



PE990422

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

VDME

# EXPLORATION DEPARTMENT PALYNOLOGY LABORATORY PROVISIONAL REPORT

|              |              |  |
|--------------|--------------|--|
| REPORTED TO: | D. Maughan   |  |
| PHONED TO:   |              |  |
| SEEN BY:     | A. Pertridge |  |
|              | H. Stacy     |  |

WELL: Estancia # 2  
 REPORT NO: 1  
 DATE: Nov. 15, 1978

| SAMPLE No. | DEPTH (ie. test) | RECEIVED | AGE       | ZONE            | DIVISION |
|------------|------------------|----------|-----------|-----------------|----------|
| Core 1     | 2423.8 m.        | 13-11-78 | Oligocene | P. tuberculatus |          |
| "          | 2428.7 m         | "        | "         | "               |          |
| "          | 2434.0 m         | "        | "         | "               |          |
| Core 2     | 2441.0 m         | "        | "         | "               |          |
|            |                  |          |           |                 |          |
|            |                  |          |           |                 |          |
|            |                  |          |           |                 |          |
|            |                  |          |           |                 |          |
|            |                  |          |           |                 |          |
|            |                  |          |           |                 |          |

COMMENTS: Satisfactory flora, both marine and non-marine,  
present in all four samples to confirm the P. tuberculatus zone  
of the Lake Estancia formation

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EXPLORATION DEPARTMENT PALYNOLOGY LABORATORY  
PROVISIONAL REPORT

REPORTED TO: D. MAUGHAN

PHONED TO:

SEEN BY: A. PARTRIDGE

WELL: FORTESCUE-2

REPORT NO: 2

DATE: 20 Nov. 1978

| SAMPLE No. | DEPTH (in feet) | RECEIVED | AGE          | ZONE                     | DIVISION |
|------------|-----------------|----------|--------------|--------------------------|----------|
| CORE 2     | 2444.9m         | 16/11/78 | Early Eocene | Lower <u>M. diversus</u> |          |
| CORE 3     | 2472.3m         | "        | "            | " "                      |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |
|            |                 |          |              |                          |          |

COMMENTS: No species diagnostic of the Middle  
M. diversus or younger Zones were  
seen in the preliminary examination of  
these samples.

EXPLORATION DEPARTMENT PALYNOLOGY LABORATORY  
PROVISIONAL REPORT

REPORTED TO:

PHONED TO:

SEEN BY:

|                        |  |
|------------------------|--|
| <i>D. Macgillivray</i> |  |
|                        |  |
| <i>A. Partridge</i>    |  |
| <i>H. Stacy</i>        |  |
|                        |  |

WELL: *Eocene #2*

REPORT NO: *3*

DATE: *Nov. 23, 1978*

| SAMPLE No.    | DEPTH (in feet) | RECEIVED | AGE                     | ZONE                    | DIVISION |
|---------------|-----------------|----------|-------------------------|-------------------------|----------|
| <i>SWC-18</i> | <i>2516</i>     |          | <i>Lower Eocene</i>     | <i>Lower Murchisoni</i> |          |
| <i>SWC-16</i> | <i>2546</i>     |          | <i>Undiagnosed</i>      | <i>?</i>                |          |
| <i>SWC-11</i> | <i>2575.5</i>   |          | <i>Upper Palaeocene</i> | <i>Upper L. balmeri</i> |          |
| <i>SWC-9</i>  | <i>2585.5</i>   |          | <i>Upper Palaeocene</i> | <i>Upper L. balmeri</i> |          |
|               |                 |          |                         |                         |          |
|               |                 |          |                         |                         |          |
|               |                 |          |                         |                         |          |
|               |                 |          |                         |                         |          |
|               |                 |          |                         |                         |          |
|               |                 |          |                         |                         |          |

COMMENTS: *SWC-16 (2546) almost barren of fossils, and no diagnostic forms were found.*

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EXPLORATION DEPARTMENT PALYNOLOGY LABORATORY  
PROVISIONAL REPORT

REPORTED TO:

PHONED TO:

SEEN BY:

|                   |  |
|-------------------|--|
| <i>D. Maughan</i> |  |
|                   |  |
| <i>H. Stacy</i>   |  |
|                   |  |

WELL: *Pottercove # 2*

REPORT NO: *4*

DATE: *Nov. 24, 1978*

| SAMPLE No.    | DEPTH (in feet) | RECEIVED | AGE              | ZONE                           | DIVISION |
|---------------|-----------------|----------|------------------|--------------------------------|----------|
| <i>SWC 13</i> | <i>2566.5</i>   |          | <i>Paleocene</i> | <i>Upper <u>L. balmeri</u></i> |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |
|               |                 |          |                  |                                |          |

COMMENTS: *This raises the L. balmeri limit from 2575.5 to 2566.5 and puts the contact between the Mediocrinus - L. balmeri somewhere between 2566.5 and 2576. Additional samples in this interval will be processed in the near future and, hopefully, the contact will be more <sup>exactly</sup> ~~accurately~~ delineated.*