STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

Alaska Geologic Materials Center *Data Report No. 373*

No. 373: 1964 Bear Creek Mining Company drill logs and assay records
for the Orange Hill Property, Nabesna Quadrangle, Alaska: Drill holes
OH #1 and OH #2

Received *March, 2010*

All data reports may be downloaded free of charge from the [DGGs website](#).

BEAR CREEK MINING COMPANY - NORTHWEST DISTRICT
DRILLING - ASSAY RECORDExamination ORANGE HILL (51-035) State ALASKAArea Nabesna, Alaska Drill Hole OH # 1

Assay No.	Depth	Description of Sample	Date Shipped	Assay Office	%Cu	%MoS ₂	OzAu	OzAg
OH-1	76-86	crushed to 1/8 inch	6/16/64	Union	0.100	0.0135	0.005	none
OH-2	86-96				0.075	0.022		
OH-3	96-106				0.094	0.004		
OH-4	106-116				0.390	0.006		
OH-5	116-126				0.132	0.042		
OH-6	126-136				0.075	0.075		
OH-7*	136-146				0.138	0.013		
OH-8	146-156				0.151	0.001	0.005	none
OH-9	156-166				0.113	0.004		
OH-10	166-176				0.201	0.013		
OH-11	176-186				0.189	0.006		
OH-12	186-196				0.126	0.009		
OH-13	196-206				0.189	0.022		
OH-14*	206-216				0.113	0.004		
OH-15	216-226				0.207	0.029	0.005	none
OH-16	226-236				0.226	0.015		
OH-17	236-246				0.132	0.013		
OH-18	246-256				0.132	0.006		
OH-19	256-266				0.182	0.015		
OH-20	266-276				0.176	0.015		
OH-21*	276-286				0.302	0.071		
OH-22	286-296				0.201	0.018	0.005	none
OH-23	296-306				0.277	0.011		
OH-24	306-316				0.201	0.020		
OH-25	316-326				0.189	0.013		
OH-26	326-336				0.277	0.022		
OH-27	336-346				0.270	0.026		
OH-28*	346-356				0.264	0.031		
OH-29	356-366				0.214	0.049	0.005	none
OH-30	366-376				0.315	0.029		
OH-31	376-386				0.252	0.053		
OH-32	386-396				0.239	0.049		
OH-33	396-406				0.333	0.033		
OH-34	406-416				0.270	0.069		
OH-35*	416-426				0.138	0.024		
OH-36	426-436				0.252	0.038	0.005	none
OH-37	436-446				0.333	0.035		
OH-38	446-456				0.245	0.071		
OH-39	456-466				0.195	0.040		
OH-40	466-476				0.157	0.022		

Prepared by George Moerlein Date June 24, 1964Checked and proofread by GAM Date 6/24/64 DRILL HOLE # OH # 1

BEAR CREEK MINING COMPANY - NORTHWEST DISTRICT
 DRILLING - ASSAY RECORD

RECEIVED

INFO.

COMMENTS

ACTION

Examination

ORANGE HILL (51-035)

State

ALASKA

Area Nabesna, Alaska

Drill Hole

OH # 1

Assay No.	Depth	Description of Sample	Date Shipped	Assay Office	% Cu	% MoS ₂ Determinations	Oz. Ag	Oz. Au
OH-41	476-486	Crushed to 1/8 inch	6/16/64	Union	0.239	0.033		
OH-42*	486-496				0.144	0.031		
OH-43	496-506				0.207	0.044	0.005	none
OH-44	506-516				0.239	0.046		
OH-45	516-526				0.264	0.060		
OH-46	526-536				0.245	0.040		
OH-47	536-546				0.226	0.049		
OH-48	546-556				0.170	0.031		
OH-49*	556-566				0.220	0.022		
OH-50	566-576				0.226	0.024	0.005	none
OH-51	576-586				0.245	0.033		
OH-52	586-596				0.201	0.020		
OH-53	596-606				0.151	0.015		
OH-54	606-616				0.214	0.038		
OH-55	616-626				0.163	0.022		
OH-56*	626-636				0.195	0.031		
OH-57	636-646				0.245	0.020	0.005	none
OH-58	646-656				0.189	0.015		
OH-59	656-666				0.207	0.029		
OH-60	666-676				0.182	0.020		
OH-61	676-686				0.170	0.015		
OH-62	686-696				0.119	0.011		
OH-63*	696-706				0.157	0.009		
OH-64	706-716				0.195	0.011	0.005	none
OH-65	716-726				0.107	0.013		
OH-66	726-736				0.302	0.018		
OH-67	736-746				0.100	0.011		
OH-68	746-756				0.132	0.006		
OH-69	756-766				0.201	0.006		
OH-70*	766-776				0.182	0.006		
OH-71	786-796	CHECK SAMPLES			0.207	0.011	0.005	none
OH-72	136-146				0.157	0.011		
OH-73	206-216				0.107	0.011		
OH-74	276-286				0.264	0.049		
OH-75	346-356				0.258	0.026		
OH-76	416-426				0.144	0.009		
OH-77	486-496				0.189	0.015		
OH-78	556-566				0.214	0.020		
OH-79	626-636				0.195	0.026		
OH-80	696-706				0.157	0.011		
OH-80A	766-776				0.207	0.009		

Prepared by

George Moerle in

Date

6/24/64

DRILL HOLE # OH # 1

Checked and proofread by

GAM

Date

Examination ORANGE HILL

Area NABESNA, ALASKA

Drill Hole OH # 2

State ALASKA

Assay No.	Depth	Description of Sample	Date Shipped	Assay Office	%Cu	%MoS ₂	oz Au	oz Ag
OH#81	23-33	crushed core	6/16/64	Union	0.252	0.006		
82	33-43				0.359	0.080		
83	43-53				0.113	0.006		
84	53-63				0.144	0.006		
85	63-73				0.252	0.029	0.00	5 None
86	73-83				0.327	0.064		
87	83-93				0.447	0.022		
88	93-103				0.201	0.013		
89	103-113				0.352	0.020		
90*	113-123				0.346	0.022		
91	123-133				0.630	0.017		
92	133-143				0.201	0.066		
93	143-153				0.214	0.015		
94	153-163				0.226	0.015		
95	163-173				0.233	0.017	0.005	None
96	173-183				0.252	0.017		
97	183-193				0.296	0.015		
98	193-203				0.245	0.033		
99	203-213				0.529	0.020		
100*	213-223				0.075	0.086		
101	223-233				0.201	0.015		
102	233-243				0.245	0.011		
103	243-253				0.365	0.031		
104	253-263				0.289	0.035		
105	263-273				0.327	0.037	0.005	None
106	273-283				0.441	0.133		
107	283-293				0.132	0.011		
108	293-303				0.132	0.004		
109	303-313				0.189	0.011		
110*	313-323				0.163	0.009		
111	323-333				0.138	0.006		
112	333-343				0.081	0.006		
113	343-353				0.081	0.004		
114	353-363				0.081	0.004		
115	363-373				0.114	0.022	0.005	None
116	373-383				0.119	0.004		
117	383-393				0.201	0.024		
118	393-403				0.182	0.004		
119	403-413				0.151	0.020		
120*	413-423				0.144	0.009		

Prepared by George Moerlein Date July 3, 1964

Checked and proofread by GAM Date 7/3/64 DRILL HOLE # OH # 2

BEAR CREEK MINING COMPANY - NORTHWEST DISTRICT
DRILLING - ASSAY RECORD

Examination ORANGE HILL State ALASKA
Area NABESNA, ALASKA Drill Hole OH # 2

Assay No.	Depth	Description of Sample	Date Shipped	Assay Office	Determinations			
					%Cu	%MoS ₂	oz Au	Oz Ag
OH#121	423-433	Crushed	6/16/64	Union	0.144	0.009		
122	433-443	core			0.151	0.011		
123	443-453				0.207	0.017		
124	453-463				0.138	0.009		
125	463-473				0.144	0.004	0.005	None
126	473-483				0.151	0.009		
127	483-493				0.176	0.009		
128	493-503				0.119	0.009		
129	503-513				0.151	0.004		
130*	513-523				0.044	0.002		
131	523-533				0.037	0.017		
132	533-543				0.056	0.009		
133	543-547				0.044	0.006		
		CHECK SAMPLES						
134	113-123				0.182	0.022		
135	213-223				0.195	0.120		
136	313-323				0.094	0.011	0.005	None
137	413-423				0.069	0.006		
138	513-523				0.050	0.004		

Prepared by George Moorlein Date July 3, 1964
Checked and proofread by GAM Date 7/3/64 DRILL HOLE # OH # 2

E 103,000

CALIFORNIA NO 2

E 102,500

N 97,500

LEMON NO 1

LEMON NO 2
ORANGE HILL NO 2
N 97,000

OUTCROP SAMPLE MAP
ADITE "AREA"
ORANGE HILL
ALASKA

SCALE 1"=100'

BEAR CREEK MINING CO. - ALASKAN OFFICE

DRILL LOG OH # 2

AREA Orange Hill, AlaskaLOCATION Base west side Orange HillOWNER: SURFACE Alaska-Nabesna Corp.MINERALS Alaska-Nabesna Corp.

COORDINATES _____

COLLAR ELEVATION 2940 approx.TOTAL DEPTH 547INCLINATION -45° DIRECTION S70EDATE COLLARED 5/30/64DATE COMPLETED 6/6/64LOGGED BY GAMOVERBURDEN 0 TO 23

NX _____ TO _____

BXWL 23 TO 547

AX _____ TO _____

EX _____ TO _____

TOTAL CORE REC. 100%TOTAL SLUDGE REC. none

SUMMARY OF ASSAY DATA Hole averaged 0.209%
Cu; 0.019% MoS₂; 0.005 oz/T Au; and no
Ag. Best Cu assay - 123-133 - 0.630%.
Best MoS₂ assay - 273-283 - 0.133%.

ROCK TYPE	DEPTH	ALTERATION	SULFIDES	REMARKS
Overburden	0-23			Talus
quartz diorite	23-366	Variable, but mostly chl-bi. Loc. strong pink feld. Ser. & ep loc. abund.	133% py 1% cpy minor moly.	75% of qtz veins dip subparallel to axis of core.
meta basalt	366-371	Bi rich with ep blebs.		
quartz diorite	371-547	Same as 23-366.		

DIAMOND DRILL LOG - SCALE: 1" / 50'

ASSAY DATA	GEOL.	DEPTH	DESCRIPTION	%CPY	%PY
% Cu					
1.00 2.00 1.00 0.03 0.02 0.01					
% Mo					
		0	Overburden - talus		
	qtz dr	23	10-15% bi, 0-5% chl, 0-5% ep blebs. Some pink feld.		
	"	40	3-5% qtz-gyp veins with flecks moly.	1-1	2-4
	"	49	30% bi, 30% ep. 5% qtz veins with moly flecks.	1	2-3
	qtz dr		5-10% bi, 5% chl, minor ep blebs, some pink feld. Ser. along qtz veins. 3% qtz-gyp veins with moly flecks.	minor	1-3
	qtz dr	82	10% bi, 5% chl, 2-3% qtz-gyp veins with moly flecks.	1-1	1-3
	"	99			
	qtz dr		5-10% bi, 5-10% chl, 1-2% ep. Occas. 6" zones of strong ep-bi alt'n with 3% py, 3% cpy. 1% qtz-gyp veins with flecks moly.	1	1-2
	"	138			
	"	146	Strong ep, chl, ser. 1-2% qtz-gyp veins with moly.	1	1-2
	qtz dr		5-15% bi, 5-15% chl, minor ep and ser. occas. 6" zones gyp-pink feld(?). Increasing ep, cpy lower 6'. 1% qtz-gyp veins with moly flecks.	minor	1-2
	"	183			

qtz dr		5-15%bi, 5-15%chl, minor ep and ser. occas. 6" zones gyp-pink feld(?). Increasing ep, cpy lower 6'. minor 1% qtz-gyp veins with moly flecks.	
"	183	Strong chl, ser, bi, pink feld, 2-3% qtz veins.	1
"	189	5-15%chl, 5-15%bi. Some ser&pink feld. 1% qtz vein.	minor
qtz dr		gen. strong chl with pink feld(?). Bi and ep loc. abundant. Text. destroyed. 1-2% qtz-gyp veins with moly flecks.	/1-1
qtz dr	227	same as above except more ep.	minor
qtz dr	254	10-20%bi, some ser, chl, ep. Some pink feld. 2% qtz-gyp veins with moly flecks.	/1-1
qtz dr	271	Strong chl, bi, pink feld, ser. 2% qtz-gyp veins with moly flecks.	/1
qtz dr	285	10-15%bi, 10-15%chl, some ep, ser. Loc. strong pink feld. 2-3% qtz-anhy veins with moly flecks.	/1
qtz dr	320	10-15% bi, 10%chl, some ep, ser, pink feld. 2-4% qtz-Anhy veins.	minor
qtz dr	343	5%bi, 5-15%chl, 3-5%ep blebs, some ser and pink feld. 2-4% qtz-anhy veins.	minor
"	358	10-20bi, 5-10chl, 2% ep blebs. 1-2% qtz veins.	minor
bs	366	bi rich. ep blebs. 5% qtz-anhy veins.	minor
qtz dr	371	5-10%bi, 10-20% chl, 40-50% ser. 2-4% qtz-anhy veins.	minor
qtz dr	385	10-20%bi, 5-10%chl, some ser, ep blebs, and pink feld. 2-4% qtz-anhy veins.	/1
qtz dr	420	10%bi, 5%chl, ser. along qtzveins. 3-5% qtz veins.	/1
qtz dr	449	Same as above. sulfides in and along qtz veins and fractures.	/1
qtz dr	468		
qtz dr		5%bi, 5%chl, 1-3% qtz veins which are sericitized along margins. Rock looks quite fresh. Sulfides along cracks.	minor
	547	BOTTOM OF HOLE	

BEAR CREEK MINING CO. - ALASKAN OFFICE

DRILL LOG OH # 1

AREA Orange Hill, AlaskaLOCATION Bottom west side of Orange HillOWNER: SURFACE Alaska-Nabesna Corp.MINERALS Alaska-Nabesna Corp.

COORDINATES _____

COLLAR ELEVATION 2940 approx.TOTAL DEPTH 786INCLINATION 45° DIRECTION S70EDATE COLLARED 5/13/64DATE COMPLETED 5/28/64LOGGED BY GAMOVERBURDEN 0 TO 76

NX _____ TO _____

BXWL 76 TO 786

AX _____ TO _____

EX _____ TO _____

TOTAL CORE REC. 100%TOTAL SLUDGE REC. none

SUMMARY OF ASSAY DATA Average 0.201% Cu,
0.025% MoS₂. Best Cu - 106-116 - 0.39
Best MoS₂ - 126-136 - 0.075%. Average
0.005 oz Au. No Ag.

ROCK TYPE	DEPTH	ALTERATION	SULFIDES	REMARKS
Overburden	0-76			River gravel and boulders
Quartz Diorite	76-136			
Meta-basalt	136-178	Mod. bi and chl.		75% of qtz veins
Quartz Diorite	178-253	Weak ep. except 1-4% Py along shears where 1-2% cpy		dip sub-parallel to axis of core (within 30°). Strikes variab
Meta-basalt	253 - 271	abundant. 1-4% qtz- minor MoS ₂ gypsum veins		
Quartz Diorite	271- 786	changing to qtz- anhydrite veins		
		below about 450'.		

DIAMOND DRILL LOG - SCALE: 1"=50'

ASSAY DATA	GEOL.	DEPTH	DESCRIPTION	%CPY	%PY
% Cu					
3.00 2.00 1.00					
0.03 0.02 0.01					
% Mo					
		0			
			Overburden, talus and river gravels.		
		76			
	qtz		25% bi, 4% chl, 1% ep. 1% qtz-gyp veins.	minor	2-
	dr		Sulfides in smears, specks & veinlets. Minor moly.		
	"	115	Shear zone. Loc. all ep. loc. all qtz.	"	5-
	"	124	Strongly bleached and sericitized.	"	2-
	"	136	Broken and fractured. Mod-strong chl, ep, ser. 5% qtz-gyp veins with noticable moly.	"	2-
	Meta		Strong bi, cut by bi-alt. qtz dr with ep blebs.		
	bs		2-4% qtz-gyp veins with flecks moly.	"	1-
		178			

		qtz dr		15-30% bi, 0-10% chl, 2-3% ep. 2-4% qtz-gyp veins with flecks moly. Sulfides in smears and diss. specks.	/1-1	2-
		meta bs	253	Bi rich. 2-3% qtz-anhy. veins.	minor	1-
		qtz dr	271	30% bi, 2-3% chl, 2-3% ep. 2-3% qtz-gyp veins with flecks moly.	/1	2-
		meta bs	291	Bi rich, 5% ep, some chl. 2-3% qtz-gyp veins with flecks moly.	/1	2-
		qtz dr	304	20% bi, 5-10% chl, some ep. 2% qtz-gyp veins with flecks moly.	/1	2-
		qtz dr	325	30-40% bi, 5% ep, 5% qtz-gyp veins with flecks moly.	/1	2-
		"	346	20-30% Bi, minor ep, chl. 2-4% qtz-gyp veins.	/1	2-
		"	356	Strong ep-chl. Texture gone. 2-3% qtz-gyp veins	/1	2-
		qtz dr		20-30% bi, 5-10% chl, 2-3% ep blebs. 2-3% qtz-gyp veins with moly flecks.	/1-1	1-
			412			
		qtz dr		10-15% bi, 5-10% chl, 1-3% qtz-anhy veins with flecks moly. Occas. $\frac{1}{4}$ " veinlet magnetite.	/1-1	1-
		qtz dr	459	Same as above. Some mt in qtz veins. loc. mod. ep. some pink feldspar(?) alteration.	/1	1
		"	478	10-15% chl, 10-15% bi, 5% ep. Some pink feld.	/1	1
		qtz dr		10-20% bi, 5-10% chl, 2-3% qtz-anhy veins with flecks moly and some mt.	/1-1	1
			570			
		qtz dr		5% bi, 0-5% chl. Some primary bi. 1% qtz veins with some magnetite.	/1	/1

Geochemical Sampling Orange Hill Nabesna Quad, Alaska

1" = about 4000'

o 6127 — Sample Location
and Number.

	Cu PPM	Mo PPM	Zn PPM
	0- 75	0- 2	0- 75
	76- 150	3- 5	76- 150
	151- 300	6- 10	151- 300
	301- 500	11- 25	301- 500
	>500	>25	>500

Analyses by Rocky Mountain
Geochemical Lab.

Samples Collected by
Hawkes and Moerlein

Base map traced from photos,
not corrected for distortion.