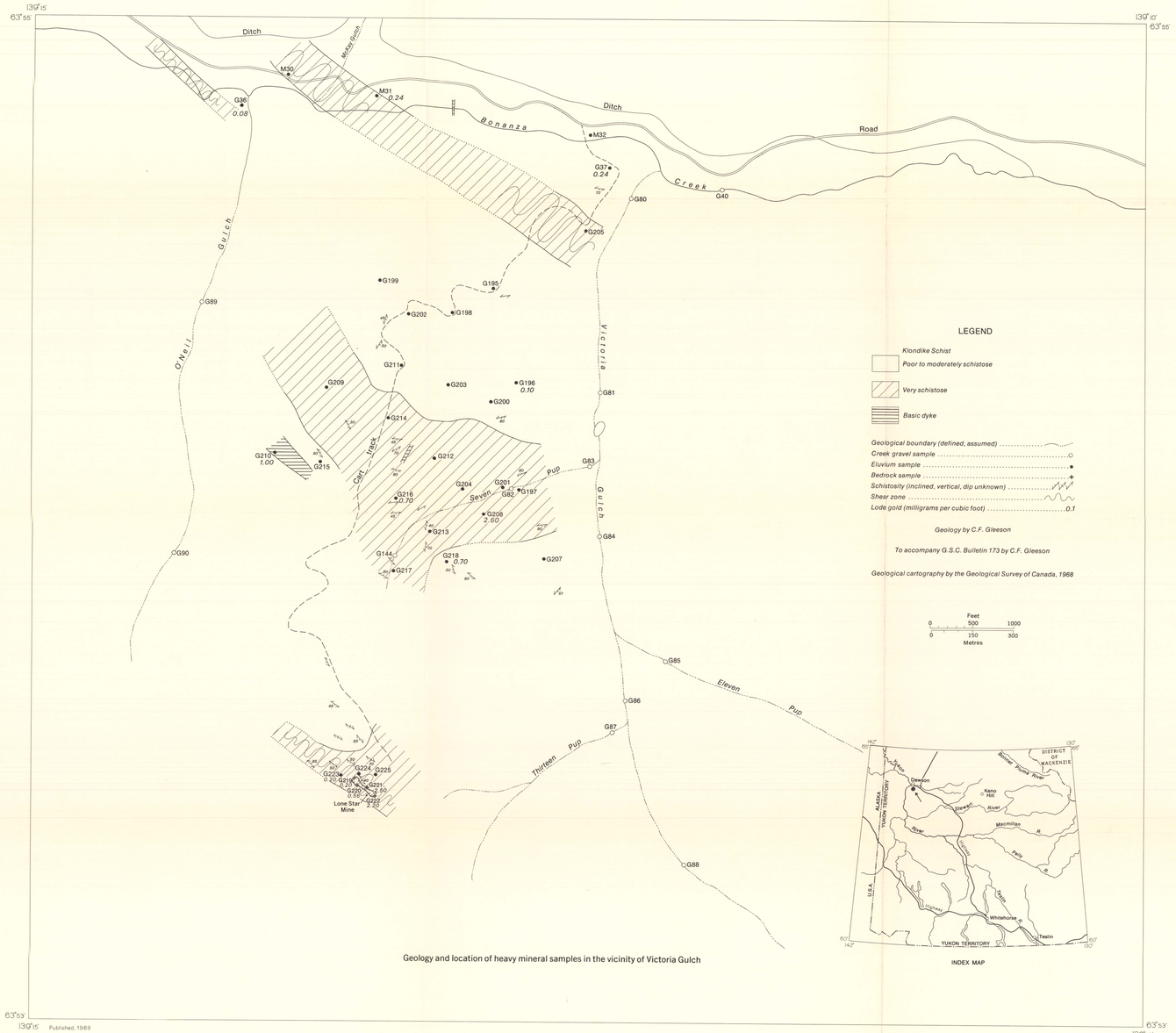
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



Geology and location of heavy mineral samples in the vicinity of Victoria Gulch

INDEX MAP

SAMPLE NUMBER	TYPE OF SAMPLE	TOTAL WEIGHT OF BROMOFORM HEAVIES (GRAMS)	WEIGHT OF HEAVIES BROMOFORM HEAVIES (GRAMS)	GOLD milligrams per cubic feet	WEIGHT PER CENT OF HEAVY MINERALS IN -60+100 MESH FRACTION																											ROCK TYPE	REMARKS
					Goethite	Muscovite	Epidote	Apatite	Magnetite	Ilmenite	Actinolite	Clinopyroxene	Hypersthene	Hornblende	Martite	Pyrite	Barite	Garnet	Sphene	Biotite	Dolomite	Andalusite	Monazite	Rutile	Zircon	Chlorite	Jarosite	Tourmaline	Schwellite	Galena	Native Copper		
G195	ELUVIUM	123.9	15.1		26.0	67.0		3.9	0.2	1.1		tr.	0.1	tr.	tr.		1.3	0.4							tr.							Klondike schist	Moderately schistose
G196		33.8	4.6	0.1	53.3	4.9	3.3	4.3	4.3	2.5	0.7	tr.	19.8		0.2		0.4	0.3	1.6						tr.								
G198		45.9	6.9		55.0	31.5		0.8	0.6	0.2		tr.	3.2	5.7	tr.		2.2		0.8						tr.								
G199		20.6	5.2		12.6	17.3	0.6	1.7	3.1	2.6	3.3	tr.	23.0	31.5	tr.		0.4	0.3	3.6						tr.								
G200		40.6	8.0		39.7	52.7		1.7	0.5	1.4		tr.	2.4	1.5	0.1																		
G202		42.1	3.8		54.7	35.5		2.5	1.1	0.8	0.3	0.2	1.8	tr.	0.1		2.5	tr.	0.4	0.1					tr.								
G203		74.6	12.6		34.2	39.1	1.4	2.7	2.3	0.8	tr.	0.1	12.4	5.3	0.1		0.9		0.7														Moderately schistose
G207		104.6	7.2		23.8	40.5	0.5	17.1	0.9	0.2		tr.	3.9	tr.		tr.		tr.		tr.						10.4	2.7					Klondike schist	Moderately schistose-chloritic
G210		62.2	12.5	1.0	10.4	7.6	0.7	12.7	6.0	5.0	0.4	0.2	51.5	3.0				0.3	1.9			0.3			tr.							Basic dyke in Klondike schist	
G211		70.8	4.8		42.3	24.2	0.6	25.6	4.3	0.3	0.6	0.2	1.3	0.3					0.3						tr.							Klondike schist	Moderately schistose
G215		373.5	13.5		4.2	37.2	0.3	15.6	0.3	0.2	22.4	tr.	0.2	3.2					16.4	tr.													
G218		65.9	3.3	0.07	30.5	17.5	0.3	39.9	0.6	1.0	0.3	0.1	4.1	3.9			0.4		1.4	tr.													
G36		45.6	10.4	0.08	0.9	70.2	0.6	tr.	0.2	tr.			tr.	tr.			0.1		0.8			0.1		0.1	tr.		27.0						
G37		91.3	23.7	0.24	2.9	62.7	29.3	1.8	0.6	0.9	0.1		0.3				0.2			0.3					0.1	0.8							
M32	ELUVIUM	114.8	5.4		9.0	9.5	0.3	19.0	0.4	0.5	tr.		0.3				57.8		3.1	0.1					tr.								
Average of 14 samples (G210 not included)		89.1	8.9		27.8	36.4	2.7	9.8	1.4	0.9	2.0	tr.	5.2	4.0	tr.	tr.	4.7	0.1	2.1	tr.		tr.		tr.	tr.	0.8	2.1						Moderately schistose
G197	ELUVIUM	78.6	12.1		39.2	39.0	2.1	12.7	0.5	0.8	2.5	tr.	1.7	tr.	tr.			tr.	1.5						tr.								Very schistose
G201		7.2	1.8		39.1	23.4	0.8	33.2	0.6	0.5	0.8		tr.	1.1				tr.	0.3														
G204		144.2	11.6		29.8	38.8	0.9	28.1	0.3	0.1	0.6	tr.	0.7	tr.	tr.				0.7														
G205		39.6	19.0		2.8	93.0			tr.	0.7			tr.		tr.	tr.	3.5																
G208		72.0	9.2	2.60	36.2	19.1	4.6	21.1	1.1	0.2	4.4	tr.	1.2	1.0		tr.			9.9	tr.							1.2						
G209		41.8	6.1		50.2	5.7	0.8	27.6	1.4	0.5	1.5	tr.	7.3	3.1			0.7		1.2	tr.					tr.								
G212		61.8	9.4		41.1	19.9	0.3	25.6	1.3	0.4	0.6	0.1	3.9	5.3					1.5	tr.													
G213		17.5	3.4		47.9	34.0		11.0	1.2	3.3	0.3	tr.	2.0	tr.						0.3					tr.								
G214		45.5	8.9		85.8	6.6		6.3	0.1	0.9			0.3	tr.																			
G216		85.2	6.8	0.70	36.5	37.4		17.2	1.3	0.3	3.6	tr.	1.6	1.0		tr.			1.1														
G217		21.7	2.3	43.0	20.8	15.7	1.8	8.2	8.5	3.7	0.3	tr.	16.0	2.8	0.1		19.8		1.9						0.4								
M30		11.4	1.3		52.5	28.5	2.1	10.5	5.2	tr.	0.3					tr.	0.3								0.6								
M31		43.0	2.0	0.23	23.8	17.1		13.9	3.0	0.1	19.9		tr.			tr.	18.2					3.8			0.2								
G223		8.7	1.7	0.20	50.3	32.6	3.0	6.7	2.3	2.0			tr.			2.3		tr.	0.8														
G224		64.7	5.7		26.2	59.4		9.8	2.7	0.6			tr.		0.2	tr.	0.4	0.4	0.3						tr.								
G225	ELUVIUM	24.7	2.5		46.5	37.8		7.7	0.3	0.1			tr.		tr.	7.6				tr.													
Average of 16 samples		48.0	6.5		39.3	31.7	1.0	15.0	1.9	0.9	2.2	tr.	2.2	0.9	tr.	0.6	2.7	tr.	1.2	tr.		0.2			0.1		0.1						Very schistose
G219	BEDROCK	19.9	0.9	0.20	21.4	63.7	1.4	4.2	0.6	1.8		tr.	0.3	tr.		3.9			1.5	0.8					0.4								Very schistose from open cut Lone Star mine
G220	BEDROCK	462.9	62.3	0.50	2.6	35.2		6.7	tr.	tr.		tr.	tr.	tr.		51.4		tr.			4.1												
G221	BEDROCK	72.1	14.3	2.50	27.9	63.6		0.9	0.2	2.4						5.0				tr.										tr.			
G222	BEDROCK	54.2	5.0	2.20	29.8	45.0		4.8	0.3	2.3			tr.	tr.	0.1	7.9	9.2						0.6										
Average of 4 bedrock samples		152.3	20.6		20.4	51.9	0.3	4.2	0.3	1.6		tr.	0.1	tr.	tr.	17.1	2.3	tr.	0.4	0.2	1.0		0.1		0.1						tr.	Klondike schist	Very schistose from open cut Lone Star mine
* G206	QUARTZ PILE	104.7	13.9	3.1	31.1	2.3			0.3	0.3		tr.	0.5	0.4		tr.	47.8			tr.					tr.		17.3				tr.	Quartz-barite	Rubble from quartz-barite vein cutting Klondike schist (poorly schistose), Violet deposit open cut
* G236	QUARTZ PILE	855.5	77.9	39.0	54.0	14.3	10.9	0.7	0.3	5.3		5.2	0.7	0.2		4.0			0.4	1.7							2.2				tr.	tr.	Quartz	Rubble from quartz vein, Mitchell deposit-shaft
* G237	SCHIST PILE	380.7	38.5	0.4	10.3	0.2	8.4	7.3	3.4	0.6	0.3	2.5				20.8				0.3	2.0					43.9						tr.	Chlorite schist	Rubble from quartz-chlorite schist, Mitchell deposit-shaft
* G238	BEDROCK	842.1	49.9			8.4	8.0	1.8	14.4	0.5	0.3									60.5						6.1							Quartz-biotite-chlorite schist	Trench, Mitchell deposit - 775 feet north of shaft
G40	CREEK GRAVEL	580.8	69.1	2.75	13.1	7.2	14.6	6.5	23.0	0.3	29.5		2.2				1.4		tr.	0.3				tr.		0.9	0.7	0.3					Bonanza Creek
G80		188.9	3.8	0.42	43.8	4.7	2.8	4.4	13.3	2.5	0.4		8.0			1.2	16.5			0.5						1.9							Victoria Gulch
G81		152.8	5.6	1.25	37.7	16.8	2.5	8.1	10.3	0.7	0.6		7.0				12.1			0.4						3.8							Victoria Gulch
G83		103.6	3.6	7.32	33.9	6.6	6.1	9.2	16.8	1.1	1.0		11.4	1.0			7.6		5.3						tr.				tr.				Seven Pup Victoria Gulch
G82		89.2	12.0	15.47	18.9	9.2	7.3	21.0	5.9	1.2	2.2		22.3	2.0			3.4		3.7	2.5					tr.	0.4							Seven Pup Victoria Gulch
G144		39.1	4.2	12.64	66.6	12.1	3.1	2.8	1.2	1.3	1.8	2.7	3.6			0.2	3.0	0.1							tr.	1.5			tr.	tr.			Seven Pup Victoria Gulch
G84		271.8	2.9	7.89	38.5	5.9	4.5	9.7	19.8	2.6	0.2		8.0			0.2	7.3		3.3						tr.								Victoria Gulch
G85		88.9	1.9	0.19	43.0	10.1	19.2	7.8	8.6	0.7	tr.		2.6			0.1	4.8	0.2	2.6						0.1	tr.	0.2						Eleven Pup Victoria Gulch
G86		166.2	3.5	8.17	57.5	6.0	4.6	5.4	4.7	0.2	0.1		5.0			1.7	10.8		2.5	0.9							0.6	tr.					Victoria Gulch
G87		39.0	3.6	1.11	37.4	37.9	2.0	5.6	2.5	0.2	tr.		1.0			3.9	5.0		2.1					0.1	0.3	0.5	1.5						Fifteen Pup Victoria Gulch
G88		117.2	4.8	3.33	36.3	25.9	7.3	7.8	1.9	1.3	3.0		7.2			3.9	1.7		2.2	tr.							1.5						Victoria Gulch
G89		343.2	14.1	0.93	42.5	28.6	1.4	7.7	1.6	0.2	1.0		1.4				12.0		1.8					0.2			0.6	1.0					O'Neil Gulch
G90	CREEK GRAVEL	56.1	3.5	0.25	13.0	2.1	43.1	4.5	4.6	1.7	7.0		17.2	1.0		tr.	3.3	0.5	1.0					tr.	1.0									O'Neil Gulch

* For location see Figure 17

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Figure 20. Heavy mineral content of eluvium and creek gravels; and in bedrock from the Lone Star, Violet and Mitchell deposits in the vicinity of Victoria Gulch, Yukon Territory.