

Table 10 Subsurface occurrence of gamma ray radioactivity peaks in the Clarabelle area

Number of drill holes logged	43
Number of radioactivity peaks noted	352
Range in gamma ray radioactivity	140 to 18,000 c.p.s.
Footage of core	3,394 feet
Number of contacts among beds	580

	Number	Per- cent	Range Counts per second	Median	Mean	Standard deviation
PEAKS WITHIN BEDS	199	57	140 to 18,000	780	1,999	3,194
PEAKS AT OR NEAR LITHOLOGIC CONTACTS						
Similar lithology	42	12	150 to 11,000	685	1,880	2,705
Dissimilar lithology	111	31	150 to 17,000	600	1,380	2,364
TOTAL	352	100				

GAMMA RAY RADIOACTIVITY PEAKS WITHIN BEDS

Lithology	Total footage	Average number of peaks per foot	Number	Per- cent	Range	Median	Mean	Standard deviation
Limestones	11	0.	0					
Mudstones	1,586	0.026	42	21	140 to 2,400	330	587	573
Sandstones, very fine-grained	1,136	0.081	92	46	140 to 12,000	790	1,825	2,581
Sandstones, fine-grained	513	0.078	40	20	150 to 18,000	750	2,243	3,957
Sandstones, medium-grained	148	0.169	25	13	190 to 15,000	3,000	4,622	4,695
TOTAL	3,394		199	100				

GAMMA RAY RADIOACTIVITY PEAKS NEAR OR AT LITHOLOGIC CONTACTS

A. Contacts of similar lithology

Lithology	Number	Percent with noted peaks	Number	Per- cent	Range	Median	Mean	Standard deviation
Mudstones	134	6.7	9	21	150 to 6,500	330	1,084	2,052
Sandstones, very fine-grained	48	33.3	16	38	150 to 11,000	930	2,471	3,524
Sandstones, fine-grained	32	46.8	15	36	150 to 6,750	1,100	1,493	1,748
Sandstones, fine-to-medium-grained	3	66.7	2	5	670 to 6,600	3,635	3,635	
TOTAL	217		42	100				

B. Contacts between rocks of dissimilar lithology

Limestones with mudstones or sandstones	15	6.7	1	100	450			
Mudstones and Sandstones, very fine-grained	203	24.1	49	62	150 to 3,900	600	803	754
Sandstones, fine-grained	52	38.5	20	25	150 to 11,000	550	1,644	2,498
Sandstones, medium-grained	13	76.9	10	13	150 to 4,700	550	1,555	1,886
TOTAL	268		79	100				
Sandstones, very fine-grained and Sandstones, fine-grained	53	34.0	18	75	160 to 17,000	1,035	2,489	3,988
Sandstones, medium-grained	11	54.5	6	25	160 to 11,500	300	2,177	4,570
TOTAL	64		24	100				
Sandstones, fine-grained and Sandstones, fine to medium-grained	16	43.7	7	100	250 to 4,750	360	1,024	1,653
I. Peaks where upper bed is finer-grained			67	60	150 to 17,000	600	1,333	2,603
II. Peaks where upper bed is coarser-grained			44	40	150 to 11,000	645	1,453	1,972
TOTAL			111	100				

I. Peaks where the upper bed is finer-grained

Limestone and mudstone	1	1	450					
Mudstones and Sandstones, very fine-grained	31	46	150 to 2,100	680	762	595		
Sandstones, fine-grained	4	6	150 to 420	385	271	134		
Sandstones, medium-grained	5	8	150 to 600	380	380	179		
Sandstones, very fine-grained and Sandstones, fine-grained	15	22	160 to 17,000	1,100	2,835	4,304		
Sandstones, medium-grained	5	8	180 to 11,500	400	2,581	4,989		
Sandstones, fine-grained and Sandstones, fine- to medium-grained	6	9	250 to 4,750	360	1,140	1,780		
TOTAL	67	100						

II. Peaks where the upper bed is coarser-grained

Mudstones and Sandstones, very fine-grained	18	41	150 to 3,900	345	873	986		
Sandstones, fine-grained	16	37	200 to 11,000	1,110	1,987	2,697		
Sandstones, medium-grained	5	11	210 to 4,700	4,000	2,730	2,127		
Sandstones, very fine-grained and Sandstones, fine-grained	3	7	320 to 1,050	900	757			
Sandstones, medium-grained	1	2	160					
Sandstone, fine-grained and Sandstone, medium-grained	1	2	330					
TOTAL	44	100						

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