

| | | | |
|--|---|-----------------------------|------------------------|
| WELL <u>Lakes Entrance Oil Shaft.</u> | | TYPE | BASIN <u>Gippsland</u> |
| Tenement Holder <u>Austral Oil Drilling Synd. Lakes Lakes Oil Ltd.</u> | Map Used <u>Bairnsdale 1 mile Grid.</u> | Pt. Coleraine A110 F. 31 | |
| Operator <u>Government Lakes Lakes Oil Ltd.</u> | Latitude <u>37° 52' 07" S</u> | | |
| Tenement <u>PPL 139 (Resumed 15:5:42)</u> | Longitude <u>147° 59' 56" E</u> | | |
| Elevation <u>90' asl</u> | Total Depth <u>1212.</u> | Status <u>Abandoned.</u> | |
| Spud <u>c. Feb 1942</u> <u>to Sept 1942</u> | Completed <u>Sept 30: 11:45.</u> | Abandoned | |
| Casing <u>12" circular shaft concreted to 1204' by Govt.</u> | <u>1156'</u> | | |

STRATIGRAPHY

ex Cressin I BHR Record (1947) 69.

| | | |
|-----------------------|------------------|---|
| Recent to Pleistocene | : Post-Kalimnan | 0' - 10' |
| Lower Pliocene | : Kalimnan stage | 10' - 150' |
| Upper Miocene | : Mitchellian " | 150' - 208' |
| | : Balcombian " | { 1 Bairnsdale Substage — 208' - 524' { 11 Balcomford " — 524' - 728' { 11 Longford " — 728' - 952' |
| | : Janyikian " | { 1 Micaceous marls & Sandstone — 952' - 1197' { 11 Gneissitic Sandstone — 1197' - 1212'. |

TD. 1212 ft.



oil in 3 thin zones sep by impermeable s.s. oil only shown in top of portion of glauconitic ss.

FORMATION TESTS

LOG SUMMARY AND INTERPRETATION

Condition when abandoned by Government.

5 Horizontal Rammed Wells drilled

| | | | | |
|------------------|----------|---------|---------------|-----|
| No 1 in NW Drive | for 5'6" | NW. | from distance | 9' |
| No 2 " NW " | for 32' | from | | 15' |
| No 3 " SW " | for 38' | from | | - |
| No 4 " NW " | for 35' | NE from | | - |
| No 5 " NW " | for 25' | NE from | | 7' |

P.T.O. for Subsequent
Lakes Oil Ltd's Works.

Lakes Entrance Oil Shaft.

CORES

| No. | Interval | Rec. | No. | Interval | Rec. | No. | Interval | Rec. | No. | Interval | Rec. |
|-----|----------|------|-----|----------|------|-----|----------|------|-----|----------|------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

CHEMICAL ANALYSES (Oil, water, gas.)

water Analysis Ni 4 49 parts/100,000 H_2CO_3 Nil $NaHCO_3$ 32 Na_2SO_4 22 $CaHCO_3$ 9 Mg 3)25
 $Fe(HCO_3)_2$ Nil Total Solids = 137 parts/100,000.

gas Analysis CO_2 0.20% CH_4 98.80% O_2 0.20% N_2 0.80%

(Pilot Bone gave bit at 1216'9" at average a little over 4 gals/day)

GENERAL (Conclusion, structure, plugging, etc.)

At 666' Water pressure 270 psi. broke through 16' of ground + flooded shaft.

Horizontal drilling from shaft - carried out.

Total 6890' Logcat-1003'.

253' mark - water was baled at 500 galls/hr.
 no new water after 200'

535' - pyrite sand -

Temperature gradient = 3F per 100'

Laker Oil Ltd's Work.
 Horizontal Drilling - 12 (6 at 18° Dip, 6 Steep)
 Vertical Drilling - 1 (near Vertically).