

AMOCO AUSTRALIA PETROLEUM COMPANY  
PELICAN NO. 5

DISCUSSION BY INTERVAL

12<sup>1</sup>/<sub>4</sub>" HOLE INTERVAL (Cont'd)

Mud Properties (Cont'd)

All other mud properties were kept within set parameters and, apart from the carbonate problem, the mud presented no problems in drilling and maintaining the hole in good condition.

A comparison of recommended mud properties versus actual mud properties is given below:

<u>Mud Properties</u>	<u>Programmed</u>	<u>Actual</u>
Density (ppg)	8.9 - 17.0	9.1 - 9.9
Funnel Viscosity (sec/qt)	40 - 50	40 - 60
Yield Point (lbs/100 sq. ft)	10 - 25	10 - 18
10 Sec Gel (lbs/100 sq. ft)	4 - 15	4 (av.)
10 Min Gel (lbs/100 sq. ft)	8 - 30	15 (av.)
API Fluid Loss (mls/30 min.)	< 10	5- 6
HP-HT " " ( " " )	20 - 22	< 20
MBT (Reactive clay) (ppb)	20 - 30	20 - 27
pH	11.0 - 12.0	11.3 - 12.0

Hole Conditions

The only problem experienced over this interval was the reaming required from 6389 - 9149 ft (1947 - 2789 m) after Core No. 1 and from 7489 - 9502 ft (2283 - 2896 m) after Core No. 2. As previously mentioned this was attributed to bridges associated with coal seams and swelling shales, and was cured by raising the mud weight to 9.9 ppg.

After an extensive set of logs at 9850 ft (3002 m) requiring 2.5 days, a wiper trip was made and showed the hole to be in good condition and without any fill. The hole was seen to be nearly in gauge.