

AMOCO AUSTRALIA PETROLEUM COMPANY
KOORKAH NO. 1

DISCUSSION BY INTERVAL

12¹/₄" HOLE (Cont'd)

General (Cont'd)

At 8494 ft, another bit trip was made and this time, the hole showed neither drag nor fill. Drilling continued through Sandstone and Siltstone without any problems. Additions of premixed mud and Lime were continued until the hole was drilled to T.D. at 10331 ft. A wiper trip was made and after the hole was shown to be in good condition, electric logs were run. The hole was then plugged and abandoned.

Solids Control Equipment

Throughout the 12¹/₄" section, the solids control equipment was run as a closed loop, as in the 17¹/₂" section. This proved extremely effective and, upon comparison with Tilana No. 1, showed a saving of 6675 bbls of drillwater over the same section. Drill solids were in the range of 35-45 ppb and a maximum of 52 ppb was achieved through the use of this system. The importance of this system cannot be overemphasized. Not only were the drilled solids minimised, but any problems that were experienced through lack of drillwater on other wells in the area, were eliminated due to the efficient processing of all effluent by this closed system.

Mud Properties

While drilling, mud weights were maintained at a minimum through the use of the closed loop solids control system and minimal dilution with premixed mud.

Despite the maintenance of a minimum mud weight, the fine drill solids content rose slowly and was evident in the increase of the Plastic Viscosity. This PV however only reached a maximum of 20 and was never the cause of any problems. The yield point was maintained at 10-15 and this ensured that the hole was adequately cleaned.