 R | 2417.04 | 19.3 | 17.0 | 2.68 | 2.66 | |
| 222 R | 2417.20 | 0.74 | 11.8 | 2.66 | 2.65 | |
| 224 R | 2417.40 | 3.66 | 13.3 | 2.66 | 2.64 | |
| 226 R | 2417.60 | 0.07 | 8.2 | 2.65 | 2.62 | |
| 228 R | 2417.80 | 0.03 | 8.2 | 2.70 | 2.67 | |
| 230 V | 2417.95 | 0.07 | 10.2 | 2.69 | 2.69 | Vertical |
| 231 R | 2418.03 | 0.40 | 11.5 | 2.68 | 2.67 | |
| 233 R | 2418.20 | 0.07 | 9.1 | 2.71 | 2.66 | |
| 237 R | 2418.40 | 0.08 | 9.7 | 2.72 | 2.70 | |

CompanyESSO AUSTRALIA LTD.WellHALIBUT No.2

 Core Interval
 Core 1: 2350.00-2356.60m

 Core Interval
 Core 2: 2410.00-2428.50m

 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

| | | Permeability | | Grain I | | |
|----------------|-----------------|----------------|------------|----------------------|----------------------|------------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 242 R | 2418.60 | 1.68 | 13.2 | 2.70 | 2.66 | |
| 244 R | 2418.80 | 0.18 | 10.3 | 2.65 | 2.63 | |
| 246 V | 2418.95 | 1.64 | 14.1 | 2.64 | 2.62 | Vertical |
| 247 R | 2 419.03 | 68.5 | 16.0 | 2.65 | 2.63 | |
| 249 R | 2419.20 | 0.29 | 11.3 | 2.66 | 2.63 | |
| 251 R | 2419.40 | 130 | 19.0 | 2.65 | 2.62 | |
| 253 R | 2 419.60 | 58.3 | 15.4 | 2.66 | 2.63 | |
| 255 R | 2419.80 | 32.1 | 15.2 | 2.66 | 2.63 | |
| 257 V | 2419.95 | 0.57 | 13.2 | 2.65 | 2.62 | Vertical |
| 258 R | 2420.03 | 4.63 | 13.6 | 2.65 | 2.64 | |
| 260 R | 2420.20 | 26.3 | 14.2 | 2.66 | 2.64 | |
| 262 R | 2420.35 | 2192 | 18.7 | 2.65 | 2.63 | |
| 266 R | 2420.55 | 1155 | 21.8 | 2.67 | 2.66 | |
| 270 R | 2420.80 | 421 | 18.9 | 2.69 | 2.71 | |
| 272 V | 2420.95 | 0.91 | 14.2 | 2.70 | 2.69 | Vertical |
| 273 R | 2421.03 | 23.0 | 14.9 | 2.73 | 2.71 | |
| 275 R | 2421.20 | 1281 | 19.1 | 2.68 | 2.66 | |
| 275 R 277 R | 2421.40 | 5680 | 23.9 | 2.65 | 2.64 | |
| 279 R | 2421.60 | 6806 | 25.1 | 2.65 | 2.63 | |
| 281 R | 2421.80 | 2115 | 22.7 | 2.65 | 2.64 | |
| 283 V | 2421.95 | 1473 | 19.6 | 2.65 | 2.64 | Vertical |
| 285 V 284 R | 2422.03 | 1917 | 22.8 | 2.64 | 2.62 | |
| 286 R | 2422.20 | 3126 | 22.7 | 2.65 | 2.65 | |
| 292 R | 2422.45 | 2934 | 22.7 | 2.65 | 2.65 | |
| 294 R | 2422.60 | 3720 | 23.1 | 2.64 | 2.64 | |
| 296 R | 2422.80 | 4745 | 23.7 | 2.64 | 2.64 | |
| 298 V | 2422.95 | 361 | 20.8 | 2.65 | 2.64 | Vertical |
| 299 R | 2423.04 | 213 | 16.2 | 2.67 | 2.66 | |
| 301 R | 2423.20 | 4459 | 23.5 | 2.64 | 2.63 | |
| 303 R | 2423.40 | 2229 | 22.5 | 2.65 | 2.64 | |
| 305 R | 2423.60 | 3757 | 23.3 | 2.66 | 2.64 | |
| 307 R | 2423.80 | 3587 | 22.6 | 2.65 | 2.63 | |
| | 2423.80 | 4078 | 24.0 | 2.64 | 2.62 | Vertical |
| 309 V | | 1464 | 21.6 | 2.65 | 2.62 | · critical |
| 310 R | 2424.03 | 1740 | 22.9 | 2.65 | 2.61 | |
| 312 R | 2424.20 | | 19.8 | 2.65 | 2.61 | |
| 314 R | 2424.40 | 994 | | 2.63 2.67 | 2.65 | Vertical |
| 320 V | 2424.95 | 0.02 | 7.6 | | 2.63 | verticar |
| 321 R | 2425.03 | 0.05 | 6.2 | 2.62 | 2.62 | |
| 323 R | 2425.20 | 0.08 | 8.6 | 2.64 2.66 | 2.62 | |
| 325 R | 2425.40 | 0.05 | 9.9 7.0 | | | |
| 327 R | 2425.60 | 0.02 0.03 | 7.9 7.4 | 2.62 2.63 | 2.64 2.61 | VF |

CompanyESSO AUSTRALIA LTD.WellHALIBUT No.2

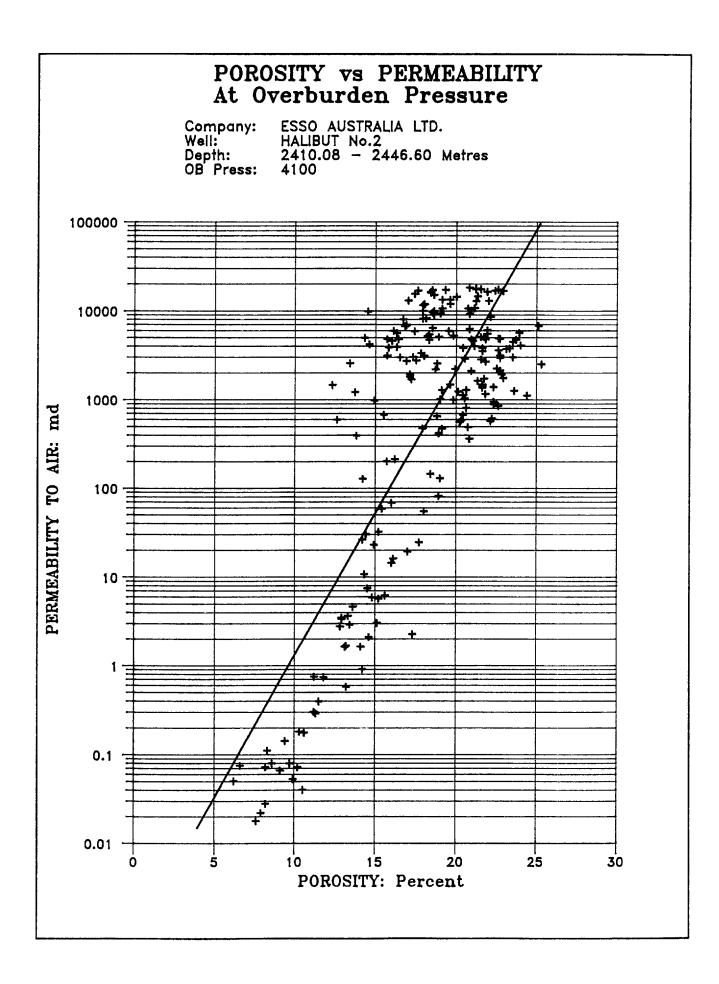
 Core Interval
 Core 1: 2350.00-2356.60m

 Core Interval
 Core 2: 2410.00-2428.50m

 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

| Sample | | Permeability | | Grain I | | |
|--------|----------|----------------|-----------|----------------------|----------------------|----------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 331 V | 2425.95 | < 0.01 | 6.8 | 2.63 | 2.61 | Vertical |
| 332 R | 2426.04 | 7.46 | 14.5 | 2.63 | 2.62 | |
| 334 R | 2426.20 | 202 | 15.7 | 2.63 | 2.62 | |
| 336 R | 2426.40 | 951 | 22.3 | 2.63 | 2.62 | |
| 341 R | 2426.60 | 54.6 | 18.0 | 2.63 | 2.63 | |
| 343 R | 2426.80 | 145 | 18.4 | 2.63 | 2.63 | |
| 345 V | 2426.95 | 24.5 | 17.7 | 2.63 | 2.63 | Vertical |
| 346 R | 2427.04 | 1231 | 20.1 | 2.64 | 2.63 | |
| 348 R | 2427.20 | 1689 | 17.2 | 2.64 | 2.63 | |
| 350 R | 2427.40 | 652 | 18.8 | 2.58 | 2.57 | VF |
| 352 R | 2427.60 | 676 | 15.5 | 2.61 | 2.62 | |
| 354 R | 2427.80 | 30.1 | 14.4 | 2.64 | 2.63 | |
| 356 V | 2427.90 | 16.0 | 16.1 | 2.64 | 2.64 | Vertical |
| 357 R | 2428.00 | 5.89 | 14.8 | 2.62 | 2.60 | |
| 359 R | 2428.19 | 491 | 20.7 | 2.65 | 2.64 | |
| 361 R | 2428.35 | 81.4 | 18.9 | 2.66 | 2.66 | B#2 |
| 365 R | 2428.80 | .11 | 8.3 | 2.67 | 2.66 | C#3 |
| 369 R | 2429.22 | .30 | 11.2 | 2.66 | 2.66 | |
| 373 V | 2429.45 | 2.27 | 17.3 | 2.64 | 2.63 | Vertical |
| 374 R | 2429,60 | 886 | 22.3 | 2.65 | 2.63 | |
| 376 R | 2429.80 | 571 | 22.1 | 2.65 | 2.64 | |
| 881 R | 2430.00 | 807 | 20.6 | 2.64 | 2.65 | |
| 384 R | 2430.20 | 1031 | 20.5 | 2.64 | 2.64 | |
| 388 V | 2430.45 | < 0.01 | 3.9 | 2.58 | 2.61 | Vertical |
| 389 R | 2430.60 | 472 | 19.1 | 2.64 | 2.65 | |
| 391 R | 2430.80 | 1117 | 20.4 | 2.64 | 2.63 | |
| 393 R | 2431.00 | 1626 | 21.3 | 2.64 | 2.63 | |
| 395 R | 2431.20 | 2.90 | 13.4 | 2.66 | 2.64 | |
| 97 R | 2431.40 | 3.48 | 12.9 | 2.63 | 2.63 | |
| 399 V | 2431.45 | 2.10 | 14.6 | 2.65 | 2.66 | Vertical |
| 400 R | 2431.60 | 2.77 | 12.8 | 2.65 | 2.64 | |
| 02 R | 2431.80 | 14.3 | 16.0 | 2.65 | 2.64 | |
| 404 R | 2432.00 | 1.63 | 13.1 | 2.65 | 2.64 | |
| 106 R | 2432.20 | .08 | 6.6 | 2.62 | 2.64 | VF |
| 408 R | 2432.40 | 475 | 17.9 | 2.54 | 2.57 | Coaly |
| 410 V | 2432.45 | 1015 | 19.0 | 2.60 | 2.59 | Vertical |
| 411 R | 2432.60 | 1395 | 21.6 | 2.60 | 2.62 | |
| 413 R | 2432.80 | 1719 | 21.7 | 2.63 | 2.71 | |
| 415 R | 2433.00 | 3801 | 21.6 | 2.63 | 2.64 | |
| 417 R | 2433.20 | 2885 | 20.5 | 2.63 | 2.65 | |
| 419 R | 2433.40 | 2669 | 21.8 | 2.64 | 2.64 | |
| 421 V | 2433.45 | 2834 | 21.5 | 2.64 | 2.63 | Vertical |



CORE PLOT

CompanyESSO AUSTRALIA LTD.WellHALIBUT No.2

 Core Interval
 Core 1: 2350.00-2356.60m

 Core Interval
 Core 2: 2410.00-2428.50m

 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

| Sample | | Permeability | | Grain I | | |
|--------------|--------------------|----------------|-----------|----------------------|----------------------|----------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 22 R | 2433.60 | 5507 | 21.9 | 2.63 | 2.62 | |
| 27 R | 2433.80 | 4900 | 22.6 | 2.63 | 2.61 | |
| 29 R | 2434.00 | 1800 | 17.1 | 2.63 | 2.63 | |
| 31 R | 2434.20 | 5062 | 21.5 | 2.64 | 2.64 | |
| 33 R | 2434.40 | 12866 | 21.2 | 2.65 | 2.65 | |
| 35 V | 2434.45 | 10723 | 21.1 | 2.66 | 2.64 | Vertical |
| 36 R | 2434.60 | 6071 | 21.9 | 2.65 | 2.64 | |
| 38 R | 2434.80 | 9236 | 20.8 | 2.65 | 2.64 | |
| 40 R | 2435.00 | 8595 | 22.1 | 2.65 | 2.64 | |
| 42 R | 2435.20 | 11520 | 17.9 | 2.65 | 2.64 | |
| 44 R | 2435.36 | 10615 | 19.1 | 2.65 | 2.64 | |
| 48 V | 2435.45 | 4769 | 20.9 | 2.64 | 2.64 | Vertical |
| 49 R | 2435.60 | 2193 | 19.9 | 2.64 | 2.64 | |
| 51 R | 2435.75 | 2543 | 18.8 | 2.65 | 2.64 | |
| 55 R | 2436.00 | 9991 | 17.9 | 2.66 | 2.65 | |
| 57 R | 2436.20 | 10614 | 20.7 | 2.65 | 2.64 | |
| 59 R | 2436.34 | 8170 | 17.9 | 2.65 | 2.65 | |
| 63 V | 2436.45 | 5237 | 19.8 | 2.65 | 2.64 | Vertical |
| 64 R | 2436.60 | 5925 | 19.5 | 2.65 | 2.66 | |
| 68 R | 2436.85 | 16837 | 17.6 | 2.65 | 2.65 | |
| 70 R | 2437.00 | 15507 | 17.4 | 2.66 | 2.67 | |
| 72 R | 2437.20 | 8244 | 18.1 | 2.64 | 2.66 | Sleeved |
| 74 V | 2437.35 | 9309 | 19.0 | 2.64 | 2.64 | Vertical |
| 75 R | 2437.40 | 1908 | 17.1 | 2.64 | 2.65 | |
| 77 R | 2437.60 | 13362 | 19.1 | 2.65 | 2.64 | |
| 79 R | 2437.80 | 17205 | 19.3 | 2.65 | 2.64 | |
| 81 R | 2438.00 | 9120 | 18.6 | 2.65 | 2.63 | |
| 83 R | 2438.20 | 4771 | 21.8 | 2.65 | 2.63 | |
| 85 R | 2438.40 | 9593 | 18.5 | 2.65 | 2.64 | |
| 87 R | 2438.45 | 5424 | 18.3 | 2.65 | 2.64 | Slv-Vert |
| 88 R | 2438.60 | 3007 | 17.3 | 2.64 | 2.63 | |
| 90 R | 2438.80 | 5099 | 21.7 | 2.64 | 2.64 | |
| 92 R | 2439.00 | 4599 | 21.0 | 2.64 | 2.64 | |
| 94 R | 2439.20 | 11906 | 19.6 | 2.65 | 2.62 | |
| 96 R | 2439.40 | 3496 | 21.6 | 2.65 | 2.64 | |
| 98 R | 2439.45 | 3968 | 21.1 | 2.65 | 2.64 | |
| 99 R | 2439.60 | 1280 | 20.6 | 2.64 | 2.64 | |
| 01 R | 2439.80 | 1211 | 13.7 | 2.64 | 2.62 | |
| 03 R | 2440.00 | 5084 | 18.9 | 2.64 | 2.64 | |
| 05 R 05 R | 2440.18 | 5198 | 18.2 | 2.64 | 2.65 | |
| 07 R | 2440.18 | 973 | 14.9 | 2.65 | 2.66 | |
| 09 V | 2440.40 2440.45 | 2749 | 17.5 | 2.64 | 2.66 | Vertical |

Company ESSO AUSTRALIA LTD. Well HALIBUT No.2
 Core Interval
 Core 1: 2350.00-2356.60m

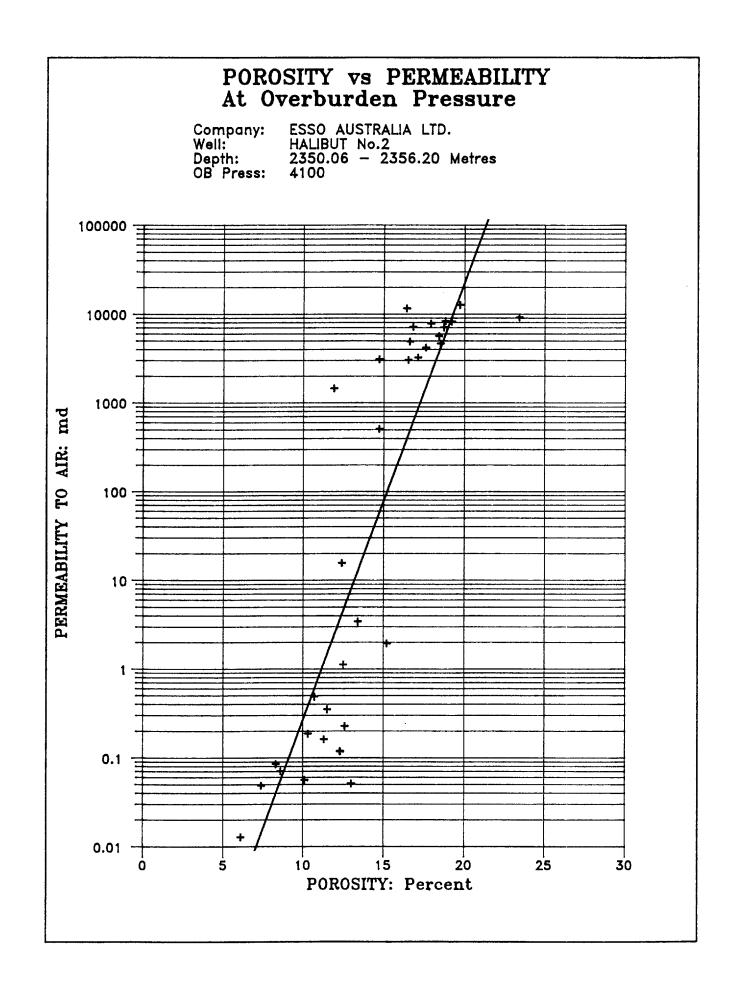
 Core Interval
 Core 2: 2410.00-2428.50m

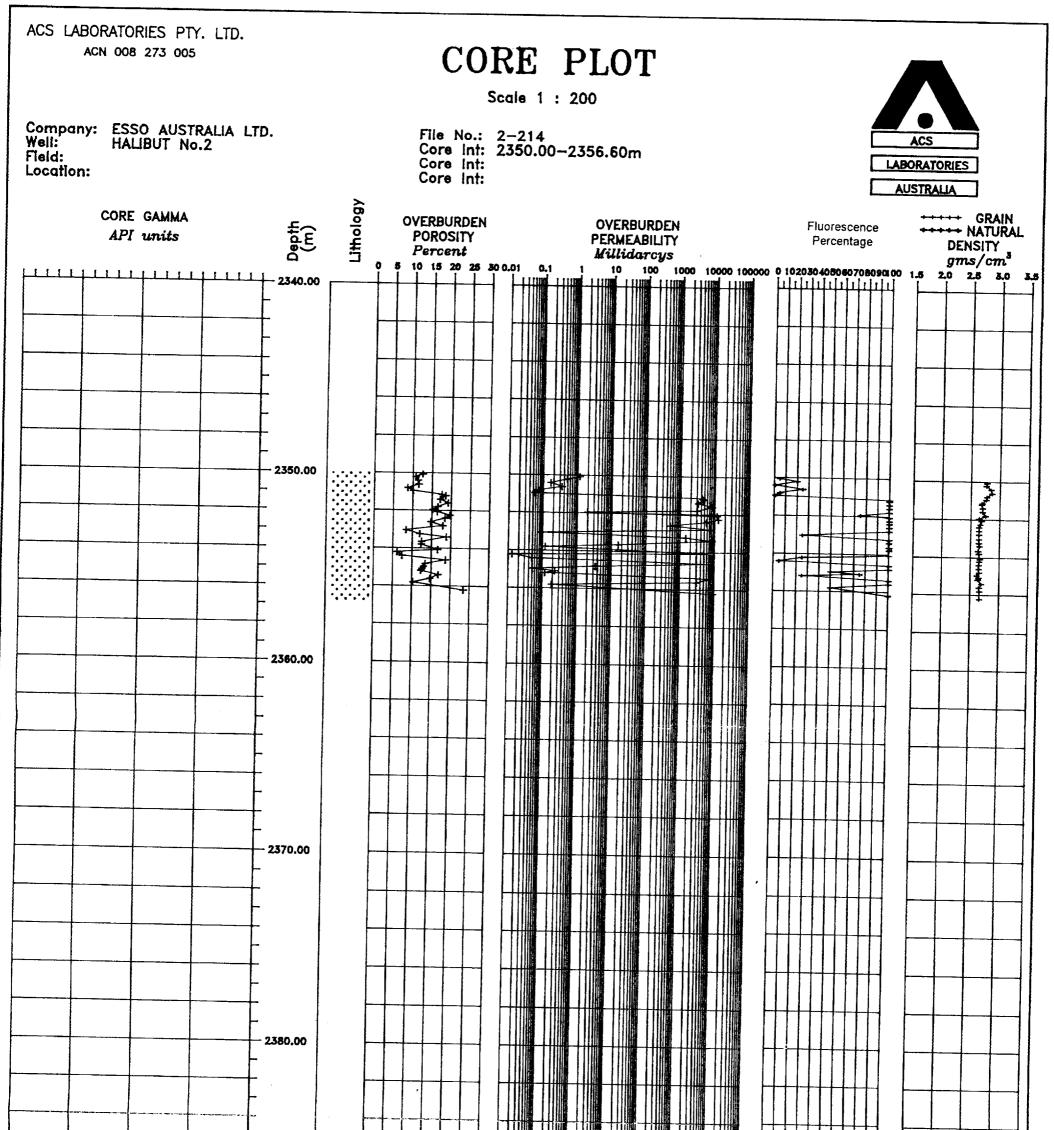
 Core Interval
 Core 3: 2428.50-2447.00m

Overburden Pressure

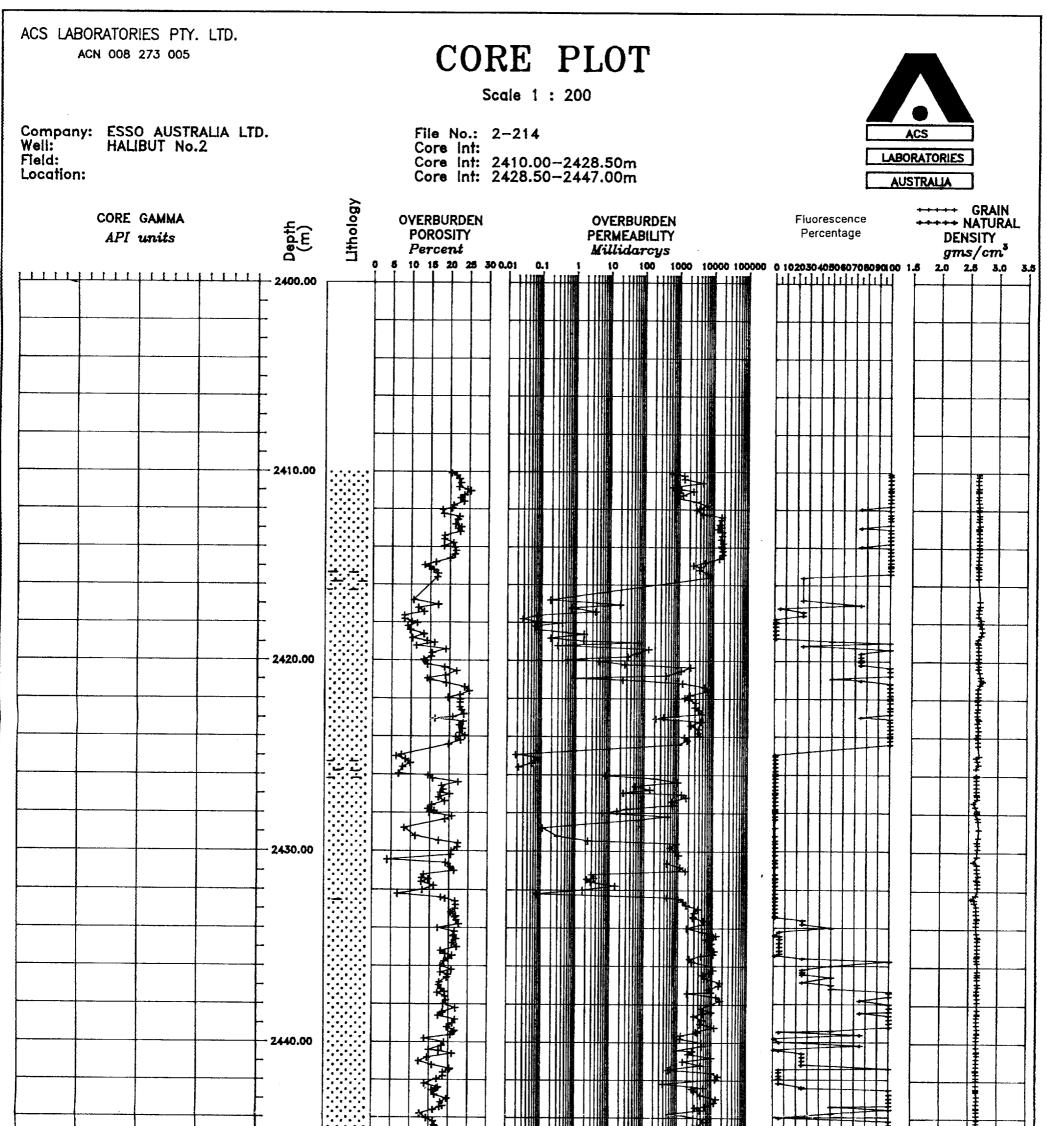
| Sample | | Permeability | | Grain I | Density | |
|--------|-----------------|----------------|-----------|----------------------|----------------------|----------|
| Number | Depth | to Air | Porosity | Calculated | Absolute | Remarks |
| | (meters) | (milliDarcy's) | (percent) | (g/cm ³) | (g/cm ³) | |
| 510 R | 2440.60 | 2096 | 20.9 | 2.65 | 2.63 | |
| 512 R | 244 0.80 | 9841 | 14.5 | 2.64 | 2.64 | |
| 514 R | 2441.00 | 1455 | 12.3 | 2.64 | 2.63 | |
| 516 R | 2441.20 | 4786 | 15.7 | 2.64 | 2.64 | |
| 518 R | 2441.40 | 671 | 20.4 | 2.63 | 2.64 | |
| 520 V | 2441.45 | 558 | 20.2 | 2.63 | 2.63 | Vertical |
| 522 R | 2441.60 | 9998 | 18.6 | 2.64 | 2.64 | |
| 523 R | 2441.80 | 15082 | 18.6 | 2.64 | 2.63 | |
| 525 R | 2441.95 | 12998 | 17.0 | 2.64 | 2.64 | |
| 527 R | 2442.20 | 394 | 13.8 | 2.64 | 2.63 | |
| 529 R | 2442.40 | 5896 | 17.4 | 2.64 | 2.65 | |
| 531 V | 2442.45 | 2711 | 16.9 | 2.64 | 2.63 | Vertical |
| 532 R | 2442.55 | 3111 | 15.7 | 2.64 | 2.62 | |
| 536 R | 2442.80 | 4787 | 16.4 | 2.65 | 2.65 | |
| 538 R | 2443.00 | 13347 | 19.6 | 2.65 | 2.65 | |
| 540 R | 2443.20 | 11865 | 18.0 | 2.64 | 2.65 | |
| 542 R | 2443.40 | 6402 | 18.5 | 2.64 | 2.63 | |
| 544 V | 2443.45 | 3310 | 17.8 | 2.64 | 2.64 | Vertical |
| 545 R | 2443.60 | 4589 | 16.0 | 2.63 | 2.63 | |
| 547 R | 2443.80 | 594 | 12.6 | 2.64 | 2.65 | |
| 549 R | 2444.03 | 4952 | 14.3 | 2.65 | 2.65 | |
| 551 R | 2444.20 | 5959 | 16.1 | 2.64 | 2.65 | |
| 553 R | 2444.40 | 3904 | 16.3 | 2.64 | 2.64 | |
| 555 V | 2444.45 | 2986 | 16.5 | 2.64 | 2.65 | Vertical |
| 556 R | 2444.60 | 6681 | 16.8 | 2.65 | 2.64 | |
| 558 R | 2444.80 | 10064 | 20.9 | 2.64 | 2.63 | |
| 560 R | 2445.00 | 127 | 14.2 | 2.65 | 2.65 | |
| 562 R | 2445.20 | 0.14 | 9.4 | 2.62 | 2.62 | |
| 564 R | 2445.40 | 6.20 | 15.6 | 2.62 | 2.63 | |
| 566 V | 2445.45 | 3.04 | 15.1 | 2.59 | 2.62 | Vertical |
| 567 R | 2445.60 | 3.37 | 12.9 | 2.61 | 2.62 | |
| 569 R | 2445.80 | 5.72 | 15.2 | 2.63 | 2.64 | |
| 575 R | 2446.20 | 10.7 | 14.3 | 2.62 | 2.61 | |
| 577 R | 2446.40 | 0.75 | 11.2 | 2.60 | 2.60 | |
| 579 V | 2446.45 | 0.04 | 10.5 | 2.66 | 2.68 | Vertical |
| 580 R | 2446.60 | < 0.01 | 4.3 | 2.67 | 2.66 | |

POROSITY vs PERMEABILITY CROSSPLOT





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