

TABLE 6

Mineral composition and average grain size of Haymond sandstones and erratic sandstone pebbles from the boulder bed member. One-hundred counts were made to determine matrix, cement, and micas and accessories; then additional counts were made until 100 framework grains were tallied.

Sample No.	Avg. Max. Size	Plagio- clase	K- feldspar	Chert	Poly- quartz	SRF	MRF	Quartz	Musco- vite	Biotite	Other Ac- cessories	Matrix	Cement	Total Q	Total F	Total Rx	Comments
FLYSCH SANDSTONES BELOW THE BOULDER BEDS																	
H - 2	0.55	13	1	-	4	3	3	76	1	1	1	13	-	80	14	6	*5% calcite pseudomorphs
H - 4	0.19	11	15*	-	3	2	1	68	1	-	1	6	8	71	26	3	
H - 10	0.55	13	-	1	5	9	5	67	-	-	3	6	6	73	13	14	
H - 12	0.40	13		1	-	2	5	79	-	-	2	5	11	80	13	7	
H - 14	0.47	11	-	2	-	6	1	80	-	1	-	10	-	82	11	7	
H - 23	0.20	4	3	4	1	5	7	76	-	-	1	9	-	81	7	12	Placers of heavy minerals
H - 25	0.20	16	2	1	4	2	2	73	-	-	-	9	3	78	18	4	
H - 26	0.55	9	-	-	1	10	6	79	-	-	-	13	-	77	9	14	
H - 28	0.19	17	6	1	-	3	6	67	-	2	3	7	-	68	23	9	
H - 36	0.20	31		-	-	6	5	58	-	-	1	10	8	58	31	11	
H - 38	0.19	24		-	-	12	7	57	-	1	1	9	15	57	24	19	*22% is authi- genic hematite after siderite
H - 51	0.14	8	-	1	2	11	7	71	-	-	1	19	26*	74	8	18	
H - 53	0.23	23	-	-	4	7	4	62	-	-	1	11	4	66	23	11	
H - 54	0.27	14	-	1	1	5	6	73	-	-	-	15	-	75	14	11	
H - 57	0.16	21	-	-	1	8	7	63	1	-	1	25	3	64	21	15	
H - 60	0.17	16	-	-	2	8	5	69	-	-	4	16	13	71	16	13	*authigenic carbonate
H - 63	0.17	24	-	1	-	-	4	71	-	-	3	22	-	72	24	4	
H - 65	0.15	18	-	-	1	7	5	69	1	1	2	30	3*	70	18	12	
H - 67	0.17	25	-	-	3	5	7	60	-	-	1	24	4*	63	25	12	
H - 71	0.19	13	-	-	1	12	12	62	-	1	-	22	-	63	13	24	
H - 73	0.17	25	1*	-	3	8	4	59	-	1	3	25	1	62	26	12	*kaolinite
H - 76	0.17	22	-	-	-	8	4	66	1	2	6	17	-	66	22	12	
H - 79	0.15	19	-	-	5	5	7	64	-	-	1	11	2	69	19	12	
Average	0.25			0.6	1.7	6.3	5.2	68.2	0.2	0.4	1.6	14.5	4.7	70.4	18.2	11.4	
COARSE SANDSTONE BEDS																	
H - 30	1.17	29		-	-	14	1	56	-	5	-	5	-	56	29	15	*3% kaolinite 6% carbonate **volcanic rock
H - 80	1.24	10		10	7	14	9	50	-	1	1	6	5	67	10	23	
H - 81	0.92	12	4	-	-	11	8	65	-	2	1	12	2	65	16	19	
H - 84	0.30	6	7	-	2	2	8	75	-	-	1	7	7	77	13	10	
H - 90	0.56	20	9*	-	3	3	1**	64	-	-	2	10	10	67	29	4	
H - 92	0.17	7	12	1	4	15	-	61	-	-	2	4	1	66	19	15	*omitted from computer data
H - 93	0.21	15	3	1	1	10	8	62	-	-	-	4	20	64	18	18	
H - 99	0.52	6	5	1	4	12	-	72	2	-	-	2	15	77	11	12	
H - 105	1.34	11	-	10	6	14	5	54	-	2	2	8	-	70	11	19	
H - 107	1.06	14	11	1	6	12	7	49	-	1	1	3	5	56	25	19	
H - 118	0.24	9	3	7	-	1	4	76	-	-	-	3	6	83	12	5	
H - 97*	0.78	8	2	-	-	11	4	75	-	-	-	2	4	75	10	15	
Average	0.71			2.6	2.8	9.9	4.6	6.3	tr	1.0	1.0	5.5	6.3	68.6	16.9	14.5	
FLYSCH SANDSTONES ABOVE THE BOULDER BEDS																	
H - 85	0.35	20	6*	-	3	5	1	65	-	1	1	8	7	68	26	6	*1% kaolinite
H - 87	0.25	29	-	-	1	1	7	62	1	1	-	13	1	63	29	8	
H - 89	0.24	18		1	1	6	3	71	-	-	2	9	2	73	18	9	
H - 102	0.26	14	4	-	-	12	11	59	1	-	-	6	10	59	18	23	
H - 106A	0.21	10	5	-	3	16	9	57	2	1	2	17	1	60	15	25	
H - 107A	0.22	22	1*	-	3	4	-	70	-	-	1	10	2	73	23	4	
H - 214	0.27	17	-	-	3	7	6	67	-	1	-	10	4	70	17	13	*kaolinite
H - 216	0.23	20	2*	-	2	13	-	63	-	-	1	10	6	65	22	13	
H - 220	0.12	27	1*	-	-	5	2	65	-	1	2	20	3	65	28	7	
H - 222	0.12	10	-	-	2	13	7	68	-	1	1	16	4	70	10	20	
H - 224	0.14	23	-	-	2	7	5	63	1	-	7	20	3	65	23	12	
Average	0.22	19.2	1.9	0.1	1.8	8.1	4.6	64.5	0.2	0.2	1.5	12.6	4.0	66.5	20.8	12.3	Average of all flysch excluding Dugout beds
	0.24	17.1	1.6	0.4	1.8	6.9	5.0	67.0	0.3	0.5	1.6	13.9	4.4	69.1	19.0	11.7	
FLYSCH SANDSTONES FROM DUGOUT MOUNTAIN AREA																	
H - 109	0.29	18	7	1	2	6	4	62	-	-	2	2	14	65	25	10	*2% limestone *limestone
H - 111	0.34	19	5	-	1	5	1	69	-	-	-	3	18	70	24	6	
H - 113	0.34	11	5	1	-	9*	3	71	-	-	-	4	14	72	16	12	
H - 115	0.97	8	16	1	-	38*	-	37	-	-	2	5	17	38	24	38	
Average	0.49	14.0	8.3	0.8	0.8	19.3	2.0	59.8			1.0	3.5	15.8	61.2	22.2	16.5	
EXOTIC SANDSTONES FROM THE BOULDER BED MEMBER																	
BB - 10	0.50	2**	4	-	2	-	4	88			1	8	3*	90	6	4	*quartz **calcite
BB - 14	0.92	-	-	1	5	-	-	94	-	-	-	3	10	100	-	-	*chloride *3% calcite 3% authigenic hematite **1% VRF ***9% microcline *pyrite **5% VRF
BB - 15	0.25	5	11	-	1	2	11	70	-	-	9*	17	2	71	16	13	
BB - 16	1.90	3	22***		7	1	3**	64	1	-	-	1	6*	71	25	4	
A - 699	0.67	1	-	5**	4	9	9	72			2*	8	3	76	1	23	