

VELOCITY SURVEY

ESSO BASS # 3

by

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A. INTRODUCTION

Esso Australia contracted Western Geophysical Co. to perform the velocity survey. Under the contract, Western agreed to furnish the following:

(1) Instruments

- a. SSC Model GCE101 Pressure Sensitive Well Geophones
- b. Twelve SIE GA-11 Amplifiers, Input Switching and Power Supply
- c. Western 30 Channel Camera
- d. Three 12 volt Batteries and Charger
- e. Portable Developing System
- f. Two 300 volt Blasters
- g. Three Kaar TR 327 CB Radios
- h. Two RC-5 Remote Control Units for Shooters Radio
- i. Two TA-12 Break amplifier units
- j. Adequate spare parts

(2) Personnel

One Marine Shooter, G. Jones and one Instrument Operator, A. Paar.

(3) One Licenced Shooting Boat

All equipment and personnel were assembled on March 26, 1967 and the survey was made on March 27.

B. SURVEY PROCEDURES

Weather was very good during the survey and no operational difficulties were encountered.

(1) Shot Positioning

The orientation of Glomar III was E-W during the survey. Buoys were positioned at 500 and 1000 feet on the north side of the boat and at 1000 feet on the south side. The position of shot point D was estimated by the shooter. Exact shot positions were obtained from water arrivals at the well, measured by a geophone in the moonpool.

(2) Shot Size

All shots were 25 lbs.

(3) Well Geophone Positioning

All depth measurements were made using the Schlumberger depth indicator. To minimize rig noise the marine riser was disconnected from the derrick floor and lowered to the casing top. The cable was clamped with a T-bar device which rested on the casing top at each geophone position.