



- Dwd = Kelly - datum elevation
- R = Record number
- Ew = Elevation of sea water above M.S.L.
- Dgm = Depth below kelly bushing
- Tas = Time to "Moonpool" hydrophone
- Tc = Time correction
- Te = $(\frac{1}{V_w} - \frac{1}{V_0}) \times \text{distance shot to sea floor}$
- Ds = Depth of shot/depth of gas gun
- Δe = Kelly - sea level elevation = Dwd - Ew
- Dws = Ds + Δe
- Δsd = Dws - Dwd
- Dgs = Dgm - Dws
- H = Horizontal distance shotpoint to well
- Tan-l = H/Dgs
- T = Arrival time from time break to wellphone
- Tgs = T Cos-l
- Q = Record quality
- Tgd = Tgs + Δsd/Vd + Tc or Te
(Vertical travel time from datum to well phone)
- Dgd = Dgm - Dwd
(Vertical distance datum plane to wellphone)
- Vl = Interval velocity = Δ Dgd / Δ Tgd
- VA = Average velocity = Dgd/Tgd
- Vd = Datum reduction velocity

COMPUTATION DIAGRAM

WELL VELOCITY SURVEY
HEMATITE PETROLEUM Pty.Ltd.

SNAIL No.

by

AUSTRAL UNITED GEOPHYSICAL P/L.

Party 86

7 December 1972.

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