Shothole information, Elevation, Distance & Direction from Well

A1-A6 EL+277' 920'N 60°W B1 EL +190' 920' S60°E
B2 +193' " "
B3 +189' " "

Company: FROME-BROKEN HILL

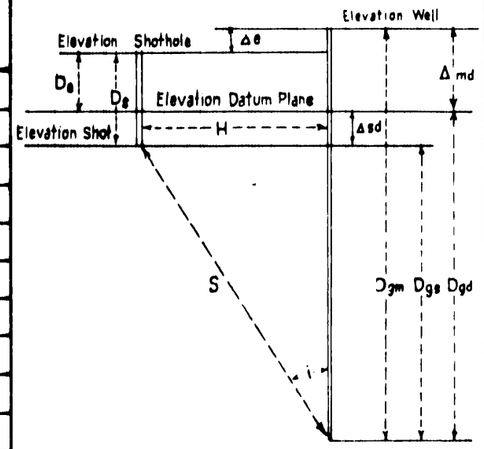
Well: Port Campbell #2

Rotary Table Elevation (Derrick Floor): +282

Total Depth: 8838'

LOCATION — Coordinates | Section, Township, Range | County | Area or Field

Record Number	Shothole Number	Dgm	Ds	tus	tr	T Reading	T Polarity	T Grade	Dgs	H	tan i	cos i	Tgs	Δsd	Δsd/V	Tgd	Tgd Average	Dgd	ΔDgd	ΔTgd	Vi Interval Velocity	Va Average Velocity
1	B-3	1230	81	.024	.182	.228	+		1056	920	.87121	.75399	.1719	174	+.0311	.2030	.2030	1230				6059
2	B-3	1450	79	.025	.182	.247			1276	920	.71987	.81158	.2005	172	.0307	.2312	.2312	1450	220	.0282	7801	6272
25	A-3	2000	71	.020	.171	.304			1924	920	.47817	.90217*	.2743	76	.0136	.2879	.2879	2000	550	.0567	9700	6947
3	B-3	2500	81	.025	.181	.336			2326	920	.39553	.92990	.3124	174	.0311	.3435	.3435	2500	500	.0556	8993	7278
24	A-3	3000	77	.023	.172	.398			2918	920	.31528	.95373	.3796	82	.0146	.3942	.3942	3900	500	.0507	9862	7610
4	B-3	3500	82	.024	.181	.441			3325	920	.27669	.96379	.4250	175	.0313	.4563	.4560	3500	500	.0618	8091	7675
23	A-4	3900	52	.019	.171	.461			3443	920	.26721	.96611	.4454	57	.0102	.4556						
22	A-4	4000	57	.017	.170	.515			3938	920	.23362	.97379	.5015	62	.0111	.5126	.5126	4000	500	.0566	8834	7803
21	A-4	4500	60	.018	.172	.568			4435	920	.20744	.97915	.5562	65	.0116	.5678	.5678	4500	500	.0552	9058	7925
5	B-3	5000	82	.025	.181	.597			4825	920	.19067	.98231	.5864	175	.0313	.6177	.6158	5000	500	.0480	10417	8120
20	A-4	5000	64	.018	.170	.612			4931	920	.18657	.98304	.6016	69	.0123	.6139						
19	A-4	5500	65	.018	.169	.631?			5430	920	.16943	.98595	.6221	70	.0125	.6346?	.6346?	5500	-	N.G.	-	N.G.
6	B-3	5810	83	.025	.181	.670			5634	920	.16329	.98693	.6612	176	.0314	.6926	.6911	5810	810	.0753	10757	8407
18	A-5	5810	52	.016	.171	.688			5753	920	.15992	.98745	.6794	57	.0102	.6896						
	A-5	6300	52	.016	.170	.731			6243	920	.14737	.98932	.7231	57	.0102	.7333	.7333	6300	490	.0423	11584	8591
16	A-5	6800	58	.015	.168	.773			6737	920	.13656	.99080	.7659	63	.0113	.7772	.7772	6800	500	.0438	11416	8749
15	A-5	7300	83	.017	.168	.817			7212	920	.12757	.99196	.8104	88	.0157	.8261	.8261	7300	500	.0489	10225	8837
7	B-3	7900	80	.024	.181	.856			7727	920	.11906	.99299	.8500	173	.0309	.8809	.8781	7900	600	.0520	11538	8997
14	A-5	7900	80	.020	.170	.866			7815	920	.11772	.99315	.8601	85	.0152	.8753						
8	B-2	8188	72	.021	.181	.877			8027	920	.11461	.99350	.8713	161	.0288	.9001	.8967	8188	288	.0186	15484	9131
13	A-6	8188	79	.021	.168	.884			8104	920	.11352	.99362	.8784	84	.0150	.8934						
9	B-1	8514	72	.024	.180	.902			8350	920	.11018	.99398	.8966	164	.0293	.9259	.9225	8514	326	.0258	12636	9229
12	A-6	8514	81	.021	.167	.909			8428	920	.10916	.99410	.9036	86	.0154	.9190						
10	B-2	8838	68	.024	.184	.927			8681	920	.10598	.99443	.9218	157	.0280	.9498	.9450	8838	324	.0225	14400	9352
11	A-6	8838	75	.020	.166	.931			8758	920	.10505	.99453	.9259	80	.0143	.9402						



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
$\Delta sd = Ds - De$
$Dgs = Dgm - Ds \pm \Delta e$: $\tan i = \frac{H}{Dgs}$
Tgs = cos i T = Vert. travel time from shot elev. to geophone
$Tgd = Tgs \pm \frac{\Delta sd}{V}$ = " " " " datum plane " "
$Dgd = Dgm - \Delta md$
Vi = Interval velocity = $\frac{\Delta Dgd}{\Delta Tgd}$
Va = Average " = $\frac{Dgd}{Tgd}$

Surveyed by: Robert H. Ray Co.

Date: December 2, 1960

Weathering Data:
V = 5600'/sec.
Datum Plane = +282'

Casing Record:

DEPT. NAT. RES. & ENV.
PE907150

Well Velocity Calculation Form