

S U M M A R Y

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Erdunda No. 1 Well was drilled by Exoil (N.S.W.) Pty. Ltd. and partners as a stratigraphic and structural test of a seismically defined anticline near the southern margin of the Amadeus Basin. Drilling was carried out by Oil Drilling and Exploration Ltd. with a T-32 rig using air and mist as circulating fluids. The well was spudded on 20th June, 1965 and abandoned as a dry hole at 5,463 feet on 21st July, 1965.

The section penetrated beneath surface alluvium comprised 115 feet of Devonian Pertnjara, 750 feet of Silurian Upper Mereenie, 348 feet of Ordovician Stairway, 822 feet of Cambrian Cleland Sandstone and a total of 3398 feet of Upper Proterozoic Pertatataka, Areyonga and Bitter Springs. Considerable erosion at the tops of the Pertatataka and Cleland and a lower Ordovician hiatus are indicated from a comparison of seismic with regional and well stratigraphy.

The only hydrocarbons encountered in the well were slight traces of cuttings gas and residual hydrocarbon.

RESUME OF DRILLING OPERATIONS

Air and mist drilled 12 $\frac{1}{4}$ " hole to 106 feet. Opened 12 $\frac{1}{4}$ " hole to 20" to 101 feet. Set 16" pipe to 86 feet and cemented to surface. Dropped 4 $\frac{1}{2}$ " thread protector down hole. Milled over fish and mist drilled ahead 13 $\frac{3}{4}$ " hole to 961 feet. Ran Welex Induction-Electric log. Ran 10 $\frac{3}{4}$ " casing to 961 feet and cemented. Mist drilled ahead 9 $\frac{7}{8}$ " hole to 1862 feet. Mist drilled ahead 8 $\frac{3}{4}$ " hole to 1959 feet. Mist drilled ahead 7 $\frac{7}{8}$ " hole to 5437 feet. Mudded up hole. Ran Welex Guard, Acoustic Gamma-Ray and Forxo-Caliper logs but last was a misrun. Namco attempted to run well velocity survey but well geophone inoperative. Cut 7 $\frac{7}{8}$ " bottom hole core with mud to 5361 feet. Reran velocity survey successfully. Reran Forxo-Caliper Log. Plugged and abandoned well.