

DEPT. NAT. RES & ENV  
  
 PE905759

COMPANY  
 FROME - BROKEN HILL CO. PTY. LTD.

WELL  
 FERGUSONS HILL N° 1

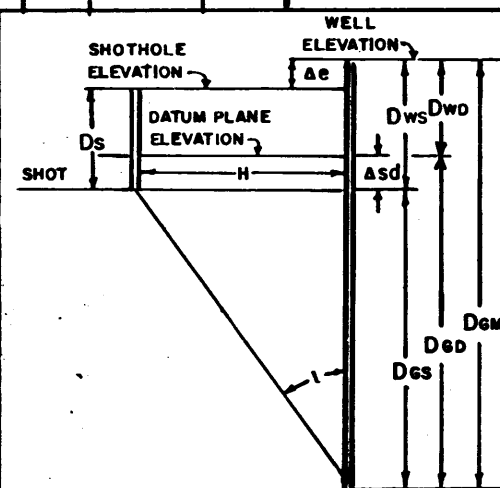
LOCATION

PORTION:  
 PARISH:  
 COUNTY:

LATITUDE:  
 LONGITUDE:

DATUM: 651 ft.

SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	ELEVATION	
A	658	1000																							KELLY BUSH.
B	650	500																							ROTARY T&L 651 ft.
C	635	500																							DERRICK FL
D	632	1000																							GROUND
RECORD NO.	SHOT HOLE NO.	DGM	Tos	Tc	Ds	Δe	Dws	Δsd	Dgs	H	TAN I	Cos I	T	GRADE	Tes	$\frac{\Delta sd}{V_i}$	Tgd	Dgd	ΔDgd	ΔTgd	V <sub>i</sub> INTERVAL VELOCITY	V <sub>A</sub> AVERAGE VELOCITY			
23	B	1000	.128	.038	103	1	104	104	896	500	.5580	.8732	.151	?	.132	.021	.153	1000							
24	C	1000	.124	.040	103	16	119	119	881	500	.5675	.8697	.172	G	.150	.024	.174	1000	1000	.1285	7782	6116			
2	B	2000	.127	.039	103	1	104	104	1896	500	.2637	.9670	.282	G	.273	.021	.294	2000							
3	C	2000	.123	.041	98	16	114	114	1886	500	.2651	.9666	.276	G	.267	.023	.290	2000	1000	.1055	9479	6849			
21	C	3000	.120	.043	98	16	114	114	2886	500	.1733	.9853	.378	G	.372	.023	.395	3000						7547	
22	B	3000	.131	.035	103	1	104	104	2896	500	.1727	.9854	.385	G	.379	.021	.400	3000	1000	.0890	11236				
19	B	4000	.128	.026	92	1	93	93	3907	500	.1280	.9919	.473	G	.469	.019	.488	4000						8222	
20	C	4000	.119	.030	92	16	108	108	3892	500	.1285	.9918	.467	G	.463	.022	.485	4000	1000	.0840	11905				
4	D	5000	.225	.042	95	19	114	114	4886	1000	.2047	.9797	.561	F	.550	.023	.573	5000						8764	
5	A	5000	.219	.021	94	-7	87	87	4913	1000	.2035	.9799	.562	G	.551	.017	.568	5000	1000	.0785	12739				
17	D	6000	.227	.041	92	19	111	111	5889	1000	.1698	.9859	.634	G	.625	.022	.647	6000						9245	
18	A	6000	.236	.018	73	-7	66	66	5934	1000	.1695	.9361	.647	G	.638	.013	.651	6000	1000	.0760	13158				
15	A	7000	.225	.017	70	-7	63	63	6937	1000	.1442	.9898	.716	G	.709	.013	.722	7000						9655	
16	D	7000	.226	.028	90	19	109	109	6891	1000	.1451	.9896	.713	G	.706	.022	.728	7000	1000	.0725	13793				
6	A	8000	.220	.033	95	-7	88	88	7912	1000	.1264	.9921	.783	F	.777	.018	.795	8000						10031	
8	D	8000	.228	.038	95	19	114	114	7886	1000	.1268	.9922	.783	F	.777	.023	.800	8000	1000	.0720	13889				
13	D	9000	.232	.040	95	19	114	114	8886	1000	.1125	.9938	.858	P	.853	.023	.876	9000						10351	
14	A	9000	.220	.021	85	-7	78	78	8922	1000	.1121	.9938	.852	F	.847	.016	.863	9000	1000	.0585	17094				
12	A	10000	.220	.026	95	-7	88	88	9912	1000	.1009	.9952	.914	G	.910	.018	.928	10000						10776	
10	D	11500	.211	.041	140	19	159	159	11341	1000	.0882	.9963	1.003	?	.999	.032	1.031	11500	1500	.1030	14563				
11	A	11500	.222	.043	140	-7	133	133	11367	1000	.0880	.9963	1.007	P	1.003	.027	1.030	11500						11165	



DWD = KELLY ELEVATION MINUS DATUM ELEVATION  
 DGM = SEISMOMETER DEPTH BELOW KELLY ELEVATION  
 Tos = TIME TO OFFSET GEOPHONE  
 Tc = TIME CORRECTION (FROM REFLECTION, REFRACTION, OR UPHOLE TIME)  
 Ds = DEPTH OF SHOT  
 Δe = KELLY ELEVATION MINUS SHOTHOLE ELEVATION  
 Dws = Ds + Δe  
 Δsd = Dws - Dwd  
 Dgs = Dgm - Dws  
 H = HORIZONTAL DISTANCE, WELL TO SHOTHOLE  
 TAN I = H/Dgs  
 T = WELL SEISMOMETER TIME FROM TIME BREAK  
 Tes = T Cos I  
 Tgd = Tos + Δsd/V<sub>i</sub> = VERTICAL TRAVEL TIME, WELL SEISMOMETER TO DATUM PLANE.  
 DGD = DGM - DWD = VERTICAL DISTANCE, WELL SEISMOMETER TO DATUM PLANE  
 V<sub>i</sub> = INTERVAL VELOCITY = ΔDgd/ΔTgd  
 V<sub>A</sub> = AVERAGE VELOCITY = DGD/TGD

SURVEYED FOR: FROME - BROKEN HILL  
 SURVEYED BY: UNITED GEOPHYSICAL CORP.  
 COMPUTED BY: T. J. GREER  
 DATE SURVEYED: MAY 4, 1964

CASING: 5830 ft.

WEATHERING:

DATUM VELOCITY: 5000 ft/sec.