

SECTION VII

074148

TELEDYNE EXPLORATION COMPANY
P.O. BOX 36269
5825 CHIMNEY ROCK ROAD
HOUSTON, TEXAS 77036
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October 15, 1969

Magellan Petroleum Australia Limited
G. P. O. Box 455
Brisbane, Australia, 4001

Re: Data Processing Report
New South Wales Permit EPP (NSW) 1
Line M32S, Shot Points 1-535

Gentlemen:

The SDS 1010 digitally recorded field data were shipped by air freight to Teledyne Exploration Company at Houston, Texas, for complete processing thereof. An IBM 360 Model 44 was used in the data reduction, with field recording at 2 ms. and processing at 4 ms. sampling rates respectively.

Diagnostic edits were made of all field reels upon receipt. The program is a multi function package which includes routines for parity dropout and skew error recovery, as well as a listing of file numbers, constants, length of recordings, etc. This information was used as a check against the field operator's report of reel data content and in programming the data for demultiplexing. A 4 over 0 vertical composite, full dynamic range signal recovery and amplitude normalization were accomplished during the subsequent demult operation.

Autovels spaced at three mile intervals, constant velocity stacks, 100% continuous coverage profiles, and other available velocity control were all utilized in evaluating the applied velocities for proper normal moveout and stacking effects. A copy of the velocities used on the final presentation is attached to this report, however, the curve below the shallow reflector is considered speculative due to possible lack of section and/or no data. A study at SP486 suggests the refraction velocity of the shallow marker at that particular location to approximate 16,600'/sec. In addition, experimental curves were tabulated in which, with a fix on the early event,