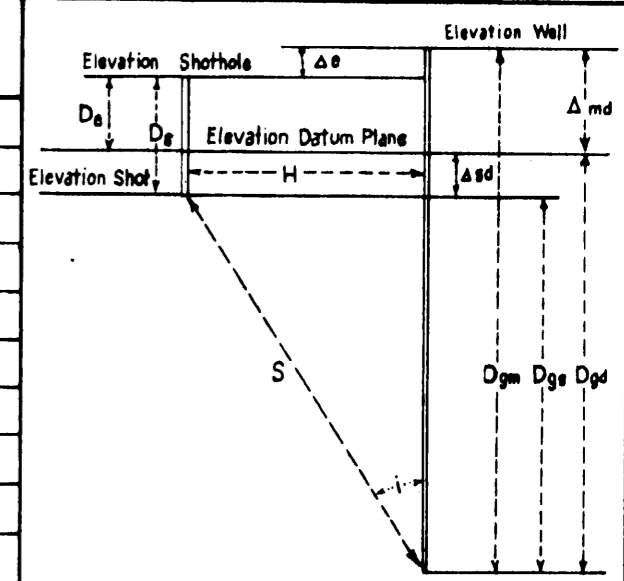



Shothole information, Elevation, Distance & Direction from Well									Company				Well				Rotary		LOCATION									
1 A & B		500' East 212.2'							Frome-Broken Hill Co.				Port Campbell No. 3				Table Elevation: +210'		Total Depth: 5530'		Coordinates		Section, Township, Range			County		Area or Field
2 A,B,C,D,E		500' West 162.3'																			Heytesbury Shire		Victoria, Australia					
Record Number	Shothole Number	Dgm	Ds	tus	tr	T			Dgs	H	tan i	cos i	Tgs	Δsd	Δsd/V	Tgd	Tgd Average	Dgd	ΔDgd	ΔTgd	Vi Interval Velocity	Va Average Velocity	Elevation Well					
						Reading	Polarity	Grade															Elevation Shot	Elevation Datum Plane				
24	2	500	75	.018	.077	.100	+	G	377	500	1.3263	.6021	.0602	123	.0176	.0778	.0778	500	500	.0838	5967	6427						
2	1	1000	72	.019	.077	.172	+	F	930	"	.5376	.8808	.1515	70	.010	.1615	.1616	1000				6188						
23	2	1000	75	.017	.074	.166	+	F	877	"	.5701	.8688	.1442	123	.0176	.1618												
3	1	1538	72	.020	.077	.244	+	F	1468	"	.3406	.9466	.2310	70	.010	.2410	.2418	1538	538	.0802	6708							
22	2	1538	81	.021	.077	.238	+	F	1409	"	.3549	.9424	.2243	129	.0184	.2427												
21	2	2000	83	.021	.076	.289	+	F	1869	"	.2675	.9660	.2792	131	.0187	.2979	.2979	2000	462	.0561	8235							
20	2	2500	82	.018	.076	.345	+	F	2370	"	.2110	.9785	.3376	130	.0186	.3562	.3562	2500	500	.0583	8576							
4	1	3000	72	.019	.077	.408	+	G	2930	"	.1706	.9858	.4022	70	.010	.4122	.4131	3000	500	.0569	8787							
19	2	3000	72	.018	.076	.403	+	G	2880	"	.1736	.9853	.3971	120	.0170	.4141												
18	2	3500	80	.020	.076	.455	+	G	3372	"	.1483	.9892	.4501	128	.0183	.4684	.4684	3500	500	.0553	9041							
5	1	3913	72	.019	.078	.507	+	G	3843	"	.1301	.9916	.5027	70	.010	.5127	.5144	3913	413	.0470	8787							
17	2	3913	80	.019	.074	.504	+	F	3785	"	.1321	.9914	.4997	128	.0183	.5180												
6	1	4230	72	.019	.078	.539	+	F	4160	"	.1202	.9928	.5351	70	.010	.5451	.5473	4230	317	.0319	9937							
16	2	4230	80	.016	.074	.535	+	G	4102	"	.1219	.9927	.5311	128	.0183	.5494												
7	1	4608	70	.019	.077	.576	+	G	4540	"	.1101	.9940	.5725	68	.0097	.5822	.5830	4608	378	.0357	10588							
14	2	4608	80	.019	.074	.569	+	G	4480	"	.1116	.9938	.5655	128	.0183	.5838												
8	1	4778	71	.019	.076	.594	+	G	4709	"	.1062	.9944	.5907	69	.0099	.6006	.6015	4778	170	.0185	9189							
13	2	4778	77	.020	.074	.588	+	G	4653	"	.1075	.9942	.5846	125	.0179	.6025												
15	2	4808	82	.018	.074	.590	+	G	4678	"	.1069	.9943	.5866	130	.0186	.6052	.6052	4808	30	.0037	8108							
12	2	5000	78	.020	.074	.610	+	G	4874	"	.1026	.9948	.6068	126	.0186	.6248	.6248	5000	192	.0196	9796							
9	1	5530	71	.018	.077	.664	+	G	5461	"	.0816	.9958	.6612	69	.0099	.6711	.6727	5530	530	.0479	11065							
11	2	5530	79	.019	.075	.659	+	G	5403	"	.0925	.9957	.6562	127	.0181	.6743												



Dgm = Geophone depth measured from well elevation  
 Dgs = " " " " shot "  
 Dgd = " " " " datum "  
 Ds = Depth of shot  
 De = Shothole elevation to datum plane  
 H = Horizontal distance from well to shotpoint  
 S = Straight line travel path from shot to well geophone  
 tus = Uphole time at shotpoint  
 T = Observed time from shotpoint to well geophone  
 tr = " " to reference geophone  
 Δe = Difference in elevation between well & shotpoint  
 Δsd = " " " " shot & datum plane  
 Δsd = Ds - De  
 $Dgs = Dgm - Ds \pm \Delta e$ ;  $\tan i = \frac{H}{Dgs}$   
 $Tgs = \cos i T = \text{Vert. travel time from shot elev. to geophone}$   
 $Tgd = Tgs \pm \frac{\Delta sd}{V} = \text{" " " " datum plane " "}$   
 $Dgd = Dgm - \Delta md$   
 $Vi = \text{Interval velocity} = \frac{\Delta Dgd}{\Delta Tgd}$   
 $Va = \text{Average " } = \frac{Dgd}{Tgd}$

Surveyed by: Robert H. Ray Co.  
 Date: 26 February, 1961  
 Weathering Data: V = 7000' / s  
Datum Plane +210  
 DEPT. NAT. RES & ENV  
  
 PE907161  
 Casing Record:  
1286' 13 3/8"