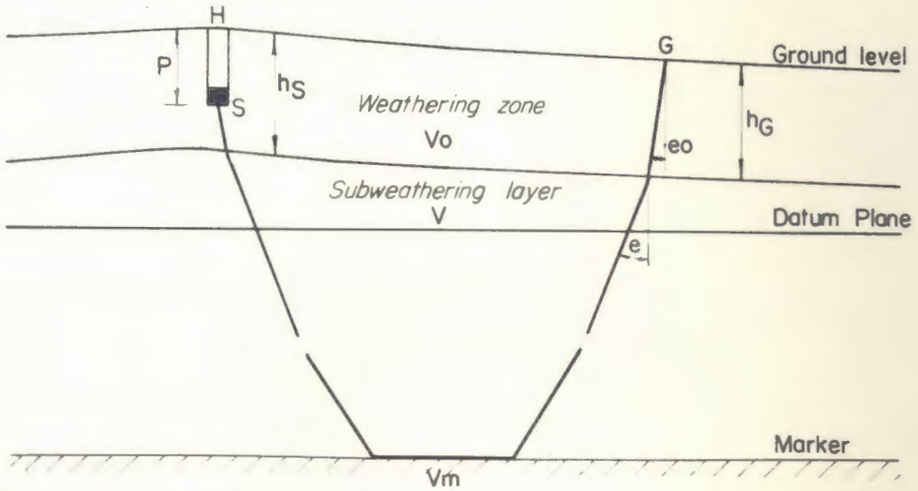
FIG. 7.

REFRACTION CORRECTIONS



Vo = Weathering zone velocity

V = Elevation correction velocity

Vm = Marker velocity

$\sin e = \frac{V}{Vm}$ $\sin eo = \frac{Vo}{Vm}$

D.P. = Elevation Datum Plane

SHOT POINT CORRECTION

$Z_{S.P.}$ = S.P. Elevation

P = Maximum depth of the hole

h_S = Depth of the weathering zone beneath the S.P.

C_{SP} = S.P. elevation correction $= \frac{D.P.-(Z_{SP}-P)}{V/\cos e}$

CH = Horizontal correction if any

C_{WZ} = Weathering correction to the S.P. $= (h_S - P)\left(\frac{1}{V/\cos e} - \frac{1}{Vo/\cos eo}\right)$

$\Sigma c = C_{SP} + C_{WZ} + CT + CH$

GEOPHONE CORRECTION

Z_G = Geophone elevatton

h_G = Depth of the weathering zone beneath the geophone

E_C = Elevation correction $= \frac{D.P. - Z_G}{V/\cos e}$

C_{WZ} = Weathering zone correction to the geophone $= h_G\left(\frac{1}{V/\cos e} - \frac{1}{Vo/\cos eo}\right)$

STATIC CORRECTION

$\Sigma C = \Sigma c + C_{WZ} + Ec$

D.P.:	Vm:	V/cose:	Vertical Velocities through WZ:	under WZ:	CT	C_{sp}	CH	C_{wz}	Σ_c		INDEX
	CORRECTIONS					SHOT POINT					

Computer: Checked: Observer:

EM W-S

N	X	Z	EC	CW_z		$\Sigma C = EC + CW_z + \Sigma_c$	$\frac{X}{V}$	$\Sigma C - \frac{X}{V}$	Total Correction	CPO Corrections	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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