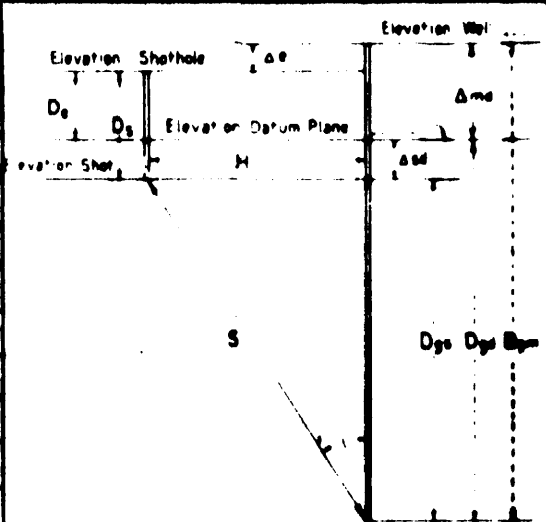


Record Number	Shot Hole Number	Dgm	Ds	tus	tr	T			Dgs	H	Tgs	$\Delta s_d$	$\frac{\Delta s_d}{V}$	Tgd	Tgr Average	Dgd
						Reading	Polarity	Grade								
23	M.P.1	500	3			.093	N	G	471	264	.081	.083	+2.0	(.0)	+28	
24	"	500	3			.097	R	P	471	"	.085	.083	-2.0			
22	"	1200	3			.203	N	G	1171	"	.198	.083	.115		632	
1	"	1240	1			.197	R	F	1213	"	.193	.083	.110		672	
2	"	1650	2			.246	N	G	1622	"	.243	.083	.160		1122	
3	"	2400	2			.342	N	G	2372	"	.340	.083	.257	(.257)	1872	
4	"	2400	2			.341	N	G	2372	"	.339	.083	.256			
5	"	2670	2			.371	N	G	2642	"	.369	.083	.286		2142	
6	"	3500	2			.466	N	G	3472	"	.465	.083	.382	(.382)	2972	
21	"	3500	3			.465	N	G	3471	"	.464	.083	.381			
7	"	4000	2			.518	N	G	3972	"	.517	.083	.434		3472	
19	"	4700	3			.580	N	G	4671	"	.579	.083	.496		4172	
20	"	4700	3			.579	N	G	4671	"	.578	.083	.495	(.496)		
8	"	4700	2			.581	N	G	4672	"	.580	.083	.497			
9	"	5020	2			.605	N	G	4992	"	.604	.083	.521		4492	
10	"	5700	2			.654	N	G	5672	"	.653	.083	.571		5172	
18	"	6720	3			.731	N	G	6691	"	.730	.083	.647	(.648)	6192	
11	"	6720	2			.733	N	G	6692	"	.732	.083	.649			
13	"	7700	3			.800	N	G	7671	"	.799	.083	.716		7172	
16	SP.1	8300	100			.826	N	G	8222	510	.824	.076	.748		7772	
17	SP.2	8300	100			.821	N	G	8168	615	.819	.065	.754	(.755)		
14	MRI	8300	3			.848	N	G	8271	264	.848	.083	.765			
15	MRI	8874	3			.885	N	G	8845	264	.885	.083	.802		8346	



- Dgm = Geophone depth measured from well elevation
- Dgs = Geophone depth measured from shot elevation
- Dgd = Geophone depth measured from datum elevation
- Ds = Depth of shot
- De = Shot hole elevation to datum plane
- H = Horizontal distance from well to shot point
- S = Straight line travel path from shot to well geophone
- tus = Uphole time at shot point
- tr = Observed time from shot point to well geophone
- t = Observed time to reference geophone
- $\Delta e$  = Difference in elevation between well and shot point
- $\Delta s_d$  = Difference in elevation between shot and datum plane
- $\Delta d$  =  $D_s - D_e$
- Dgs =  $D_{gm} - D_s + \Delta e$ ;  $\tan \theta = \frac{H}{D_{gs}}$
- Tgs =  $\cos \theta \cdot T$  = vert travel time from shot elev. to geophone
- Tgd =  $T_{gs} + \frac{\Delta s_d}{V}$  = vert travel time from datum plane to geophone
- Dgd =  $D_{gm} - \Delta d$

DEPT. NAT. RES & ENV  
  
 PE907116

Casing Record

Well Velocity Calculation Form  
**ROSS CREEK-1**  
 TABLE - 7  
 Drawing no 8096