

ONE WAY TIME BELOW SEA LEVEL - SECONDS

TWO WAY TIME BELOW SEA LEVEL - SECONDS

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

COBIA - 1



TIME DEPTH CURVE

DATUM: MEAN SEA LEVEL
AUTHOR: M. A. HENSCHKE
DRAFTED BY: R. WILSON

CO ORDINATES:
LAT. 38° 27' 26.75" S
LONG. 148° 17' 01.27" E
X 612 003
Y 5742 635

LEGEND

- Check shots.
- Points interpolated from Sonic Log.

REVISED 24 Nov. 1972

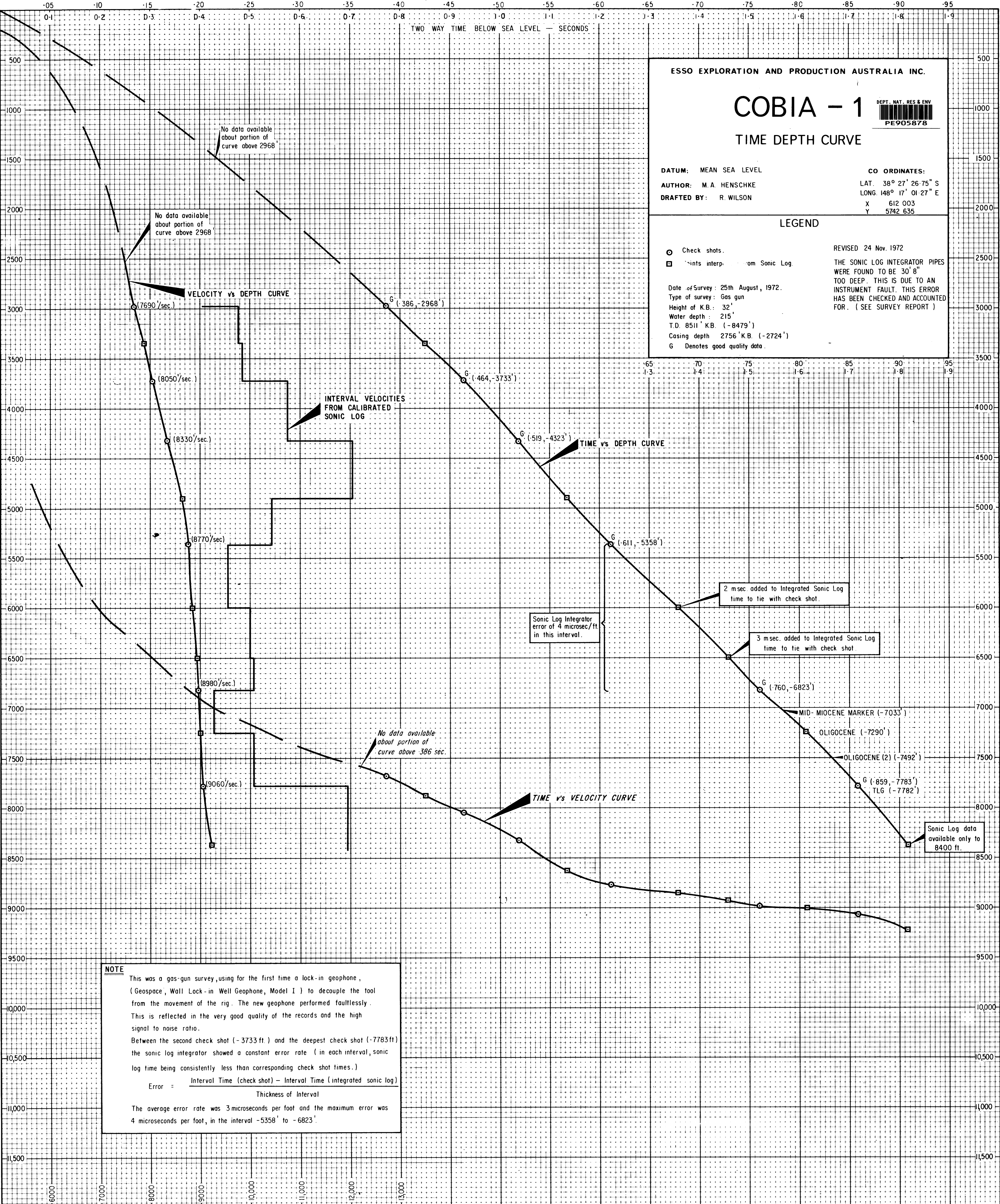
Date of Survey: 25th August, 1972.
Type of survey: Gas gun
Height of K.B.: 32'
Water depth: 215'
T.D. 8511 K.B. (-8479')
Casing depth 2756' K.B. (-2724')

THE SONIC LOG INTEGRATOR PIPES WERE FOUND TO BE 30" 8" TOO DEEP. THIS IS DUE TO AN INSTRUMENT FAULT. THIS ERROR HAS BEEN CHECKED AND ACCOUNTED FOR. (SEE SURVEY REPORT)

G Denotes good quality data.

AVERAGE VELOCITY - FEET PER SECOND and DEPTH IN FEET BELOW SEA LEVEL

AVERAGE VELOCITY - FEET PER SECOND and DEPTH IN FEET BELOW SEA LEVEL



NOTE

This was a gas-gun survey, using for the first time a lock-in geophone, (Geospace, Wall Lock-in Well Geophone, Model I) to decouple the tool from the movement of the rig. The new geophone performed faultlessly. This is reflected in the very good quality of the records and the high signal to noise ratio.

Between the second check shot (-3733 ft) and the deepest check shot (-7783 ft) the sonic log integrator showed a constant error rate (in each interval, sonic log time being consistently less than corresponding check shot times.)

$$\text{Error} = \frac{\text{Interval Time (check shot)} - \text{Interval Time (integrated sonic log)}}{\text{Thickness of Interval}}$$

The average error rate was 3 microseconds per foot and the maximum error was 4 microseconds per foot, in the interval -5358' to -6823'.

AVERAGE AND INTERVAL VELOCITY - FEET PER SECOND