



Department of Energy, Mines and Resources
Ministère de l'Énergie, des Mines et des Ressources

Geological Survey of Canada
Commission géologique du Canada

File Number
N° à rappeler

April 13, 1971

Reference: Open File release, Keno Hill area, Yukon Territory, Heavy Minerals data. To be attached to Geochemical Lab Report.

Note: Samples 510048, 410086, 410087 and 210074, are not in the map area and therefore are not shown on the map sheet.

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GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
1971



BONDAR-CLEGG & COMPANY LTD.

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PHONE 988-5315

DATE REC'D Jan 15, 1971

GEOCHEMICAL LAB REPORT

No. 21-13

Extraction..... Au Fire Assay & Hot Aqua regia
Method..... Au Atomic Absorption
Fraction Used..... As Received

From..... Geological Survey of Canada
Date..... Completed March 3 19 71
Analyst..... K.B.

SAMPLE NO.	Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
110001	270	L270	110032	195	390	
2	20	8350	33	20	20	
3	270	135000	34	10	2550	
4	205	1850	35	30	645	
5	30	70	36	15	50	
6	35	740	37	1350	1350	
7	195	195	38	110	L110	
8	405	32500	39	130	130	
9	340	L340	40	250	L250	NOTE: L means less than
10	70	11000	41	55	55	
11	225	560	42	280	L280	
12	235	L235	43	705	L705	Data on this sheet is not to be published in any form. <i>R.W. Boyle</i> R.W. Boyle
13	85	580	44	6250	L6250	
14	35	L35	45	1150	1150	
15	520	L520	46	25	25	
16	2000	L2000	47	2900	L2900	
17	145	L145	48	435	435	
18	55	L55	49	430	L430	
19	350	L350	50	70	L70	
20	35	L35	51	150	150	
21	155	L155	52	480	480	
22	110	445	11 - 54 Res.	6900	L6900	
23	40	40	55	4100	L4100	
24	520	L520	56	305	L305	
25	410	L410	57	130	L130	
26	175	L175	58	10	L10	
27	20	20	59	25	L25	
28	15	15	60	N.S.	N.S.	
29	135	135	61	100	1060	
30	25	16500	62	45	L45	
31	290	L290	63	35	50500	

GEOCHEMICAL LAB REPORT

SAMPLE NO.		Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
11 - 64		230	230	110100	35	35	
65		60	22000	101	85	580	
66		90	190000	102	40	27500	
67		40	360	103	70	25500	
68		335	L335	104	110	L110	
69		150	L150	105	250	L250	
70		75	19500	106	45	3100	
71		135	135	107	15	L15	
72		100	4300	108	200	L200	
73		430	4550	109	20	38500	
74		205	205	110	95	12500	
75		275	275	111	140	L140	
76		550	L550	210074	30	4550] off map sheet Data not plotted
77		775	L775	75	90	630	
78		10	105	76	105	7700	
79		10	580	77	20	635	Data on this sheet is not to be published in any form. <i>R.W. Boyle</i>
80		215	L215	78	55	55	
81		110	L110	79	40	40	
110082		20	20	80	80	L80	R.W. Boyle
83		140	L140	81	15	25000	NOTE: L means less than
84		40	1800	82	120	30500	
85		35	14000	310078	125	125	
86		15	15	79	75	L75	
87		35	L35	80	95	L95	
88		15	L15	81	35	2350	
89		25	L25	82	50	L50	
90		155	L155	83	85	4500	
91		40	40	84	50	59500	
92		25	L25	85	10	7500	
93		20	L20	86	725	L725	
94		225	L225	87	685	L685	
95		15	L15	88	55	L55	
96		45	875	89	30	30	
97		55	L55	90	10	720	
98		130	L130	91	65	L65	
99		110	L110	01	100	L100	

GEOCHEMICAL LAB REPORT

SAMPLE NO.		Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
310002		155	L155	310038	270	L270	
3		330	L330	39	780	L780	
4		245	12000	40	545	2700	
5		1120	L1120	41	685	1350	
6		75	2450	42	170	585	
7		45	L45	43	1100	L1100	
8		475	L475	44	695	L695	
9		475	475	45	815	L815	
10		470	L470	46	95	95	
11		115	115	47	6900	L6900	
12		385	9200	48	155	45500	
13		225	L225	49	430	38000	
14		20	1550	50	8050	L8050	
15		45	L45	51	165	555000	
16		15	25	52	2200	L2200	
17		95	L95	53	4450	4450	
18		20	20	54	310	L310	not to be published in
19		135	L135	55	2600	L2600	any form. <i>R.W. Doyle</i>
20		385	L385	56	12000	L12000	
21		90	L90	57	59000	L59000	
22		15	L15	58	610	L610	
23		10	L10	59	590	L590	
24		85	L85	60	85	6450	
25		105	4000	61	315	L315	
26		45	L45	62	15	15	
27		85	L85	63	30	75	
28		255	L255	64	175	L175	
29		465	L465	65	25	25	
30		270	270	66	1150	L1150	
31		675	L675	67	430	430	
32		1050	L1050	68	150	L150	
33		515	L515	70	25	L25	
34		225	L225	71	280	L280	
35		175	8850	72	40	7250	
36		11000	L11000	73	45	L45	
37		195	L195	74	35	L35	

GEOCHEMICAL LAB REPORT

SAMPLE NO.	Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
310075	130	L130	410034	125	125	
76	45	L45	35	365	545	
77	70	375	36	20	20	
410001	460	34000	37	250	375	
2	265	33000	38	590	L590	
3	285	*	39	60	8300	
4	210	6850	40	150	2700	
5	105	11500	41	460	L460	
6	30	5000	42	285	L285	
7	135	535	43	210	L210	
8	75	L75	44	750	L750	* Sample Lost - lab accident
9	1150	L1150	45	240	L240	
10	845	L845	46	1200	L1200	Data on this sheet is
11	480	24000	47	730	L730	not to be published in
12	630	L630	48	215	L215	any form. <i>R.W. Boyle</i>
13	6100	L6100	49	35	L35	R.W. Boyle.
14	555	L555	50	290	55000	
15	490	L490	51	155	L155	
16	390	L390	52	85	3500	
17	475	L475	53	10	L10	
18	50	L50	54	200	L200	
19	7700	L7700	55	80	80	
20	170	L170	56	85	345	
21	410	L410	57	50	L50	
22	70	L70	58	125	L125	
23	20	L20	59	105	L105	
24	45	45	60	20	L20	
25	155	L155	61	15	L15	
26	20	L20	62	15	L15	
27	5000	L5000	63	60	L 60	
28	90	L90	64	30	7250	
29	160	L160	65	70	L70	
30	230	L230	66	290	L290	
31	1350	L1350	67	140	L140	
32	475	L475	68	45	L45	
33	1150	L1150	69	60	L60	

GEOCHEMICAL LAB REPORT

SAMPLE NO.		Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
410070		25	L25	510034	335	1150000	
71		125	L125	35	*	*	*Au 382 oz/ton Ag 41 Oz/ton
72		280	L280	36	125	135000	
510001		40	2350	37	120	80500	
2		15	5050	38	90	1300	
3		65	65	39	20	L20	
4		115	L115	40	100	340	
5		40	L40	41	95	185	
6		550	L550	42	85	85	
7		125	125	43	30	75	
8		55	80	44	15	45	
9		515	L515	45	20	160	
10		810	L810	46	15	12000	Data on this sheet is
11		95	30500	47	30	43000	not to be published in
12		55	1650	48	10	7850	any form.
13		60	L60	410073	50	165	<i>R.W. Boyle</i> not plotted off sheet.
14		25	105	74	40	60	
15		90	5050	75	35	50	
16		285	L285	76	25	660	
17		30	30	77	45	70	
18		260	L260	78	35	65	
19		20	L20	79	40	75	
20		10	30500	80	45	155	
21		80	365	81	15	L15	
22		75	1200	82	65	4750	
23		95	L95	83	175	52000	
24		910	8200	84	35	35	
25		100	500	85	255	635	
26		45	L45	86	120	240	not plotted off map sheet
27		20	495	87	4250	4250	
28		15	5150	88	45	310	
29		25	18600	210001	25	205	
30		30	55	2	65	1750	
31		20	20	3	115	L115	
32		50	5000	4	130	2050	
33		120	3700	5	115	L115	

GEOCHEMICAL LAB REPORT

SAMPLE NO.		Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
210006		1450	L1450	210043	75	75	
7		710	81500	44	25	L25	
8		190	L190	45	10	L10	
9		325	L325	46	15	L15	
10		35	210	47	85	125	
11		50	355000	48	15	15	
12		280	560	49	10	185	
13		30	255	50	20	140	
14		25	2600	51	25	L25	
15		1300	L1300	52	35	50	
16		95	95	53	65	100	
17		180	L180	54	175	L175	
18		45	L45	55	95	L95	Data on this sheet is not to be published in any form.
19		300	L300	56	75	L75	
20		1050	L1050	57	25	145	
21		295	295	58	90	90	R.W. Boyle.
22		280	L280	59	520	L520	
23		150	L150	60	170	340	
24		95	2850	61	85	85	
25		190	190	62	190	845	
26		35	11000	63	225	L225	
27		510	1550	64	90	L90	
28		25	45	65	475	L475	
29		25	95	66	135	L135	
30		80	L80	67	280	280	
31		55	85	68	200	L200	
32		20	L20	69	55	L55	
33		60	335	70	125	185	
34		20	L20	71	110	L110	
35		20	L20	72	130	L130	
36		85	5050	73	470	L470	
37		15	15	610001	185	835	
39		30	115	2	260	39500	
40		40	100	3	550	L550	
41		20	795	4	255	255	
42		50	6800	5	320	320	

GEOCHEMICAL LAB REPORT

SAMPLE NO.		Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
610006		525	L525	610042	35	L35	
7		115	115	43	55	L55	
8		635	635	44	65	65	
9		235	13500	45	55	365	
10		370	L370	46	55	L55	
11		60	60	47	25	25	
12		415	L415	48	50	L50	
13		100	L100	49	75	L75	
14		40	95	50	45	L45	
15		75	L75	51	30	L30	
16		20	1250	52	50	L50	
17		1250	L1250	53	20	1100	
18		150	150	54	170	L170	Data on this sheet is not to be published in any form.
19		30	30	55	30	L30	
20		425	425	56	95	190	
21		10	L10	57	55	L55	R.W. Boyle.
22		65	65	58	50	L50	
23		30	30	59	230	L230	
24		265	L265	60	60	L60	
25		25	L25	61	40	L40	
26		165	L165	62	90	L90	
27		295	L295	63	215	L215	
28		55	L55	64	20	75	
29		110	L110	65	115	L115	
30		40	L40	66	15	L15	
31		450	L450	67	15	L15	
32		380	L380	68	340	L340	
33		235	700	69	95	L95	
34		60	1550	70	75	L75	
35		20	L20	71	90	445	
36		50	L50	72	50	L50	
37		15	220	73	260	L260	
38		20	L20	74	665	L665	
39		10	L10	75	50	L50	
40		25	L25	710001	775	L775	
41		30	L30	2	90	415	

GEOCHEMICAL LAB REPORT

SAMPLE NO.	Detect Limit ppb	Au ppb	SAMPLE NO.	Detect Limit ppb	Au ppb	REMARKS
710003	20	30	710039	20	20	
4	210	210000	40	10	L10	
5	285	1000	41	25	*	* lab accident sample lost
6	840	2500	42	10	L10	
7	105	11000	43	15	L15	
8	50	105	44	15	L15	
9	145	L145	45	35	L35	
10	40	40	46	15	50	
11	195	L195	47	330	L330	
12	185	L185	48	130	L130	
13	2150	L2150	49	35	785	
14	140	L140	50	115	L115	
15	120	11000	51	30	L30	Data on this sheet is not to be published in any form.
16	55	720	52	30	L30	
17	145	2500	53	175	L175	
18	25	125000	54	235	L235	
19	130	37500	55	110	L110	
20	320	L320	56	30	6350	
21	855	L855	57	30	L30	
22	425	4450	58	35	L35	
23	30	L30	59	15	L15	
24	30	1000	60	120	L120	
25	10	10	61	20	L20	
26	145	L145				L means less than
27	140	L140				
28	115	L115				
29	195	L195				
30	100	11500				
31	15	890				
32	10	1100				
33	25	1850				
34	15	3300				
35	60	L60				
36	25	L25				
37	35	L35				
38	10	10				