KB

Dwd · Δe

Sea level

Dws

Δsd · Ds

Ref phone

Gas gun

Dgm

Sea bed

Dgs

Seismometer
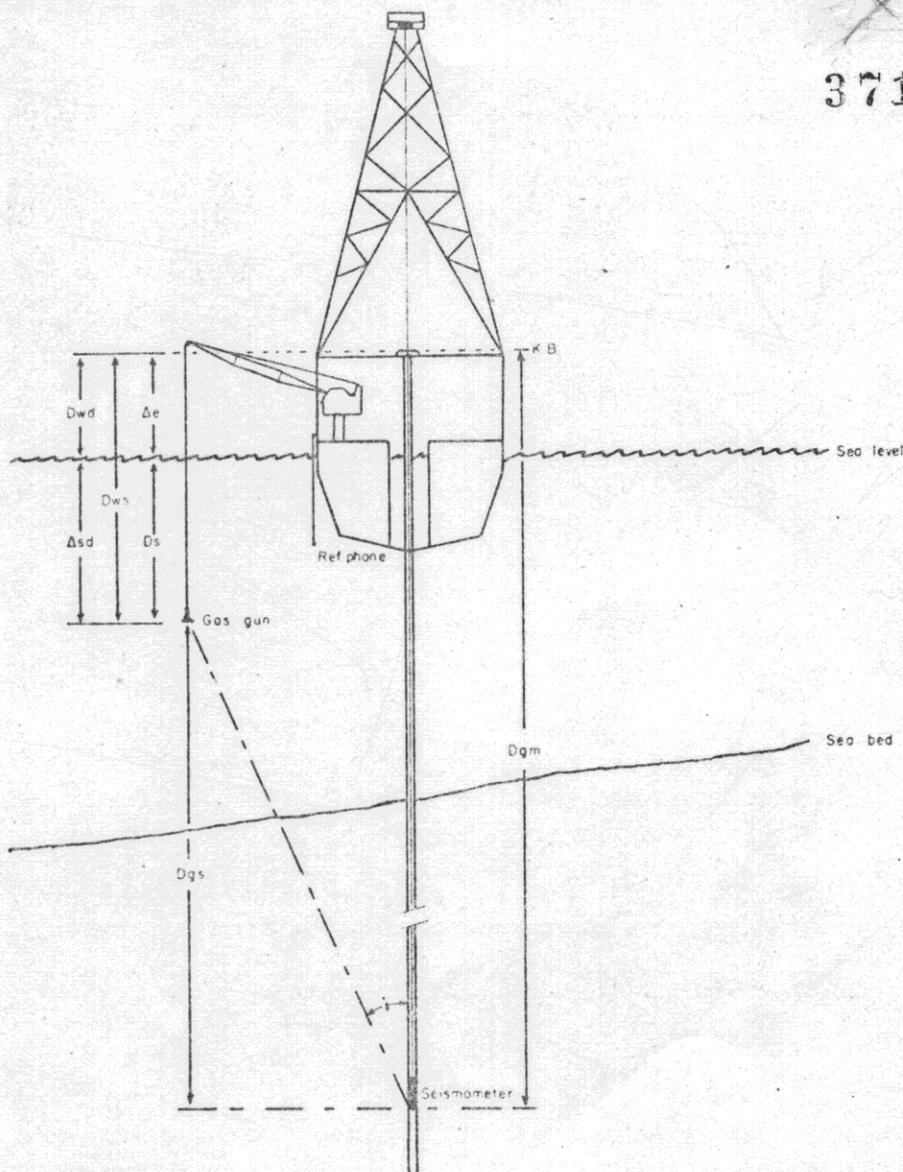
Dwd = Kelly – datum elevation
R = Record number
Ew = Elevation of sea level above M.S.L.
Dgm = Depth below kelly bushing
Tc = Time correction
Ds = Depth of shot (gas gun)
Δe = Kelly – sea level elevation
Dws = Ds + Δe
Δsd = Dws – Dwd
Dgs = Dgm – Dws
H = Gas gun offset from well
Tan-i = H / Dgs
T = Well seismometer time from time break
Tgs = T Cos-i
Q = Record quality
Tgd = Tgs + Δsd / Vd + Tc = (vertical travel time from datum
        to well seismometer)
Dgd = Dgm – Dwd (vertical distance datum to seismometer)
VI = Δ Dgd/ Δ Tgd = (Interval Velocity)
VΔ = Dgd / Tgd = (Average Velocity)
Vd = Datum reduction velocity

5 cm

COMPUTATION DIAGRAM

HEMATITE PETROLEUM PtyLtd.

NANGKERO Nº1

by

AUSTRAL UNITED GEOPHYSICAL

PARTY 86   13 MAY 1974

(FIG 3)