

ZONE E

Three (3) sands are present in Zone E in Pelican 5. In Pelican 1 and 4 the lower and middle sands can be correlated with Pelican 5 but the best quality upper sand is absent in wells 1 and 4.

The upper sand in Pelican 5 from 2785-2790m produced the best test results. The zone 2786-2790m on DST 6 produced a maximum rate of 5.5 MMCFD, 400 BCPD and 675 BWPD on a 1" choke with 520 psi FTP. The specific gravity of the gas was 0.84 and it contained 9% CO₂. From test data a Kh of 68.3md-ft (K = 4.6md, h = 15) was calculated with a skin of 3.14. SAGASCO Resources re-analysed this test and confirmed the Amoco results (see testing section).

Three RFT samples were taken in this sand. No. 1 at 2788.3 m recovered 9500cc of mud filtrate with a trace of condensate. No. 4 at 2788.2m recovered 38.4 cubic feet of gas 400cc of condensate and 5000cc of mud filtrate. Sample No. 5 at 2788.24m also recovered 9500cc of mud filtrate.

RFT pt. 81 @ 2787 m	4181.1 psi HP
RFT pt. 82 @ 2789.5 m	4215 psi HP
RFT pt. 118 @ 2788.2 m	4224 psi (sample)

Log analysis over this interval calculated porosities in the 14-20% range, average 17%. With an Rw equivalent to 5200 ppm, the figure supposedly obtained from water recoveries on DST 5 and 5A, Sw's ranged from 63-90%. Using an Rw equivalent to 10400 ppm produces slightly more optimistic Sw values ranging from 53-69%.

The middle sand in Pelican 5 from 2798-2805 m appears very ratty.

Core 1 from 2790.5 m to 2808.5 m was cut over this middle sand with 100% recovery. The core exhibited no natural fluorescence and only pale to moderately intense cuts and crush cuts. However, core analysis did show traces of residual oil, max 2.9%. Conventional core analysis data obtained from this core is shown in Table 2.

Log derived porosities over the intervals shown in Table 1 are not in good agreement with the core data. Allowing for a depth shift which the Wiltshire log data seems to have had made on it, log porosities are up to 6% lower. Calculated Sw's using an Rw equivalent to 5200 ppm fall in the range 80-100%. With a lower Rw the equivalent to 10400 ppm NaCl this range is marginally more optimistic at 70-100%.

Optical core petrology on two samples from the core at 2790.5 m and 2791.3 m show it to be tight with authigenic kaolinite and carbonate. Also soft lithic fragments were observed which leads to the conclusion that the sandstone is of rather poor reservoir quality. No tests were conducted over the middle sand in Zone E in Pelican 5.