Original geologic core logs, sample records and corresponding assay logs for the Arctic Prospect of Northern Alaska; holes no. DH-1, DH-2, DH-3, DH-4, DH-5, DH-7 and DH-8



Received January 2009

Total of 97 pages in report

Alaska Geologic Materials Center Data Report No. 358

Arctic Core at AGMC

A-1, AR-01 (2 boxes)

• 0-38' (missing 38-107' TD = 107)

A-2, AR-02 (9 boxes)

• 195-265', 285-308' (TD = 308') (missing 0-195' and sulfide zone 265-285')

A-3, AR-03 (7 boxes)

• 263-312', 322-336' (TD = 600') (missing 0-263', sulfide zone 312-322', and 336-600')

A-4, AR-04 (5 boxes)

• 117- 139', 169- 205' (TD = 285') (missing 0-117', sulfide zone 139 to 169', and 205- 285')

A-5, AR-05 (5 boxes)

• 325-347', 387-407' (TD = 417') (missing 0-325', sulfide zone 347-387', and 407-417')

A-7, AR-07 (18 boxes)

• 248-408', 448-466' (TD = 466) (missing 0-248' and sulfide zone 408-448')

A-8, AR-08 (7 boxes)

• 99-122', 137-177' (TD =177) (missing 0-99' and sulfide zone 122-137')

GMC Data Report 358 Page 1 of 97

	ALIZATION
	U C C C C C C C C C C C C C C C C C C C
Composition Composition Composition Color Grain Size Shape Color Grain Size Shape Color Grain Size Shape Color Grain Size Shape Color Grain Size	Chalcotit Barnite C CuCoa Limestone Dolomite Lime. Dol Dol. Clasi Phyllise C. Vn. D. Vn. Q. Vn. Q. Vn. Assay.
Mark Respective State Contract State	

PROJECT: Ruby Creek, Alaska Hole No. A-/ Intervo	I To 8	Collar Elev.	7 9Z Inclination	VERT. Bearing	Logger A. Joh	0500 Date Aug / 67 Sheet No. 1 0 + 2
GRAPHIC LOG ROCK	S CLA	ASTS FILL	INGS	ALTERATION	MINERA	LIZATION
Grabhic Followsition Color Composition Color Grain Size Composition Color Color Composition Color Color Grain Size Composition Color Color Grain Size	Access Fossils Wisc. Feat.	Resol Resol Calcite Dolomite Quartz Other	Grain Size Spec. Features Width Calcit. Dolomit. Oxidation Porosity	Limestone Dolomite Argillite Replacement Rexlization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C.	Bornite C. CuCos Limestone Dolomite Lime.Dol. DolClast Phyllite C. Vn. D. Vn. O. Vn. Assay.
colcaroous majoriol. @ 55.0 Odrk highly takesse @ 57.0 Same as 47.8' 12 @ 55.5 Simular to above well developed to go	te. dark heem along proreous to motorial e jand locally like angers consenareous N N N N N N N N N N N N N	1-3 V c/u-fer materia	s of coleaneous A throughout core	hroughout core after yestic material and is one so tons produce unky appearance. Interse oxidation elleachin of pyritic material pyrite forms as irregular to eachedic grains and cluster		ellen enhedred somm southered ny telestors form southered ny telestors form southered ny telestors form southered ny telestors form southered no telestors form southered Nassour Called Albertal Southered no telestors form southered porte of an electrical form southered no telestors form southered southered no telestors for ended to so first.



DJECT 003-00-0013 - Arctic

ASSAY LOG

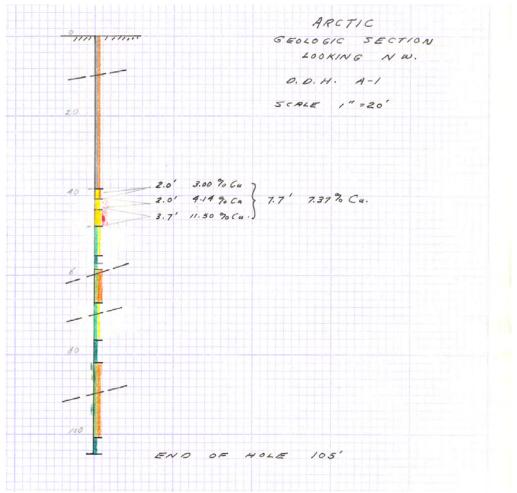
* Union KCC

									NCC		
SAMPLE	SAMP	LE INTE	ERVAL				ASSAY				
NUMBER			FEET	Cu	Pb*	Zn	Ag	Au*			
71075	38.5	39.5	1	0.63		0.05	6.26	0.125			
71076	39.5	41.5	2	3.00		0.06	0.57				
7.107				2.96*		1.00*	0.6*	0.010			
71 077	41.5	43.5	2	4.14		38.56	1.27				
				4.25*		3.76*	1.2*	0.025			
71078	43.5	47.2	3.7	11.50		6.13	2.57				
				11.81*	1.2	11.68*	3.2*	0.030			
71079	47.2	50.0	2.8	0.06		0.10	0.17				
71080	50.0	52.0	2	0.02		0.02	0.13				
71081	52.0	57.0	5	0.06	A SANSAN AND AND AND AND AND AND AND AND AND A	0.07	0.17				
71082	57.0	61.0	4	0.03		0.01	0.13				
			1								

			-								
			1								
			-								
								 			
			+								
			-					-			
		-									
									-		
		1 2 2	-								
			-			-					
			-					-			
			-								
						-					
								-			
			-								
			-							1	
			-			-		-			
						-		-			

BC 12-66

GMC Data Report 358 Page 4 of 97



	NORTHWEST DISTRICT	NAME A	KETTE		DRILL HOLE	NO	PAGE / OF
	Summary Drill Hole Log	CODE (2)	~0120073		BEARING UE	KTICAL	IP
F	Purpose of hole TEST	DOWNOIP for	on cupuf: ou	tempping	LOCATION	4.5	
	Zone					105	BY CGB
1	E1-2990	4					
	Scale: "= <u>20</u>		Est. of final depth	105	START 8/	complete complete	ETED 8/3/67
	2 4 6 8 \$0 62	5,1vev 2 4 6	ZINC	1 2 3 4	Au	Rem	arks
(2990) 0	2 4 6 8 70 62	2 4 6	2 4 6 8 10 12			aruphitic a	
(100)							
(2970) 20			1				w
			+				
	pead tak	schin					
	sead fal						
(2950) 40	1 9					Tulques	
-100 40						CP, Py, Sp	T Muse schist
	- 47.5		Inffilorite		-	Green Bluffs	Chlorite Schist
			is as the	loc.		unit.	
(2930)60 -		6	affillor Dell				
(200)	4 10	green.	John Gille				
	Diche	1 9 - + 15	GEO			!	
	A de	Schis					*
691080 -							
(25-0)							
60							
(2890) 100-							
6							
(2870)120-							
146-							
160-							
	2						De l'
	<u> </u>						
180							

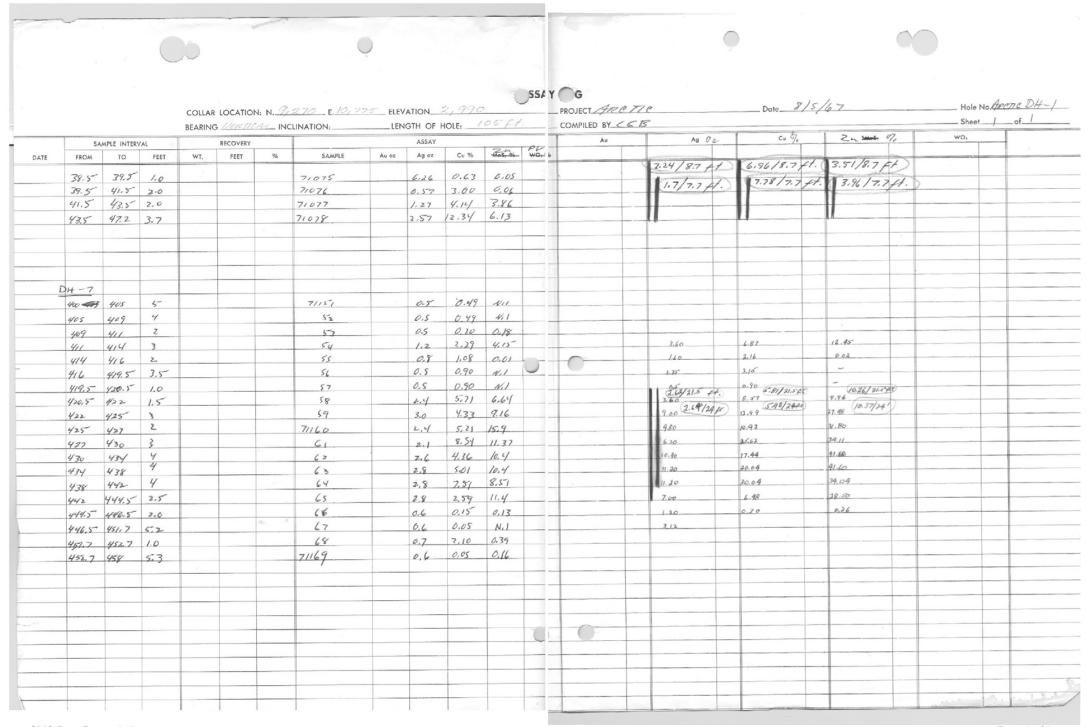
SAMPLE RECORD

E1 2990

PROJECT: ARCTIC WORKING PLACE: DH -/ SAMPLER: DATE / 67

Sample	ple		True	-ce		1	9	2.	a	A	en	Pr	1,-	Chan.		
Number	Location	Length	Width	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Size	Wt.	Remarks
1075	38.5-39.5	1.0	,50 105	0.63		6,26				0.110		- 1				
1076	39.541.5	1/4 to 510	6.00	3.00		0.6	1.2	0.06	2.00	0.065						
	41.5-43.5	0.2 5.0 MM	8,28	4.14		1,2	1.2	3.76	7.80							
	43.5-47.2	7.8 3.7	42,55	11.14		3, 2	10.4	11.60	42,92							
1079	472-50.0	2.8		0.06		2,5 7,	10.4									
	50,0-52.0	2.0		0.02												
	52.0-57.0	5.0		0.06												
	57.0-61.0	4.0		0.03												
-			Cu	7.4	6 %											
	39,5-47,2	7.7 4	Zn	6.8	1 90											
		1 /	19	2.0	03									7 - 1		
		1	0		0											
	Degen	hait show	7/075	0.78	7	6.40		7.*		0.110						
			71076	3.69		0.50		0.20		0.065						
			71078	4.46		4.										
			71078	11.44		2,86		10,79								
																*

Summary Drill Hole Log Purpose of hole	CODE Archic	BEARING	DIP	
Scale: I" = 50'	Est. of final depth	TOTAL DEPTH.)
Typical so Honogenesu	el A-1 log - what FOR. il muse chlorid, se s, featurelless - dips	hist.		1
soft-preery	cetie - light, green.			
150-				
*			*15	
			Charles Charles Charles	



9,282 N 10,615 E 2,990 E1. PROTECT Arctic 05-00-0013

HO. NO. DH - 1

ASSAY LOG

* Union

Depth				J11	o le			KCC		-	
SAMPLE			1		Oz/To		ASSAY			1	
NUMBER	FROM	TO	FEET	Cu	Ag	Zn	Au*	Pb *			
											1
			1.0			0.05					1
71076	2950.5					1.00%	0.010	nil			
		41.5				0.06					
71077	41.5	43.5	2.0	4.25%	1.2*	3.76*	0.025	nil			-
				4.14	1.27	38.56					-
71078	43.5	2842				11.68*	0.030	1.2	-	-	-
		47.2		11.50			-				
71079	47.2	50.0	2.8	0.06	0.17	0.10			-		-
71080	50.0	52.0	2.0	0.02 0.06 0.03	0.13	0.02			-	-	-
71081 71082	52.0	57.0	5.0	0.06	0.17	0.07					
11002	3/.0	01.0	4.0	0.03	0.13	0.01					-
										-	-
									-		
						-	-			-	
	•										-
											-
						-					
										-	-
					-				-		-
			11 V								1
			1								
						-					

PROTECT	ARCTIC	
HOLL NO	. DH-1	

ASSAY LOG

SAMPLE	SAMP	LE INT	ERVAL		cease	port	ASSAY				
NUMBER		1	FEET	Car	Ag	Zn	Au	194			
71075	38.5	39.5	1.0	0.63	6,26						
71076	39.5	41.5	2.0	3.00	0.57	0.06					
	41.5	43.5	2.0	4.14	1.27	3.86					
71078	43.5	47.5	3.7	12.34	2.57	6.13					
71079	47.2		2.8	0.06	0.17	0.10					
71080	50.0	52.0	2.0	0.02	0.13	0.02					
71081		57.0		0.06	0.17	0.07					
71082	57.0		40	0.03	0.13	0.01					
1100	7,10	0170	1	0,00	0.10						
		1									
		1									
		1	1								
			1								- A
71075				-			,125				
76				296.	0.6	1.00	010				
77				1102	1.2	3,76	,025				
78	-		-	4.25	3.2	11.60	,030	1.2			
79	-	1		11,01	200	11600	1000	1.2		-	-
71080		-	-					-	100000	-	-
8/										-	-
82			-			-		-		-	
12		-	-						-		-
		-	-						-	-	-
		-	-					3	-	-	-
		-				-		-		-	-
		-							-	-	-
		-							-	-	-
										-	-
			-							-	-
										-	
											-
				4							
									4 -		
				1							
	-					-					

Arctic PROJECT: Ruby Creek, Alaska	Hole No. 4-2. Interval	То	Collar Elev. 3076	Inclination VERT. Bearing	Logger A Johnson Date Pub. 1967 Sheet No. 10 f @
GRAPHIC LOG	ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0	Composition Color Grain Size Composition Color C	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillire Replacement Rexization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. Bornite C. CuCo ₂ Limestone Dolomite Lime.Dol. DolClast Phyllite C. Vn. D. Vn. G. Vn. Assay.
A CONTRACTOR OF THE CONTRACTOR	5 feared grants peblic Congli - inequiar w. 5 flocors plates in the gr. chloritie scholar in grants for the scholar in gr	1 diam 100 5	2) V seathered cluster calcareous materia	s of Arough core	

PROJECT: Ruby Creek, Alaska Hole No. A-Z Interval	To	Collar Elev. 3076	Inclination VERT: Bearing	Logger A. JOHNSON Date HUG. 1967 Sheet No. 2 of G	D.
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION	
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 "Undination of the position of the posit		% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexlization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. CuCo; Limestone Dolomite LimeDol. DolClast Phyllite C. Vn. D. Vn. Q. Vn. Others	Est. Assay.
Ans. Quarteose - Muscovite Schist quarte forming integulor blotches	a sugary us. Similar c well defined light: lish brown white quarte of Chiritic clusters fine grained		scottered pits of oxidation (jarosita) throughout core of der solphida (pyrita)	(1) (b) Section of supplied grows section	

PROJECT: Ruby Creek, Alaska Hole No. 4-2 Interval	To	Collar Elev. 3076	Inclination VERT Bearing	Logger A: JOHNSON Date ADE: 1967 Sheet No. 3 of (9)
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Using 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	% Color Color Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rex lization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Galena Pyrrh. Chalcocite C. GuCos Limestone Dolomite Lime.Dol. DolClast Phyllite C. Vn. O. Vn. DolClast Est.
19	egary inotorx. g Talcose. gray due may also be ctial locally ms integralar	% DO OO	V produces pitted and punky rock.	8 3 4 0 8 E 0 8 0 2 5 0 8 0 8 1 0 8 0 8 1 0 8 0 8 1 0 8 0 8 1 0 8 0 8
20 Some as above but roomse				25. It is some as above but increasing the py the standard of

PROJECT: Ruby Creek, Alaska Hole No. A-2 Interval 240	To 320	Collar Elev. 3076	Inclination VERT Bearing	Logger A. NOMNSON Date AUG 1967 Sheet No. 4 of A
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logic Description 1"=10' Second Description Second Description Second Description Second Description Second Description Access Fossils Misc. Feat.	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. CuCos Limestone Dolomite Lime-Dol. DolClast DolClast C. Vn. D. Vn. Others Est.
50 60 70 80				
17) P 290 5 m, low to above but becoming more sitionous. 70 P 297 Quarteose Obtained Schief, weak development of tale along foliotion, 60-80 quartz, locally foliation tavelly.	5,			<1 > scottered orans
END OF HOLE (2308'			

13 office

05-01-0013
PROJECT ARCTIC
HOLE NO. DH-2

ASSAY LOG

						ASSAY I	.UG					
					C	markey		ACCAN				
	SAMPLE							ASSAY				
	NUMBER			FEET	CH	Ag	24	Au	P6			
	7/255			3,5	2.14	1.93	4.30					
	7/256		252	2	0.78	0.72	0.13				-	-
	71257	252	255	3	0.14	8,55	16.37					
	71258		267.3		17.81	9.46	14.48					
	-				16,75		13.7/					
	7/260	269,3			5.76	5.31	7,27					
	7/26/	271.3			8.32	10,98	12.83					
	7/262				0.96	0.72	0.10				1	
	71263	215,3	7/8	2.7	0.79	0.76	0.10					
			-									
	-			Cu		Ag	ZN	Au	Pb			
	71255			2.12	盡	1.1	3.96	0.020	0.8			
a laway	256				114							
Wir.	256				田南							
assay	258			17.64	14000	606	14.95	0.035	1.7			
Union	259			17.39	-5-0	7.4	11.68	0.025	1,8			
	260			16.53		9.8	11.59	0,135	1.4			
	261			3.64		4.3	5,69	0.035	1,3			
	262			8,27		9.0	9,76	0.075	1.3			
	263											
							4					
											-	
											-	
											-	
											-	
							-				-	
									-		-	
					-					-	-	
				-						-		
												1
					-							
									-		1	
											1	
											1	
											-	

DJECT 003-00-0013 - Arctic

ASSAY LOG

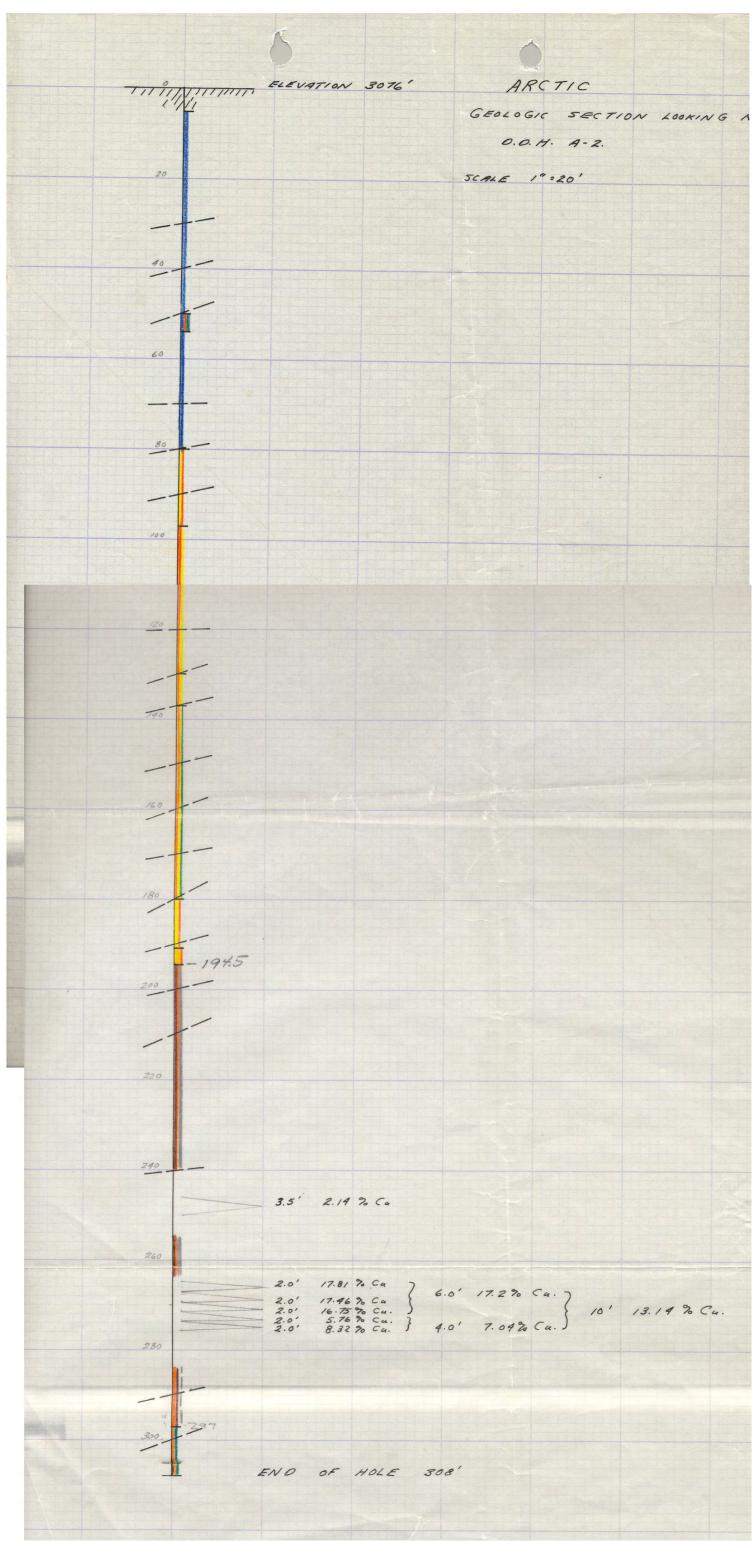
* Union KCC

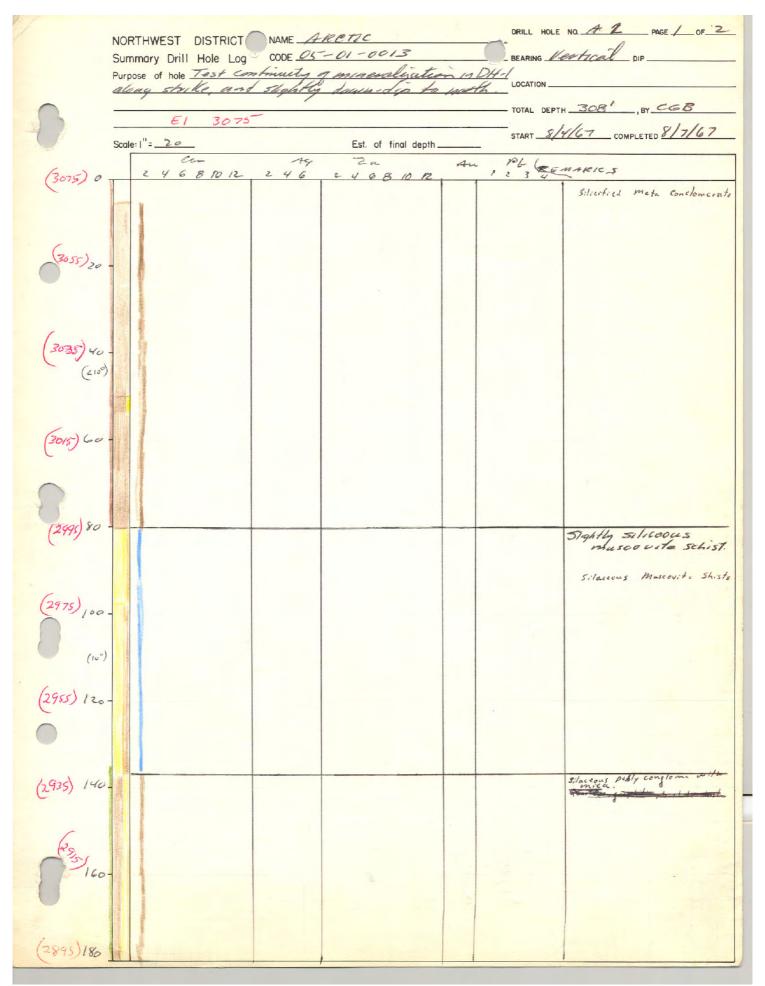
SAMPLE	SAMP	LE INTE	ERVAL				ASSAY			
NUMBER	FROM		FEET	Cu	Pb*	Zn	Ag	Au*		
71255	246.5	250	3.5	2.14		4.30	1.93			
7.200				2.12*	0.8*	3.96*	1.1*	0.020*		
71256	250	252	2	0.78		0.13	0.72			
71257	252	255	3	0.14		0.09	0.50			
/123/	232	233		0.11					1,7,7,1	
71258	265.3	267.3	2	17.81		16.37	8.55			
/1250	200.0	207.0	-	17.64*	1.7*	14.95*	6.6*	0.035*		
71259	267.3	269.3	2	17.46		14.48	9.46			
71207	207.0	207.10		17.59*	1.8*	11.68*	7.4*	0.025*		
71260	269.3	271.3	2	16.75		13.71	12.01			
71200	207.0	27.10		16.53*	1.4*	11.59*	9.8*	0.135*		
71261	271.3	273.3	2	5.76		7.27	5.31			
71201	271.0	2,0.0		5.64*	1.3*	5.69*	4.3*	0.035*		
71262	273.3	275.3	2	8.32		12.85	10.98		1	
71202	2,0,0	2, 5.5	-	8.27*	1.3*	9.36*	9.0*	0.075*		
71 263	275.3	278	2.7	0.96		0.10	0.72			
71200	2/3.0	270								
		-	-							
									1	
		-	-						-	
		-	-						-	-
			-		-					
										-
			-						-	-
										-
									-	-
										1
		-								

El 3075

SAMPLE RECORD

PRO	JECT: ARCTIC	VORKING	PLACE	DH	1-2					SAMP	LER:_				DAT	E //67
Sample	Degenhart Location	Sample	True	C	~	A	+	2-	_	14	2-	Po	-	Chan.		
Number	Location	Length	Width	Assay	Assay Feet	Assay	Assay Feet	Z ~ Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Size	Wt.	Remarks
7/255	246,5-250	3.5	7.45	2.12	Degenhar	1.1	5,25	3.96	14.45	0.020		6.8				
7/256	250 - 252	Z	1.56	0.78	+	0.72	1.44	0.13	6.26							
	252 - 255	3	0,42	0.14		0,50	1.50	0.09	0.27							
		2	35.44 35.04 35.04	17.69		6.6	15.2	14.95	2, 22	'm av-		1.7				()
71359	2653-267.3 Q. 410 267.3-269.3 Au BISHAS FI 269.3-271.3 Pt 15.0 AS FI	2'	25 00	17.59		7.4	ed	16.37 11.68 14.48 11.59 13.71 5.69 7.27	12 15	0,025		1.8				
7/0/0	267,3-267.5 79 07077759	4 2	33.28	16,53	4,46	9.8	10,0	11.59	11.68	0.135		1,4				
11260	269.3-271.3 Pt 15.0 A5 FT 271.3-273.3 Pt 15.0 A5 FT 271.3-273.3 Ag 75.0 as Ft 273.3-275.3 Cn 131.74 As FT	3	11.40	5.64		4.3	4,20	5.69	25.30	0.135		1				
71261	271.3-273.3 Ag 75.0 oft	4	11.40	8,27		9,0	9.6	7,27	12,96	0.03	•	1.3				
71262	273.3 -275.3 Cul 31.74 As f	2	16.58	8.32	-	10,98	20.0	12.85	22.60	0.075		1.3		-		
7/263	275.3 - 278	2.7	1	0.96		0.72	-	0,10								
			1	1/1												
		1	3.17	200	3											
	10'	3	7.5	3 /	75											
		1	7.5 6	70 .	2-											
		1	1.5	2 0	Ph											
		,	6.041													7
			0.00	3 /	7		1									
					1											
			-	-		-		-		-		-	-			
			-	-	-	-		-			-	-	-	-	-	
						-	-				-					
				1		1										
1						1				1						
1			-	+		-	-	+		-	+	-	+-	-	-	

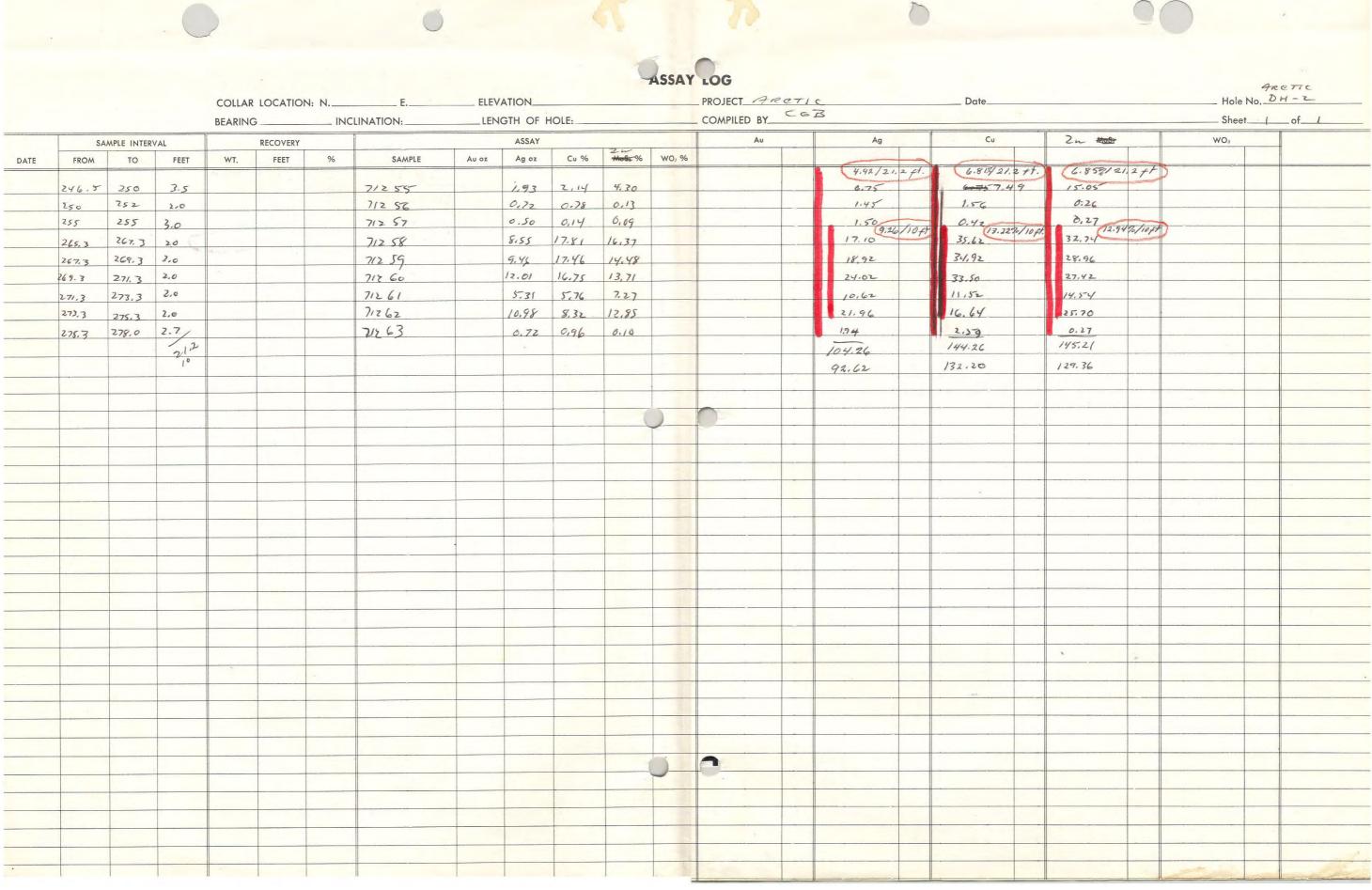




	NORTHWEST DISTRICT	NAME	HOTTE	Di	RILL HOLE	NO. 2 PAGE 2 OF 2
	Summary Drill Hole Log	CODE _05	-01-0013	В	EARING 4	ENCTICAL DIP
	Purpose of hole			L	OCATION	
	El 3078	-		T(OTAL DEPTH	308 ,BY CGB
	Scale: "=_20		Est. of final depth	ST	TART	COMPLETED
Coccel	2 4 6 8 10 12	3. 49	2 4 6 8 10 12	Au Pi		Romarks
(2895) 180	7 6 9 10 10	1	2 4 6 8 70 12	1	3 4	Silaceous muscovite saists.
(28-1						Gustage analitie histite
(5875)200	- 1					Guartzoze, graphitic, biolite skists.
(2855) 220	- 1				-	
						-72
(2835) 240						
(10)27						
				-		
₹						
(2815) 260	265					S. laceous muscovite, tale shists,
6						
(2795)280						
8						
						Quartrose Chloritic Shists, Deepgicen, coarse chlorite Schist. (Siliceous
(2775)300	-					bottom 8 ft.
(2755)320						
340						
7:						
360				-		

		NORTHWEST DISTRICT NAME Archic	DRILL HOLE NO. 4 - Z PAGE / OF
		Summary Drill Hole Log CODE	
-		Purpose of hole	LOCATION
0			TOTAL DEPTH,BY
		Scale: I"= 50' Est. of final depth 308'	START COMPLETED
	0		
	50'	Gtz-Bleb schnet grandar gtr augen	in med gr. chlorete
	100	Bedded religion cht muse, whist of perphyry with ± 40% shereal gtz - for the land with the cht. water ix. Cheavage 2 150 to the	sading in to school go.
	150		
	200'	a sharp contact muse-relied ± 150 cm	leavage.
	250'	- MISSIMS	
	300	Donk. would be approaching B/K schirt.	
0			

GMC Data Report 358 Page 22 of 97



9,588 N

1<u>0,430</u> E

3075 El. Depth at this elevation

ASSAY LOG

PROJECT Arctic 05-00-0013
HOLE NO. DH - 2

* Union

K.C.C

& Depth	at th	is ele	evatio	on			K	.C.C.			
SAMPLE	SAMP	LE INTE	ERVAL	0	z/Ton		ASSAY				
NUMBER	-		FEET	Cu	Ag	Zn	*Au	*Pb			
			3.5			*3.96		0.8			
1										+	
71256	250	252	2								
71257	252		3	0.14	0.50						
71258	28097		3 2	17.64%			0.035	1.7			
	265.3	7		17.81							
71259	267.3	269.	3 2			11.68*	0.025	1.8			
				17.46	9.46	14.48					
71260	269.3	271.	3 2			11.59*	0.135	1.4			
				16.75	12.01						
71261	271.3	273.	3 2			5.69*	0.035	1.3			
		6		5.76		7.27					
71262	273.3	2799				9.36*	0.075	1.3			
		275.3		8.32							
71263		278	2.7	0.96	0.72	0.10			-	-	
	-								-		
										-	
			-				-				-
	-									-	
							-				
	-										
	-										
									1	-	
									ļ		

PROJECT: Ruby-Creek, Alaska Hole No. 4-3 Interval 320	То	Collar Elev. 2985	Inclination VERTICAL Bearing	Logger A. JOHNSON Date 406. 1967 Sheet No. 5	of (3)
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION	
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Logical Size Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexlization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal, Galena Pyrrh. Chalcocite C. CuCo ₃ Limestone Dolomite Lime.Dol. DolClast Phyllite C. Vn. D. Vn. Q. Vn. Q. Vn.	Est. Assay.
P 32 2. O Limy Quarteoso Tole. med vaned soggery glas, tole confine of lake-risk schief. 1/04 materials com, lake-risk schief.	well ed some				

The state of the s	APHIC LOG	ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Levell, professores trade professionale. 6. 16. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		u u u u	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexlization Other	
Leady systements back precisions to B. 1881 Mester, two ground lany State Mester, two ground lany State Mester, two ground lany State Mester Manual Mester Mester Mester B. 1882 Mester Me						
Leadly applications to back predominates 6. 216.5 Mestry, exceep grand flany Section from the Med 220. 2. Long Processes State 3. Long Processes State 4. Long Processes 4. L	8	85				
Livelly appelanements hade precise marken. 1. Livelly appelanements hade appelanement of the lively appelanement. 1. Livelly appelanement appelanement of the lively appelanement. 1. Livelly appelanement appelanement appelanement. 1. Livelly appelanem						
Se State Wastre, twee ground lamy College Wastre, twee ground lawy College Wastre, twee or 18 20 20 College Wastre, twee wastre, t		@ 250 - 1.0' of soft pyritic-graphiti	c)			
State of the second day of the		I glay.				
85 85 87 87 88 88 88 88 88 88						
Geral State Grant of the Geral of State of the Geral of t		Locally prific - quartz Dands prodomina	79.			
(\$279.5 70 51 6 70 70 70 70 70 70 70		24				
(\$179.8 (70.5) (DT .				
Geral State Grant of the Geral of State of the Geral of t						
(\$277.5 Trestile Grant of the Color, the Color of the Col						
(\$279.5 70 51 6 70 70 70 70 70 70 70						
Gerale grants, the field of the state of the		35				
Gerale grants, the field of the state of the						
Construction of the Constr						
## Limp Provides Muscourie Schist ### Provides Muscourie Schist ### Provides Muscourie Schist ### Provides Muscourie Schist #### Provides Muscourie Schist #### Provides Muscourie Schist ###################################						
6 276 5 - Some 0 5 276 6. 6 277. Some 0 5 276 6. 6 283 0 Same pt 270 0 28 8 284 5 Some 0 276 5. 7 284 6 Some 0 276 5. 8 8 284 5 Some 0 276 5. 8 9 284 5 Some 0 276 5. 8 10 284 6 Some 0 276 6 Some 0 276 6. 8 10 284 6 Some 0 276 6. 8 10 284 6 Some 0 276 6 Some 0 276 6. 8 10 284 6 Some 0 276 6. 8						me de marte.
@ 280.5 Same os 270.6. @ 283.0 Same os 270.6. @ 283.0 Same os 270.0 @ 283.0 Same os 270.5. @ 284.6 Same os 270.5. ### Continued of the						
@ 2830 Same as 270.5. 38 @ 2845 Same as 270.5. 10 0 284 Same as 270.5. 11 0 284 Same as 270.5. 12 0 284 Same as 270.5. 12 0 284 Same as 270.5. 13 0 284 Same as 270.5. 14 0 284 Same as 270.5. 15 0 284 Same as 270.5. 16 0 284 Same as 270.5. 17 0 284 Same as 270.5. 18 0 284 Same as 270.5. 19 0 284 Same as 270.5. 19 0 284 Same as 270.5. 19 0 284 Same as 270.5. 10 0 284 Same as 270.5		@ 276 5 - Same as 230.0				
@ 2830 Same as 279.0 88 @ 2845 Same as 270.5. 10 Decrease Muscourte Schot. 11 Decrease Muscourte Schot. 12 Decrease Muscourte Schot. 12 Decrease Muscourte Schot. 13 Decrease Muscourte Schot. 14 Decrease Muscourte Schot. 15 Decrease Muscourte Schot. 16 Decrease Muscourte Schot. 17 Decrease Muscourte Schot. 18 Decrease Muscou		@ 279. Some 0 5 4 74.3				
88 @ 284.5 Same as 276.5. By 284.5 Same as 276.5. Declarates Muscourte Schist. Declarate of						
Ozar Linny Quartose Muscourte Schiste. Med granted, grantler, massive and scattered and confirmed to with profit developed foliation Carbonate occurs as light acomy blotches through		2 0 704 5 5 6 276 5				
med granted, granted, granter, massive unit with profit developed foliation. Carbonate occurs as light creamy blotches through core.		55 0 20 1.9 3 4 17 - 3 - 7 - 7				
med granted granted granter massive unit with profit developed foliation. Carbonate occurs as light creamy blotches through core.						
med granted granted granter massive unit with profit developed foliation. Carbonate occurs as light creamy blotches through core.						
med granted, granted, granter, massive unit with profit developed foliation. Carbonate occurs as light creamy blotches through core.						
med granted granted granter massive unit with profit developed foliation. Carbonate occurs as light creamy blotches through core.		@ zap. Limy Quartzose Muscourte Schist.	# No. 10 10 10 10 10 10 10 10 10 10 10 10 10			
occurs as light creamy blotches through		med grained, granular, massive unit				1-2 scattered and confined to
occurs as light dearny blotches through core. 314.8.516.2 - Gaudy ope of sp in 5 trans limy section, om 8 316.5 Charte Tale Quartose Schist.		with poorly developed toliation Car	bonate			
core. 314.8.516.2 - Gaudy opy of sp. in strang limy section, om o 314.5 Charte Tale Quantose Schist.			ug h			ph integalor to lighton.
314.8.316.2 - Gaudy op el sp in strong limy section, om V strong calcareous		core.				
o 316.5 Chierte Tale Quantesse Schist.						2/18 2/12 - (201/) - 1 - 1
e 314.5 Charte Tale Quantose Schist.		@				3/1.9.3/6.2
1 314.5 Charte /a/c gloon Fose 2 chis 1						5-9 V V V Calagrad To 1
well developed told particularly along to lin 4 and I zone		well developed tolo particularly alon	415	Trong carcore	7704 3	1-3 1 320.9 - 321.6 - 5 coxe ed bands

PROJECT: Ruby Creek, Alaska Hole No. 4-3 Interval	80	Collar Elev. 2985 I	Inclination VERTICAL Bearing	Logger A. JOHNSON Date Aug. 1967 Sheet No. 1 07 3
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Graphic Size sition Size Size Sition	Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexlization Other	9% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galenā Pyrrh. CuCos Limestone Dolomite LimeDol. DolClast Phyllite C. Vn. D. Vn. Q. Vn. Q. Vn. Others Est.
Company of the strongly Company of the strongly Mills of the service of application service Company of the service of the service of the service Company of the service of the service of the service Company of the service of the service of the service Company of the service of	Colon Size Size Size Size Size Size Size Size		Type	Se as it is a second of the se
(duty quartzite:) @ 74.5' Similar to above but becoming course.				
GMC Data Report 358	Isped foliofron.			Page 27 o

PROJECT: Ruby Creek, Alaska Hole No. A-3 Interval 80 To)	Collar Elev. 2985	Inclination VERTICAL Bearing	Logger A. John SON Date A46. 1967 Sheet No. 2 of S
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Graphic Log 1"=10' .5 1.0 1.5 2.0 2.5 3.0 "United and the control of the contr	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexlization Other	% E. Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. CuCos Limestone Dolomite Lime.Dol. DolClast DolClast Est. Est.
70° (mota-quartz-pebble congl?) @ 83.0' Massive Quartzose. Muscovite Schist. gronular quartz forming irregular blotch sugary micacoous matrix. Locally weak pe 78° outlines can be Lecagnized, very weakly colcarcous @ 95.0-0.3' massive gaartz. lenses? (milky w	hite quarte			
97.0'-0.3' Smixed with 20% Nery Keavily of light coloured creamy coloite. (1) 19ht coloured creamy coloite. (2) 104'- Same as above but with very light brown blotckes predominant probably were 10.	ht reddish			
becoming chloritic. Massive dense unis fine grained chloritic bands (20,5') @ 114'- Massive milky gasts. band eo 124' increasing quartertic (80-90%) quarterte with scattered misaceous becoming very weak.) almost pure			
40				

PROJECT: Ruby Creek, Alaska Hole No. 4-3 Interval 160	To <u>240</u>	Collar Elev. 2985	Inclination VERTICAL Bearing	Logger D. JOHNSON Date AUG. 1967 Sheet No. 3 of 6									
GRAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION									
Graphic Log Copper % 1"=10' .5 1.0 1.5 2.0 2.5 3.0 Luciii ation Luciin ation Luc	% Color Grain Size Shape Size Type Resol	% Calcite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Rexization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. CuCos Limestone Dolomite Lime-Dol. DolClast C. Vn. D. Vn. Assay.									
19 Our pessibly to confine control school of the school of	ay also be caused well fands fool temains to the appears ravelly a week augers - 1.km		V statte of pits Oue to leaching of Pyritic moterial.	Ver. V @ 166. pyritic section begins to. with pilled as individual opening. Closers of grains or grander some along to hadron. Else. & 400' coarse grander py. coarser py. 5 sociated with irregular bonds of fine grand of sugary guarte.									
P230.0 Same as @ 166.0		•		3-5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									

DJECT 003-00-0013 - Arctic

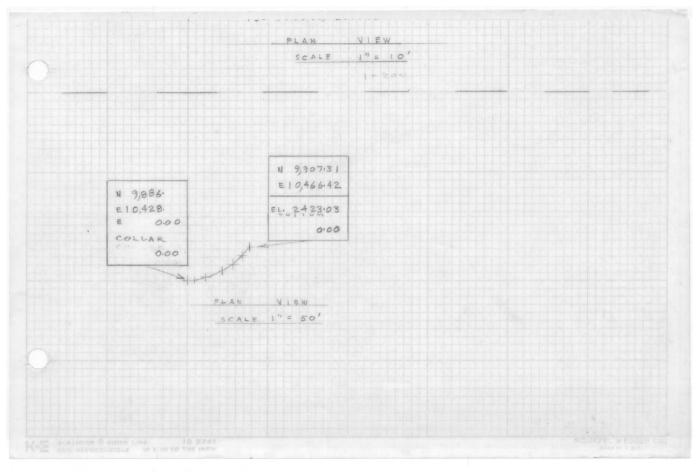
ASSAY LOG

* Union KCC

SAMPLE	SAMP	LE INTE	ERVAL	ASSAY							
NUMBER		1	FEET	Cu	Pb	Zn	Ag	Au	T		T
71083		316.2	1.4	5.83		8.23	1.44		1		1
71085	316.2	320.9	4.7	1.39		0.23	0.62				
71084		321.6	0.7	2.66		1.60	0.67				1
71086		322.0	0.4	1.24		0.41	0.41				
71 087		324.0	2	0.31		0.11	0.25				
96360	428	431	3	2.90	.012	.09	0.41	0.02			
96361	436.5	437.5	1	0.41	.002	2.15	.13	0.01			
96362	464	465	1	∠.01	401	< .01	.02	∠0.01			
96905	530	532	2	.69	.02	.03	.42			+	-
96906	532	537	5	.82	.47	1.2	.75				
											-
											-
										1	-
										-	
										-	
											-
											-
											-
											-
-	-										

FORM SP-42 (REv. 4) SURVEY TABULATION SHEET CUSTOMER BEAR CREEK MINING CO. SHEET NO. JOB NO. SURVEY ARCTIC FIELD MEASURED ANGLE OF INCLIN MEASURED COURSE DISPLACEMENT VERTICAL DEPTH DIRECTION OF INCLINATION TOTAL DISPLACEMENT CORRECTED COURSE DEV. TIME NORTH SOUTH COURSE TOTAL COURSE TOTAL ATION OBSERVED CORRECTED EAST WEST NORTH SOUTH EAST WEST 0000 50.00 150 99.90 149.90 20 30 4.36 N 64°00 E 4,36 0.12 4.36 7.03 11 39 2.47 6,37 21157 10.18 7102 10.76 28 .59 5045 N 4800 E 5.59 34 118 75 550 74.63 548.45 15.79 8°00' 6.96 N 13°00 E 4.24 21.31 38.42 50 600 49.32 597.97 N 37°30 E 5.52 ₹ E 38.42 2497.97 22° 201 East CORRECT MAG DECL 15 8 100 86°20 € 67° 20 375 66°50 55°50 475 450 56 550 350201 600 DONE BY: July 31/70

CK. BY:



GMC Data Report 358 Page 32 of 97

SAMPLE RECORD

· E1 3021

		Cample		1	4	A.		7						Chan			
Loca	tion	Length		Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Size	Size	Wt.	Remarks
314.8-316.2		1.4	8.16														
316,2-320,9	2 m 1349 4 ft	\$1.7	5,14	1.39		0.62	2.3	0.23	0.85								
320.9-321.6	Cu 15,16 4 Ft	0.7	1.86	2.66		0.67	0.5	1.60	1.12								
321.6-322.0		0.4	0.50	1.24		0.41		0.41									
322.0-324.0		2.0	0.62	0,31		0.25		0.11									
	314.8	-321.1	6	.8'	51	45%	Cu										
				1													
					1	98 2	2.										
								- 1									
			_	-	+	-	_	-		-	+	-	_	1	1		
	314.8-316.2 316.2-320.9 320.9-321.6 321.6-322.0	316.2-320.9 320.9-321.6 321.6-322.0 322.0-324.0 314.8	314.8-316.2 314.8-316.2 316.2-320.9 320.9-321.6 321.6-322.0 322.0-324.0 314.8-321.0 314.8-321.0	Location Length Width 314.8-316.2 316.2-320.9 320.9-321.6 321.6-322.0 322.0-324.0 Length Width 4.4 8.16 7.7 5.14 7.7 5.14 7.7 7.146 7.7 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.146 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	Location Length Width Assay 314.8-316.2 316.2-320.9 320.9-321.6 321.6-322.0 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6	314.8-316.2 316.2-320.9 316.2-320.9 320.9-321.6 321.6-322.0 322.0-324.0 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6 314.8-321.6	Location Length Width Assay Assay Feet Assay 314.8-316.2 1.4 8.16 5.83 1.44 316.2-320.9 213494	Location Length Width Assay Assay Feet Assay Feet 314.8 — 316.2 — 1.44 — 8.16 — 5.83 — 1.44 — 2.0 — 316.2 — 320.9 — 321.6 — 322.0 — 0.4 — 0.50 — 1.24 — 0.41 — 322.0 — 324.0 — 2.0 — 0.62 — 0.31 — 0.25 — 314.8 — 321.6 — 324.0 — 324.0 — 321.6 — 322.0 — 324.0 — 321.6 — 322.0 — 324.0 — 321.6 — 322.0 — 324.0 — 321.6 — 322.0 — 324.0 — 321.6 — 321.6 — 322.0 — 324.0 — 321.6 — 321.	Location Length Width Assay Assay Assay Assay Feet Assay Assay Assay Assay Assay Feet A	Location Length Width Assay Assay Assay Assay Feet 314.8-316.2 1.4 8.16 5.83 1.44 2.0 8.23 11.52 316.2-320.9 2.13494 Ft 1.7 5.14 1.39 0.62 7.3 0.23 0.85 320.9-321.6 2.15.16 A Ft 0.7 1.46 2.66 0.67 0.5 1.66 1.12 321.6-322.0 314.8-321.6 314.8	Location Length Width Assay Assay Assay Assay Assay Feet Assay Feet Assay As	Location Length Width Assay Assay Assay Assay Assay Assay Assay Feet Assay Assay Assay Feet Assay Feet Assay Feet Assay A	Location Length Width Assay A	Location Length Width Assay Assay Assay Assay Assay Assay Assay Assay Assay Feet 314.8-316.2 1.4 8.16 5.83 1.44 2.0 8.23 11.52 316.2-320.9 320.9-321.6	Location Length Width Assay A	Location Length Width Assay A	

		ON	ZATIC	ERAL	MIN	PPM		DE PTH*	
REMARKS	ROCK TYPE	ZN	CU	PB	AG	AU	INTERVAL	TO	FROM
10.	LT. SLICHL. MUSC. BTZ. 5CH	.09	2,90	.012	.41	102	2.4	43/	428
		2.15	.41	,002	,13	.01	1		136.5
BACKGROUND S.		4.01		2.01	,02	4.01	1	465	464
		.03	.69	,02	142		Z	532	530
	V	1.2	.82	.47	.75		5	537	53Z
					-	-			

GMC Data Report 358

05-00-0013

DATE AUG 23/70 SUBJECT ARCTIC D.D.H. # 3 SHEET NO. 1 OF 1 ILLED JUNE 1970 JOB NO.05-00-0013 CHKD. BY..... SURVEY TULY 7/70 COURSE ACCUM. OBSERVED CORRECTED INCL. X DIFFERENCE INTERVAL STATION HOR. PEV. BEARING BEARING HOR. DEV. 0' 50 - 0= 50 100' 100 150 - 50= 100 2030' N64°00' E N88°30' E 4.36 4.36 100 200' 250'- 150= 100 4° 15' N47000 E N71 30 E 11:77 100' 7.41 3.00' N69000'E 5°00' N44030' E 22.67 375 - 250=125 10.90 150' 450 N33°30' E 475' - 375-100 40 45 N 58° 00' E 30.95 8.28 150' 500' 100' 550' - 475= 75 5 45 N 23 0 30 E N48000' E 38.46 7.51 600' 45.42 600 - 550 = 50 N13000'E N37º30'E 6.96 8000

GMC Data Report 358 Page 35 of 97

Hole	Surv	rey Poin	nt		At		Deviat.		Botto	m Location	n
No.	Depth	Bear.	Inclin.	Elev.	North	East	Vert.	Horiz.	E1.	North	East
# 3	0			302110	9,886.	10.428.					
	50			2971	9.886	10.428	50.00	,			
	150	N 88 30 E	2°30'	2871.10	9.886.12	10, 432.36	199.90	4.36			
	250	N71°30E		2771.37			99.73	7.41			
	375	N69°00 E	5000	2646.84	9,892.37	10, 449,57	124.53	10.90			
	475	N 58 00'E	4° 45'	2547-18	9,8 96.76	10.456-59	99-66	8.28			
	550	N 48 00E				10,462.18	74.63	7151			
		N 37°30'E		2423.03			49.52	6.96			
					-0.						

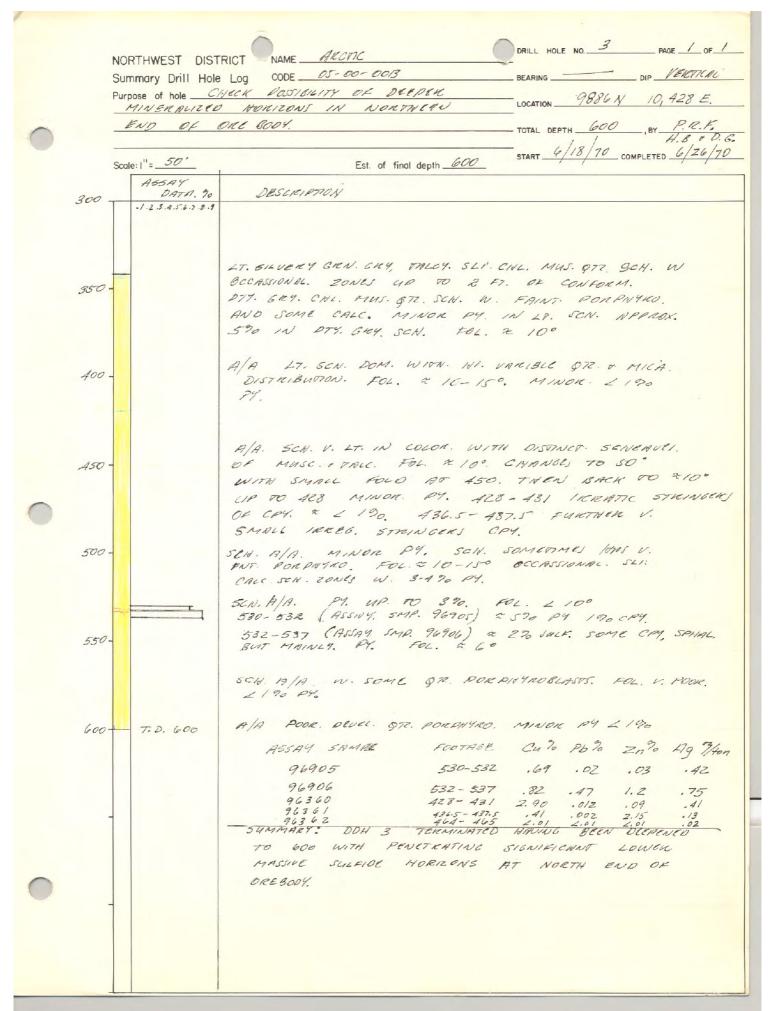
NWD Project ARCTIC No(s) #3 Data ARR Date ARCTIC Down-Hole Surveys

GMC Data Report 358 Page 36 of 97

Aberry	DDC TDC	Colora Caldenie	16.00	pain a see	20 0-
ARCHIC	_PROJECT			FRILED VE	
05-00-0013	_CODE NO.	PNY 51	CNIFICAR	IT MINER	
3	_HOLE NO.	BLIDW	ovo.	OCDTH OK	336
9,886	_NORTH		HOL	E SIZE	
10,428	_EAST	FROM	то		CONDITION
VERTICAL	_INCLINATION	336	600	BXWL	NO CASINO
	_BEARING				
6/18/70	START 7 1970 DEEPENING				
6/26/20	_COMPLETE }	PURPOSE:	TO TE	57 POSSIB	ILITY OF
600	DEPTH	DEEPER	MINE	CALIZ MOTON.	
Elmina 1	DAMA DV				600 PCLT
FIKKAN	_DATA BY			TO PENCE	19 336-7600
	ROTTURE DEEDENING				
OF OKL BE	DO NORTH END			HOUGH DDI	7 # 3 TO 2,90% CH
					CHE ENOUGH
-				OKE H	
PROJECT 05-	00-00/3 HOLE	NO. 3		SU	MMARY SHEET

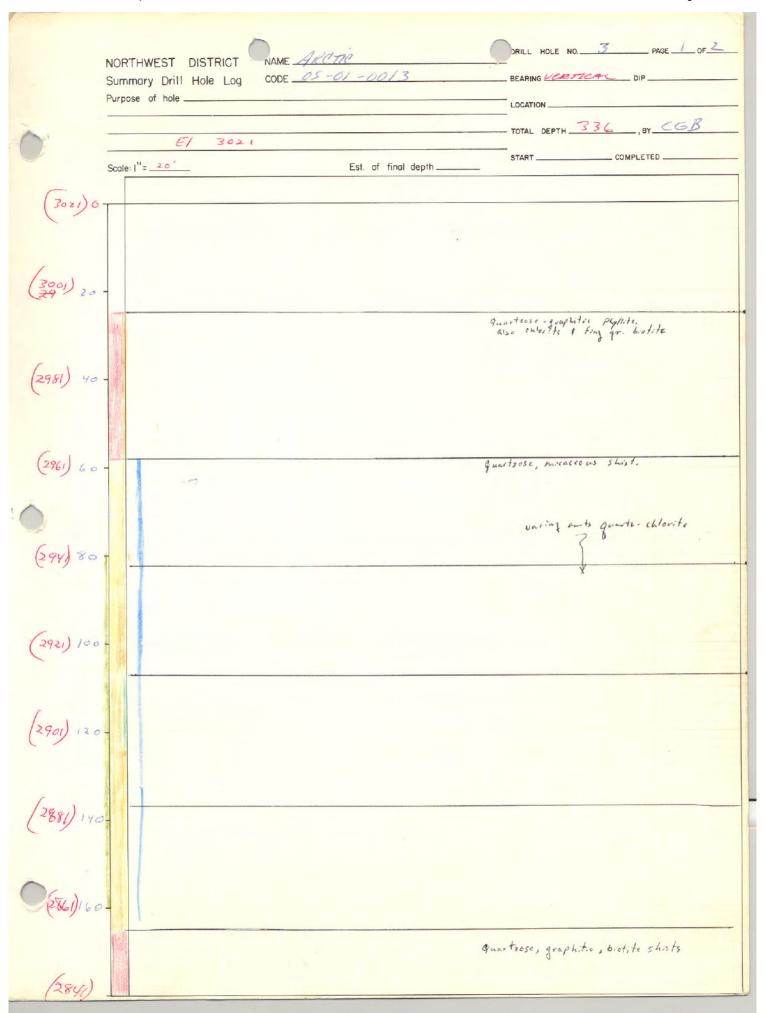
NORTHWEST DISTRIC	ONAME Arctic ORILL HOLE NO. 3 PAGE
Summary Drill Hole L	
Purpose of hole	LOCATION
	TOTAL DEPTHBY
Scale: I"= 50	Est. of final depth 263 START COMPLETED
0'	
Ne7Vite Anthon	
Aven .	ral confect.
Gradution	and conflict .
50'	hono- chla muse sileleous schut.
Clean - 1	hono- cato prese second to the time,
	inal contact,
Gradate	ener company,
100- typical	e rek. sorphyre unet
10000	
Extreme	by hono-uneithort expear just unit.
150'-	
- Tusical	Contact. home. silicerus black schirt.
	was since.
200-	
250'	
11/2 Pres	mature batton
300'-11	

GMC Data Report 358



GMC Data Report 358 Page 39 of 97

PhloR	THWEST DISTRICT	NAME _A	MECTIC		NO. 3 PAGE / OF 2
To Phil NOR Sumi	mary Drill Hole Log	CODE	of Mineraux of Mineraux North along		LERTICAL DIP
			North along	TOTAL DEP	336 ,BY CGB
Scale	E1. 30	21	Est. of final depth_	START 8,	19/67 COMPLETED 8/12/67
(3021) 0	2 4 6 8 10 12	2 4 6	2 4 6 8 10 B	P6- AL	Remarks
3001	Wite Cor	respond color	celors pres le to pres schere.	Phil-This is to Journally You must Dich selv Strip to Fi	the fash fish the feful both - hale anything that get - It's his color apt ! DK Gray quartiese mua schist
(2981) 40 - (2981) 40 -	*	DIPS			Dips ± 5-10°
(2961) 60 -					Balight grung quartiese mica schist
(25°)					
(Se.)	And the second s				Chloritic "pebbly" quartouse schiot
(292)100-					Depr plat
(29a) 120 -					
(2881) 140	-				gran quartite
C 86/160			•	::	*
(2841) 180					DK gray- Grayish bleck Graphitic school.



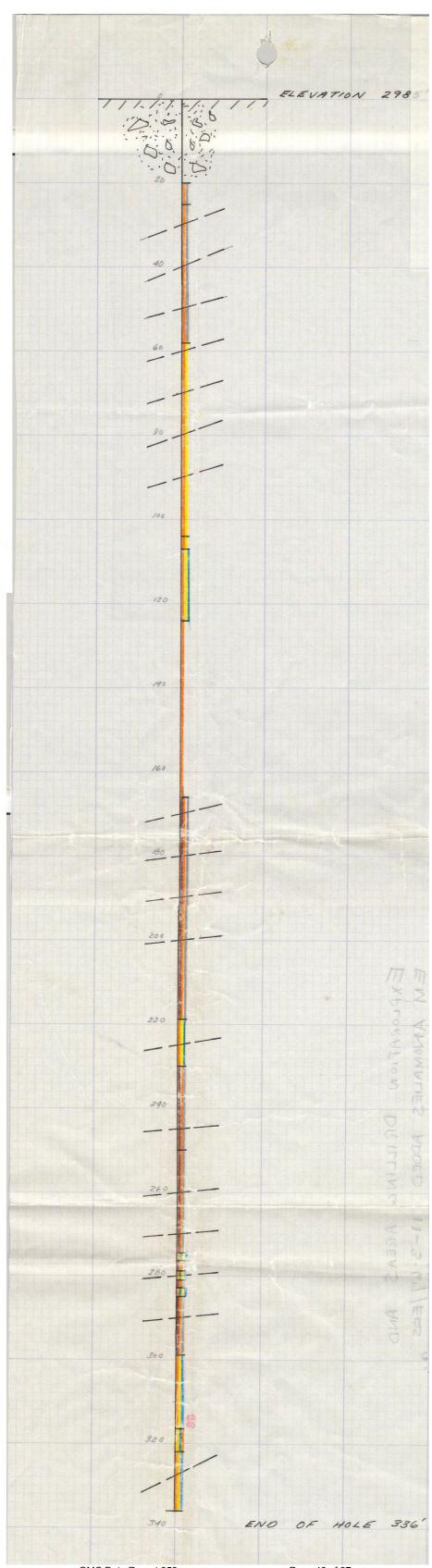
	NORTHWEST DISTRICT	NAME AR	erre	0	DRILL HOLE	NO. 3 PAGE 2 OF 2	_
	Summary Drill Hole Log Purpose of hole	CODE _05-	01-0013		BEARING	EETICAL DIP	-
	arpose of note				LOCATION	756	-
-0	E1, 3	521			_	336 ,BY CGB	-
	Scale: "=	Ag	Est. of final depth _		START	COMPLETED	_
(2841) 180	2 4 6 8 10 12	2 4 6	24681012	Au ,	P6- 2 3 4	Remarks	4
(2821) 200						Deps 5- 100	
(2801) 220						Shirts. Dick	
(2781) 240						Dine = 10 =	
(2761) 260							
(2741) 280						Limy Quartzose Museovith	
(2721)300						Limy quartiese muscovite to tale shists.	
(2701) 320 (RES) 340	A CONTRACTOR OF THE PARTY OF TH						A.
£661)360							

N	ORTHWEST DISTRICT NAME ARCTIC DRILL HOLE NO. 3 PAGE / OF_
- Si	ummary Drill Hole Log CODE 05-00-0013 BEARING DIP
	MINERALIZATION WIFT DEPITH LOCATION TOTAL DEPTH
- Sx	cale: "= 20' START COMPLETED
300 T	
320 -	
340 -	- LT. SILVERY GRN. SLI'. CHL. MUSC. QTZ. SCH. FOL. & 100 NO SULFIDES
360 -	DTY. GEY, CHE MUSE \$77. SCH. W FAINT PORPHYRO. BLASTE APPEAR. DISSEM. PY. TO \$50. SLI. CALC (UNIF. 344-345) FOL \$10° H. IRREG. \$72. + CALC VN. 348-349 345-7 419.5 LT. SWEKY GKN - CKN CHL! MUSC. \$72 SCH. CHL CONTENT QUITE VANIBLE THROUGHOUT SECTION. ARE SOME V. TALCY ZONES 1. @ 397.5, 373.5 (POSS. FLF) 376.5, 38615. FOL. 350 = 10° 380 = 5° 400 = 15° SULPIDES V. MINDE L 120 PY.
380 .	
400 -	
426 -	- DTY. CKY, CHL. MUIC. QTZ. SCH. W FRINT PORPHYROBLASSI AS IN 341-345. V. POOK. POL. SLI. CALC. SULPIDES DISSEM. CUBIC PY. UP TO 3-4% W TRACE OF CPY. (UNIT. 419.5-4285)
440 -	5CN. AS IN 345-419.5. QUITE TRICT AT 430. ₹ 434 428-435 SCN. IARS. MOTTLES STRENKING DUE TO LENSES ON LIGHT TRICY MUSCOVIR T DK CILL FOL, 430 = 10° 440 = 5°70 450 = CARNOES BERGERY, 10° → 50°
460 -	SULFIDES MINOR P9. $420.5 \rightarrow 428$ $428 \rightarrow 432$ 5THINGE V. IKKANC OF CRY, & 1 120. SMP. INSTRUMES $428-432$ $436-5$ 437.5 FURTHER V. SMALL IKREC STRINGENS OF CRY).
480	A45 - 165 V. LT. SILVERY GRN. MISC. SQW. W., DISTINCT. LENSES OR MUSCOVISE. QUITE TRICT IN PINCES 1 ⁴²⁷ FOL. 451. BRCN TO & 10° NOTE FROM & 452 -> SCRIST IDAVE FUT. PORPHYROBURETS.

Sum	nmary Drill Hole Log CODE 05-60-6013 BEARING DIP
	FORIZONS IN DEPTH. LOCATION_
Scale	e: "= 20 Est. of final depth 810 START COMPLETED
, _	
	FOR CHECK OK POSS. CP4. & SPIANC. CONTENT. SAMPLE. 462 -> 465
-	465 - 468.75. DTY, GRY, V. POOK. FOL. MUS. STT. SCH. (CMC)
	W. DISSEY. PY. UP TO 370. 465.75 → 470.5 LT. GWY GKN. V. SLI CHI MUSC- OPZ
	SCII. AS IN 445-465 FOL. = 10° SOLFIDES AS IN 445-465
	LENSES OF PY. UP TO 3-490 IN PLACES
	470.5 -> 471.8 CALL SCH. AS IN 465-465.75. 1-290 PY.
	471 -> 472 SCH. AS IN A65,75-470.5 FOL =10° FRINTLY PORPIFYROBLASTIC
	472 - 4725 CALC SCN- AS IN 465-465.75. 12 465-
-	475. 4" NEAR 90" CALL UN. OVESTO & 5"
	PAR. TO FOL. SULFIDES IN LT. SCH. + CALC SCH.
	UNCHANCED. PRIM. PY.
	472.5 - 492 LV. SILVERY CKY. CKN. SCH. AS IN. 471-> 472
1	FOL & 10-150 POSS FLT. LOW ANGLE 2100 No. 4821
-	
1	
_	
-	

GMC Data Report 358

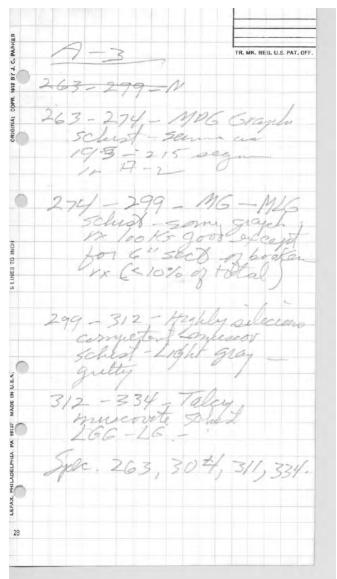
Purpose of hole _		LOCATION
		TOTAL DEPTH, BY
Scale: "= 20'		Est. of final depth
10	1 492-626	
	1 492-525	Lt. silver gray gtz musc schist with pyritic band composing Less than 1% of the rock - foliation 80 off hor
10 -	2. 525-530	Lt grayish bands of sulphides in Lt silver gray gty. muse, schists, Bands of pyrite more common - parhaps 3% of rock
30 -		Same silver gray rock as above but with Larger banks of sulphides (4"- 3" thick) with apprex 5% pyrite y
0 -	1, 532-537	Lt. Silvergray anit as # 1 above except contains approx. 2% subplices - some sphalorite & chalcopyrite but mainly pyrite
	5, 537 - 570	Lt silver gray ofty muse schist as # 1 above with 1-2% pyrite foliation 60
70 -	6. 570- 590	Lt silver gray qtz musc schist with Some qtz perphyroblasts. foliation not very distinctive. Sulphides: Nery miner pyrite pyrite < 1%
0 -	590 - 600	A/A PORPHHOBLASTS QUITE VAGUE POOR FOL. MINOR TAK. P4. 2120
4	TO 600	
1		



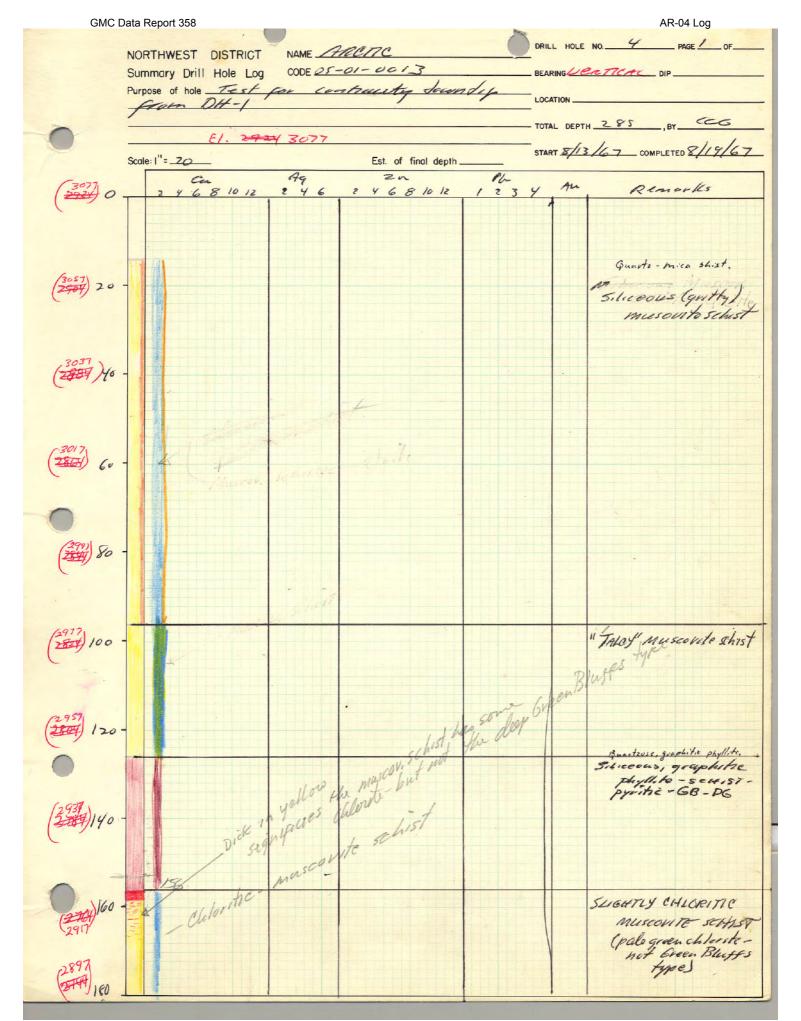
PR ECT Arctic
HOLE NO. 3 Rig 40c

ASSAY LOG

SAMPLE	SAMP	LE INT	ERVAL				ASSAY				
ULIMBER	FROM	TO	FEE1		Hrs. Se	Hing Up	Ars. W	ledains			
49-32	Dri	Ving-	Feet	Rate	or 5 to	ndby	or Surv	enina	Rem	ants	#
Date	NX	BX	AX		0 3/6	- 00	or Surv	00			77
6/12									Waterlin	e 9 her.	72.0
6/12									11	18 hes	144,0
6432					190	多处一方外			-		21610
6/13					9	Committe &	restados	Laterland			199.00
5/13					1/2	1 12	_ A) _a	21. 1			72.
6/15					3	andle.			Waterline	12 des.	149.0
6/15					1/2 7	temple	-		Waterlin		72.0
116					3 Kz	18-55			-11	2hrs	72.0
416					7	A 100			4	4 des	144.8
117					9						144.0
6/17					9						144.0
5/18		10		8.65					Otto tour -	Wille.	86,5
6/19		2.5		8.65			V		attention +.		216,2
6/21		47		8.65					ottes tour 21		406.5
6/22					1 /2						16.00
6/22		70		8.65	100			*			605.5
6/27									Deterline	Sheart.	69.00
5/23		5		8.65						- acong	43.25
		45		9.30							418.50
6/24		28		9.30							260.4
124				7, 30					Waterline ?	107	16.00
6/25		11		9.30					navening.	1000	102.30
6/26		16		9.30					460	leted TD	
7.50		1		77.5					1) or com	-	778.00
	LIII.								Tital	3.	536.0
									1		
				1							
							XT				
						-	1 2				
						1	1 4	,			
						K	3. 1				
						Γ,	, 2				
							T			- 1	
							2	1			
							MMM	0	1		
							37		1		
							-				
			1								
					3						
	1										

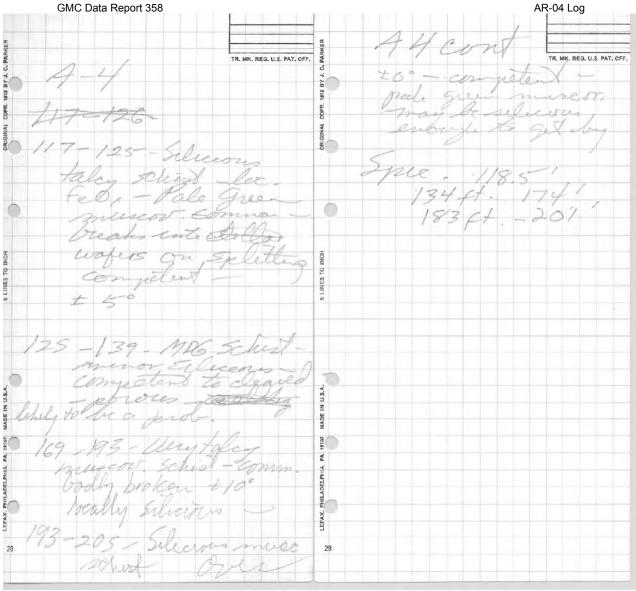


	GMC D	ata Report 358	AR-04 Log
		NORTHWEST DISTRICT NAME	DRILL HOLE NO. 4 PAGE / OF
		Summary Drill Hole Log CODE	BEARING DIP
0			LOCATION
			TOTAL DEPTH, BY
		Scale: I" = Est. of final depth	START COMPLETED
	0'1		
	50'-	Typical sil. muse chl. retirt grading into	schist sorgehyry.
		Typical entegradational sequence	
	100 -		
	150'-		
	200'-	CORE	
	250'-		
		- almost the sericitie tak facies. - All of the come at R.C. . Buttern?	
		- All of the one at R.C.	
•			
	_		
		22 可国际的现在分词主义的主义。第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	



GMC Data Report 358 AR-04 Log 0-14 - Snichlee TR. MK. REG. U.S. PAT. OFF. 126-153 DG-68-Bwt-graph? gearnety messive chlorite school - pyritic Ca +1-2% as Cpy 146.5-155 14-96- Pele green zeleceour harger Interrely oxedered Silveous muces - brotile 30xes - 10°+ Thist-dull dk-med gray Dissen , py - cpy - Sp along Lolean I 190 Cer Star 120 15855 -161 - Chlorite - mescov. and dessem Sp. 3 = 5 % Cu 161-167- Messer dessen granular py- Sp. 14 Cu 5-790 167-169 - Same as above with Cherite and see 96-126 - Pale green wh It gray how school - draw py loc. of dry - 2 ft over at 114. S - \$10, lee green speckled chlorite of (ash. 169-181 Same as 1817

GMC Data Report 358 AR-04 Loa TR. MK. REG. U.S. PAT. OFF. 243 - 2001 con ness. 181 - 208 - Muscory sened taley homon screete chlorite schest. nuescor sched. ± 100 243-251 - Minor ch. 251-253,8 1-3Cer 208-209- Deep green che school ces Cpy - consid Zs. 253.8.28 Cu <190 209-223 - White Of gray hussov school 256-285 - Selecion palo green meiscor chlorite schiet Cu ± 1% Cpy 216.5-217.5-Cu Negl. 217,5-222 ±50 dyp. Sy1-24 222-223 223-227- Muse Servert Solustore glyite Cpy, Bo, Sp, gr Core necol poor ±10°dep 227243 poor Car recor.
Gougy light Tate musers
Shirt 227-299-3-Cu 1-390



DJECT_ 003-00-0013 - Arctic

ASSAY LOG

* Union KCC

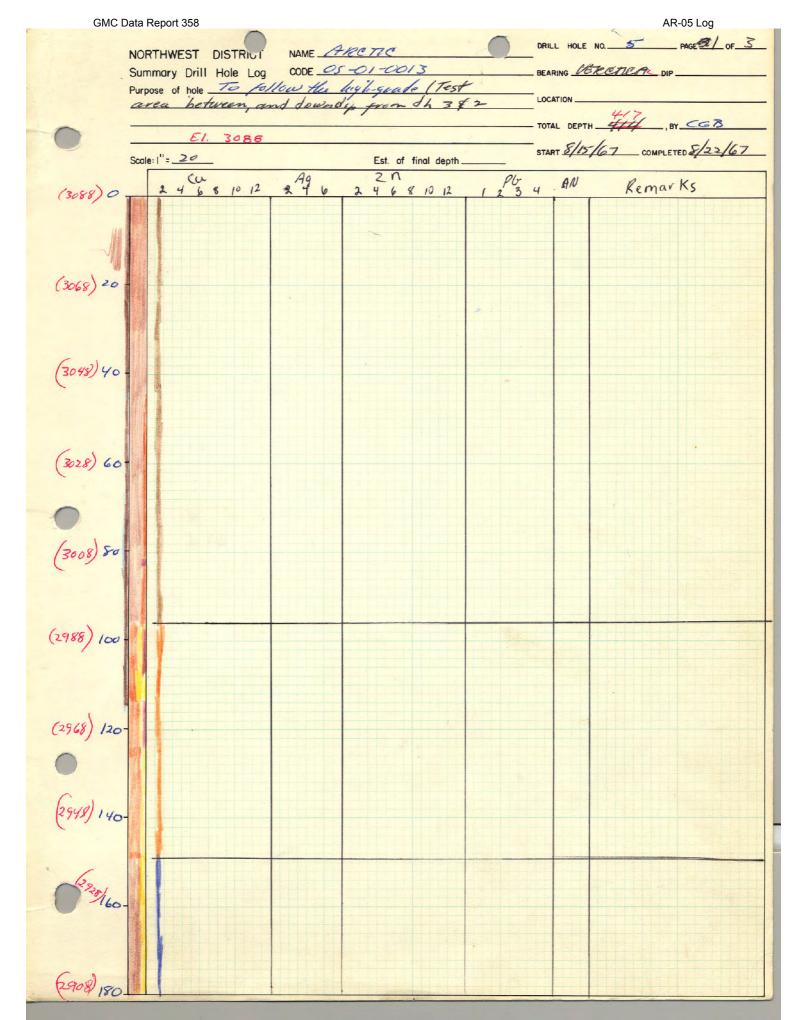
SAMPLE	CAMA	TT TAITT	ERVAL				ASSAY				
		1		-	DI.			Αu			
IUMBER	FROM		FEET	Cu	Pb	Zn	Ag	AU			-
71 291	119	126	7	0.06		0.11	0.26				
71281	141	146.5	6.5	0.08		0.08	0.35				
71282	146.5	149	2.5	1.44		0.10	0.53				
7 7 7				1,518	*			.010*			
71283	149	151	2	1.28		0.11	0.53	.005*			
				1,340	*						
71284	151	153	2	1.68		0.31	0.59				
	153	158	5	4.40		6.71	1.32				
	158	161	3	3.55		4.19	1.03				
							1.3*	.010*			
71287	161	164	3	4.50		13,11	1.32				
	164	167	3	0.51		12,33	1.12			U. T.	
	167	169	2	2.41		4.46	0.82				
			-	2.454	*		0.6*	.010*			
71290	169	171	2	- 0.01		0.08	0.38				
71 268	214.5	216.5	2	0.04		0.11	0.38				
	216.5	217.5	1	2.21		2.93	0.53				
71207	2.010	2.7.10			* 0.4*	2.9*	0.3*				
71270	217.5	222	4.5	0.02		0.34	0.35				
	222	223	1	0.84		0.14	0.41				
71272	223	226	3	18.51		7.41	8.79				
11212	220	220		18.35*	1.0*	8.0*	15.1*	.075*			
71 273	226	227	1	7.65	1,0	14.65	1.82				
71270	220	241		7.64*		11,00	1.90*	.005*			
71274	227	229.5	2.5	3.41		1.29	0.85	.000			-
	229.5	231	T.5	0.14		0.23	0.41				
71275	227.5	201	1.5	0.14		0.20	0.41	-	-	-	
71276	242	243	1	2.00		0.85	0.56				
	243	251	8	0.01		0.06	0.38				
	251	252	1	6.33		12.87	2.71				
				6.704	k	15.4*	3.7*	.005*			
71 279	252	253.8	1.8	3.06		1.68	0.68				
	253.8	256.5	2.7	0.16		0.08	0.35				
	10 00										
		-									
								-		-	

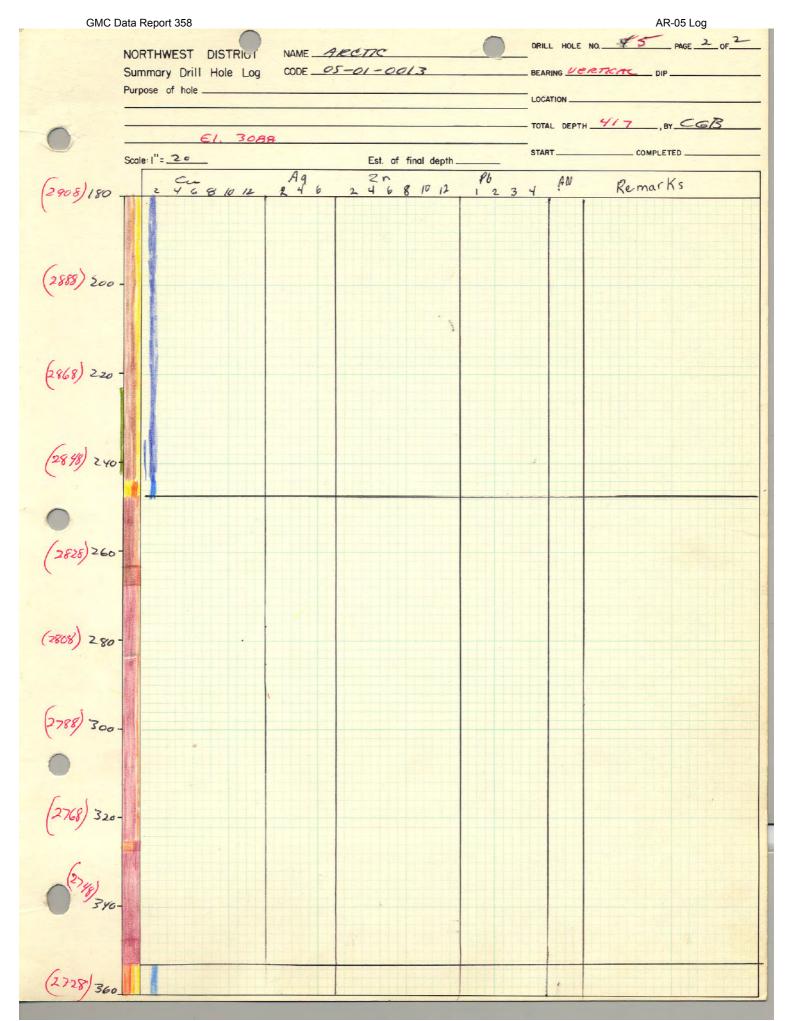
BC 12-66

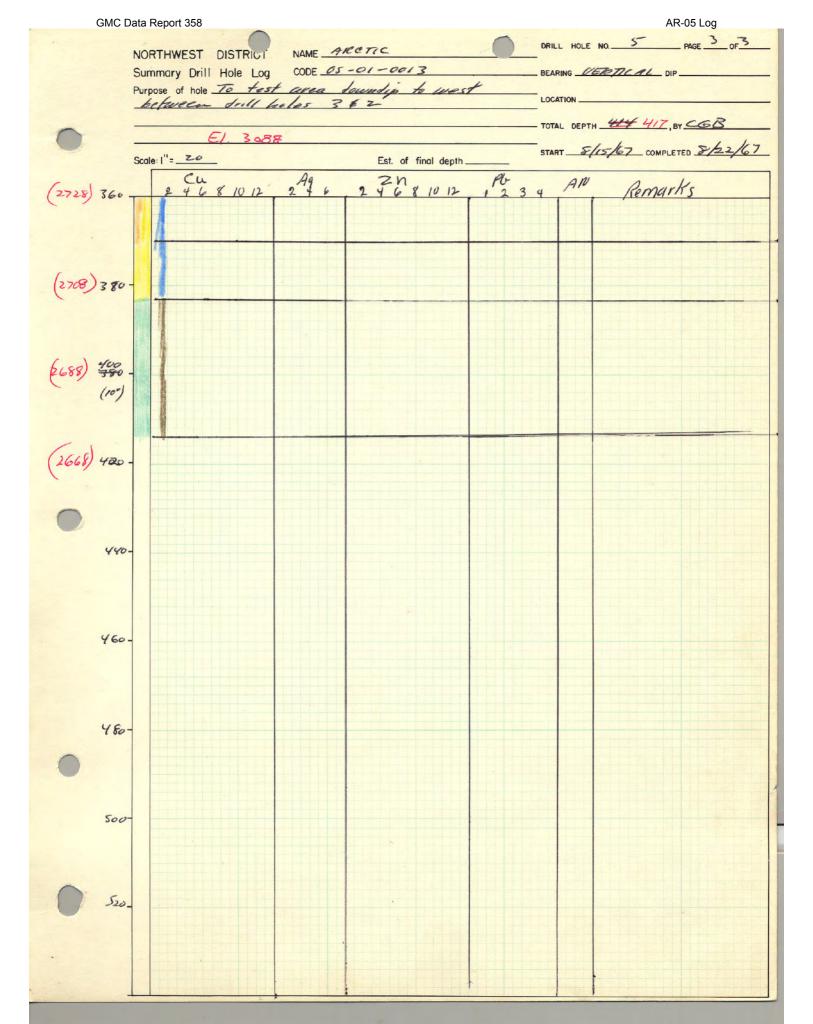
SAMPLE RECORD

E1 3077

PROJECT: MECTIC DATE / /67 WORKING PLACE DH-4 SAMPLER: Au Sample Chan. Sample True Assay Assay Assay Assay Assay Feet Assay Assay Assay Feet Wt. Location Width Size Remarks Number Length 6.5 71281 141-146.5 0.35 0.05 0.08 1.518 146.5-149 2.5 1.48 71282 3,76 0,53 1.328 0.10 0,010 1340 1.28 2.62 0.53 1.06 71283 149 - 151 2 0.005 1.68 3.36 0.59 1.18 ,015 71284 151 -153 0.31 0,42 Cu 46.154+ 7/2 85 153-158 1.32 6.60 6.71 33.85 49 13.24 FT 2 185.45 A 5 1 3 158-161 10.65 7.03 4,19 12,57 0,010 71287 161-164 4.50 13.50 1.32 3,96 13.11 39.33 cu 52.624pt 164-167 71288 3.36 153 1.12 12.33 3699 3-131,36 Apt 71289 167-169 2 4.46 892 0.010 4.94 0.82 1.4 2 7/290 169-171 0.38 0.76 0.08 77268 214.5-216.5 2 0.04 0.38 0.6 0.11 0.4 7/269 216.5 -217.5 0.53 71270 217,5-222 4.5 6.02 0.35 1.57 0.34 7/27/ 222-233 0.41 0.14 0.84 0.41 Cu 71.46 As, Ft. 18,35 53-29 8.79 35,7 7.41 23,10 0.005 7/272 223-226 18.43 1.0 7.64 1.82 1.86 14.65 14.65 7/273 226 - 227 7.64 Zn40,98 As ft. 7/274 227-229.5 2.5 8,53 0.85 2.13 1.29 3.23 7/275 229.5-23 1.5 0.21 0.41 0.62 0,23 71276 242-243 2.00 0.56 0.56 0.85 8 71277 243-251 0.38 3.04 0.06 3,7 3,2 6.704 12.03 15:40 14.13 Cu 12,02 455 ft 71778 251-252 19 4,4 03 H 1.8 7/279 252-253,8 2 4 848V Ass Ft 5,51 0.68 1.22 1.68 1.68 3.06 7/280 253.8-256.5 2.7 6.16 0.43 0.08 6.35 7/281 7 0.11 119-126 0,06 0,42 0,26







GMC Data Report 358 AR-05 Loa 96-107.5 Altern. Layers = 6" fine fine grain slightly carbonac. 0- 31 More or 1835 Chhutic nog strite flyreen taley chlorite and wi white blebs to Intense oxid. < 100 in a sheere chlaritic matrix; luc, 107.5-114 - Augen affile - white med. gray afrite allor-muse metry - with meno oxid =100 ger warry tevelop Variable 14 Size to 3/4 < 1/2" H 44"; =1"below44. 114-124, and Med. Ik gray Mod. Oxed - for litersa 31-96 France as above; matrix layered highly selection schist - serve. Sheen . + 10-150 - 190. thin pale gen pale green selection green mod contorted po chlarite - black sneck chloute seams vege shens bliks brotite Ufg deso. py FIX 1% oxidation: ± 10° 1 loc. pale green homog, talcychloute; matrif decrees, below 28

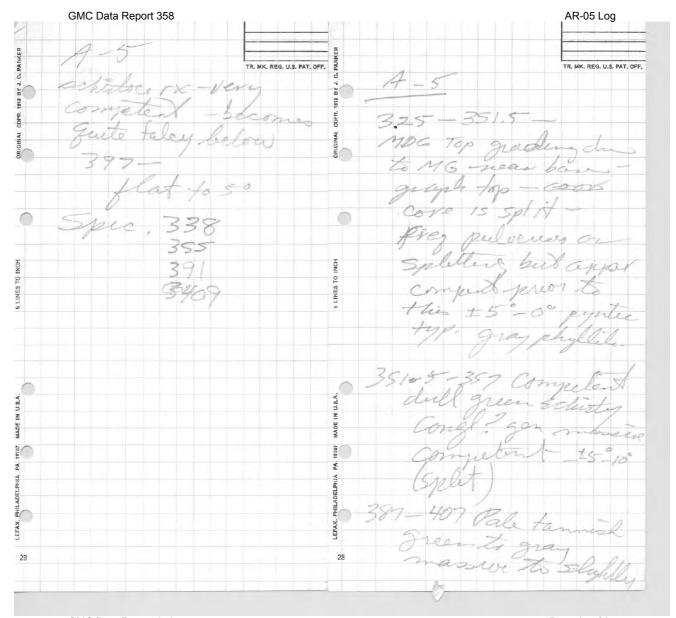
GMC Data Report 358 AR-05 Log 124-149 - Micacions glate pale green covarse rucca seams loe - good grate Typical school parple green Matrix pale-med! toc. patchy gray mottleney +10°. low intense oxid blebs - blebs angular slightly rounded 130-131 to one another borders 134-136 140-49154 Indistract - square to mot to weak exit loc rot shaped Rx - Grange - brown where INTENSIY OXID 157-168 177-15-178 Pyrific zone 124-129. MOD GXID 161-164 169 -169 Unit has gray white find 175-177 178-180 Intense OKID 203-206 210 - 211 223-224 229-231 233 -237 241-245 Mod oxif - de for 1-2 PA 28

GMC Data Report 358 Page 62 of 97

GMC Data Report 358 AR-05 Log R. MK. REG. U.S. PAT. OFF 244-247 Sileceris bande 325 - 329.8 Stightly contonac. chelogete school after box. schestoce glilepale green and gre layers-talked bottom of gradational into underlying unit. dep + 10° Durche - TRACE Cpy, minor mica school Sample 325-329,5 3295 - 340 - Extremely partionece pyritie - py 3-5% 100. mente oxid. schied with Che, 100. Sooty block highly carbonac. combly zones partie 263 - 270. 346 - 347 - x culling Native Cu seam 343-346 to 1/4" at 269: Unit die gray to black py as blobs and diss grains along cleavage Sample 321-322.5

GMC Data Report 358 AR-05 Log 70 Union from DH-5 346-347 Au 361,3-364,3 Cu Az, Ap-364,3-366,3 Cu, Az, Zu, Pb-347-353 DK. seleceous graph schirt alternuell scheetice Otrite. dip +10° scattered py Icc. Cp slams & Sp. - > sample +1347-353 36372-377 Cu, Ag, Pb-, Au gizete - purky appear - fresh 377-386 Cu, Ag, Pb Jy dissem yedins - minor 380 -382 Cup Any 5p, TR Cp in Sear -5 Sand 353-357 357 - Sime as above with grew 370-383 Muscourte-chl. sehist. very soft-goingy-high-grade 351-388 Chlor plung - lee talog 370 gell green cledoute + 5-10° shown by samples - py +10 % in sulfide zones -2-3 elsewhere 383 - 385 Bloby pale gree Chlorite street - 5079 366.3 - 367.3 367.3 -375 375-377 385-407 Pale green chlorite school - bot rx? 377 - 380 380 - 382 382 - 383 Berren to my sulfide le low 383' 28

GMC Data Report 358 Page 64 of 97



DOWN-HOLE SURVEY DATA (cont'd)

DOWN-HOLE FOOTAGE	INCLINATION	AZIMUTH
ARCTIC DRILL HOLE 43 155 355 545 745	80 72 68.5 63	90 82 82 63
ARCTIC DRILL HOLE 46 385 455	73 72	2 12
ARCTIC DRILL HOLE 48 139 239	88 83	ND

AVERAGE ARCTIC DRILL DEVIATION

			CUMULATIVE DEVIATION			
DEPTH	INCLINATION	AZIMUTH	HORIZONTAL	VERTICAL		
100	86	45	3.5	0.1		
200	81	45	14.8	0.8		
300	77	45	33.8	2.7		
400	74	45	58.8	5.9		
500	73	45	87.2	10.0		
600	72	45	117.2	14.6		
700	71	45	148.9	19.7		
800	70	45	182.3	25.4		
900	69	45	217.3	31.7		
1000	68	45	253-9	38.6		
1100	67	45	292.2	46.2		
1200	66	45	332.2	54.5		

	0-50 - Vectreal
	50-150 4 6.97 7.0
	150 - 250 9 15.64 15.6 256 - 356 13 22.5 22.5
3/2/14	350-417(67)16 18.5 18.5
	63.6
THE REAL PROPERTY OF THE PROPE	
	22.6
	22.6
	22.6
	22,6
	22.6
	22,6
	22.6
	22,6
	22,6
	22,6 ARCTIZ DOLL-5
	ARCTIZ DOM-5 1" = 2001
	ARCTIC DOLL-5 1 = 2001 2116/73 45
	ARCTIZ DOM-5 1" = 2001



DJECT_003-00-0013 - Arctic

ASSAY LOG

* Union KCC

SAMPLE	LE SAMPLE INTERVAL			ASSAY							
NUMBER	FROM		FEET	Cu	Pb	Zn	Ag	Au			
71145	60	70	10	0.08		0.04	0.28				
											1
71146	124	129	5	0.04		0.04	0.31			-	
	3.5.4	7.50	1	0.04		0.14	0.44	-			-
71147	154	158	4	0.04		0.14	0.44	-		-	
71148	263	268	5	0.29		0.46	0.57				
71140	200	200		0.27		0.10		.005*			
71149	268	270	2	0.74		0.28	0.44				
								.010*			
71150	321	322.5	1.5	1.35		0.24	1.06				
								.030*			
		1		- 4 - 4		0.70	0.00				
71117	325	329.5	4.5	0.19		0.58	0.88	1			
71110	222	240	7	0.40		0.23	0.73		-		
71118	333	340	7	0.48		0,23	0.73				
71119	343	346	3	0.26	-	0,68	0.59				
71120	346	347	1	4.40		1.36	1.03				
/1120	040	0-17	-	7.10		1,00		.045*			
71121	347	353	6	0.29		0.40	0.58				
71122	353	357	4	0.03		0.03	0.47				
71123	361.3	364.3	3	2.01		0.16	0.64				
				1.992*	0.3*		0.24*				
71124	364.3	366.3	2	1.50		17.70	1.06				
				1.429*	3.9*	17.45*	1.04*				-
71125	366.3		1	2.68		0.45	0.70			-	-
71126	367.3	375	7.7	0.15		0.13	0.57			-	
71127	375	377	2	7.36	0.5*	13.35*	2.1*	.010*		-	
71128	377	380	3	12.85	0.5	6.28	1.81	.010		1	
71120	0//	000		12.570*	0.3*	0.20	1.86*				
71129	380	382	2	4.69		2.48	0.89				
71130	382	383	1	0.78		0.59	0.51				
						-					-
		-								-	-
		7									

BC 12-66

SAMPLE RECORD

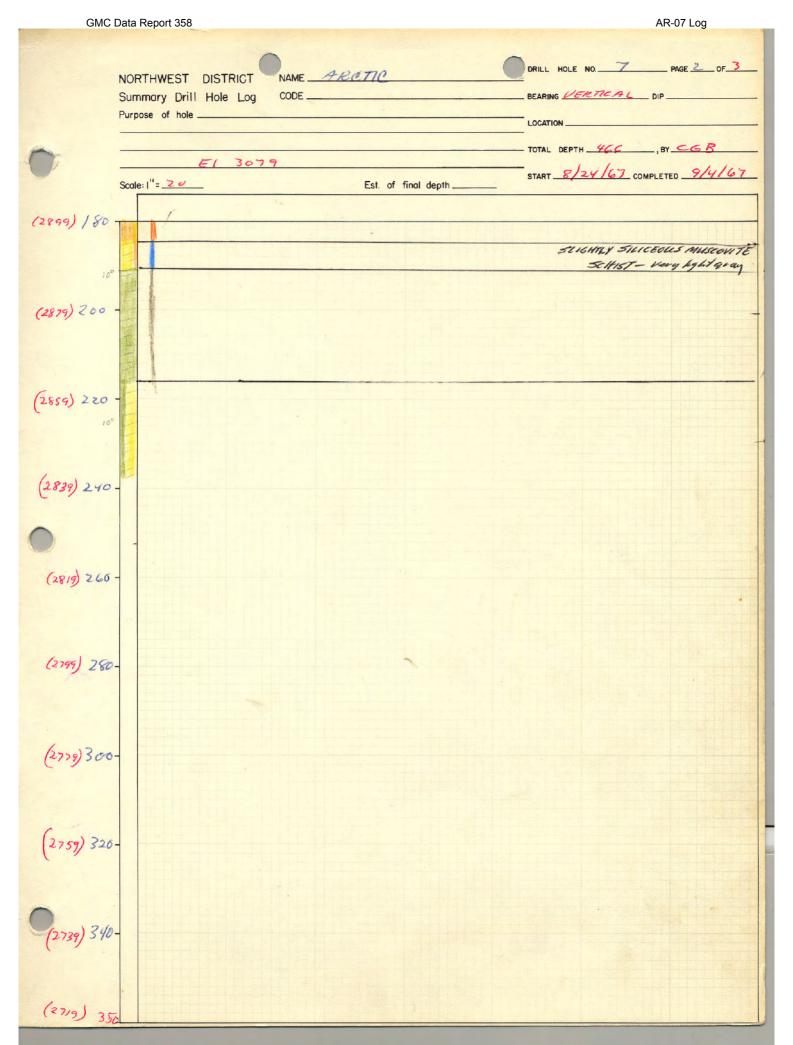
E1 3088

PROJECT: ARCITE WORKING PLACE: DH-5 SAMPLER: DATE / /67 Regenhait Black ink Sample Sample Assay Assay Assay Assay Assay Assay Assay Assay Feet

Assay Feet

Assay Assay Assay Assay Feet Chan. True Width Size Wt. Number Remarks Location Length 71145 60-70 0.28 71146 174-129 0.31 71147 154-158 0.44 71/48 263-268 71149 268-270 0.44 71150 321-322,5 1.06 71117 325-329,5 0.88 71118 333-340 0.73 71119 32/3-346 0,59 0.69 71120 346 -347 1.36 0.045 71121 347-353 71122 353-357 0,03 0.64 1.32 71123 361.3-364.3 6.00 0.3 1,429 711 24 3643 -366,3 2.90 3.9 2,50 1.06 0.35 :005 0,05 2.68 71125 366.3-367.3 0.70 The. 0.58 0.15 0.10 71126 367.3 - 375 7.7 0.57 7.307 4.02 13.70 27,04 14,614 71127 375-377 0.010 0,5 1.92 12.85 37.716 1.86 71128 377-380 3 17.710 0.3 2.48 496 71/29 380-382 9.38 2 4.69 0.89 71130 382-383 0.51 0.59 0,78 8.81 % an 375-382 26 %

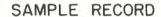
GMC Data Report 358 AR-07 Log DRILL HOLE NO. 7 PAGE 1 OF 3 AME ARCTIC NORTHWEST DISTRICT DDE 05-01-0013 Summary Drill Hole Log Purpose of hole _ LOCATION TOTAL DEPTH 466 3079 START \$/24/67 COMPLETED \$/9/4/67 Scale: |"=_ 20 Est. of final depth cu 2N 4691012 PU 1234 AN Remarks (3079)0 Lt-Med It gray quarteite (gritty) with more or less muscovite as shown - very locally highly siliceous musconte (3059) 20 schist. (3039) 80 (3019) 60. (2979) 160 (2959)120-(2939)140



GMC Data Report 358 AR-07 Log DRILL HOLE NO. 7 NORTHWEST DISTRICT CODE OS-Summary Drill Hole Log Purpose of hole LOCATION Scale: |"= 201 Est. of final depth.

GMC Data Report 358 AR-07 Log DRILL HOLE NO. 7 Cont NORTHWEST DISTRICT NAME . CODE . Summary Drill Hole Log Purpose of hole __ LOCATION Scale: |"=_50' START Est. of final depth -4507

142.02

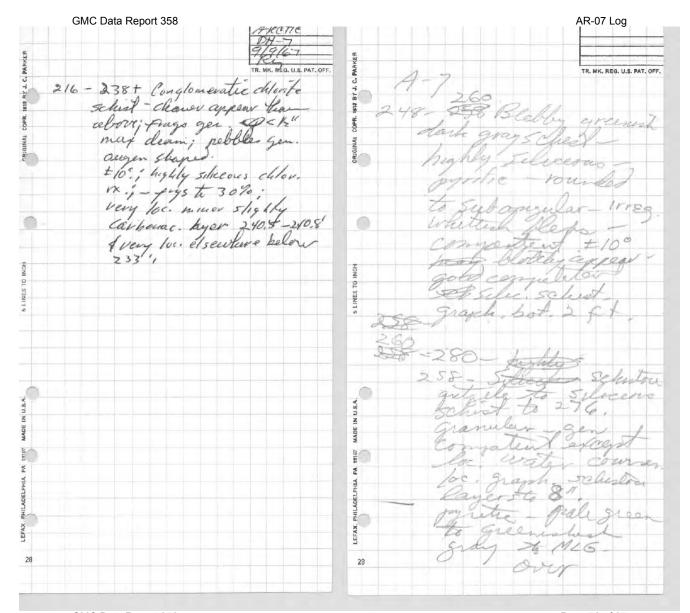


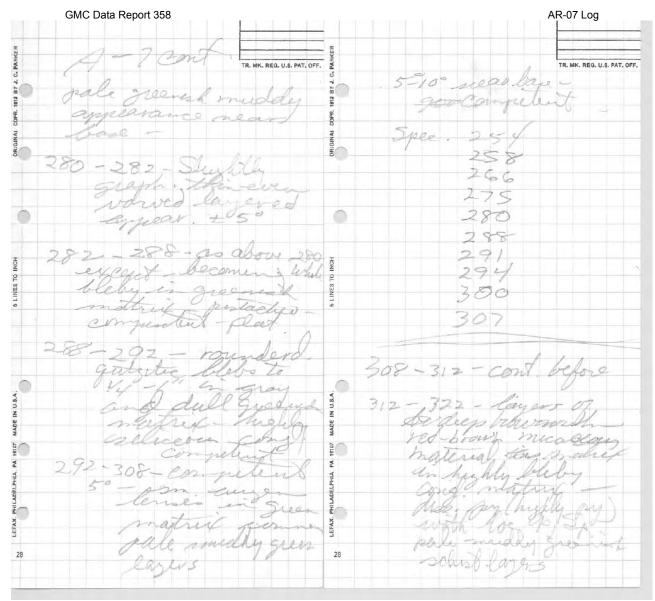
E1 3079

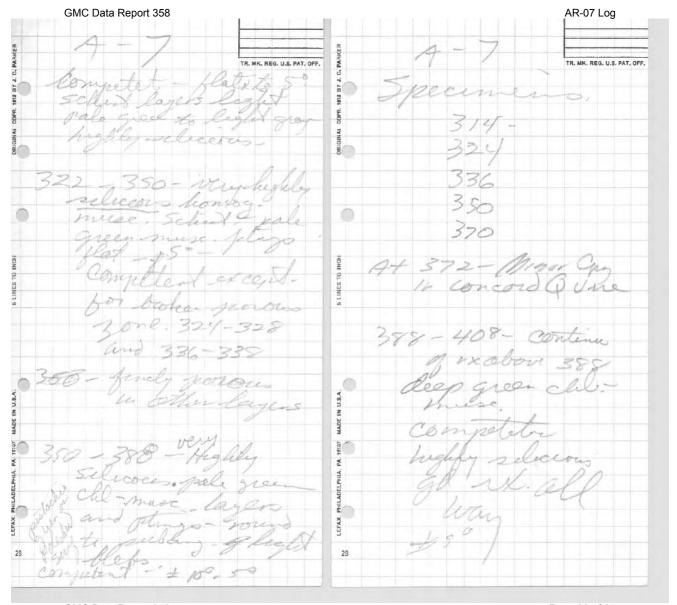
DATE / /67 PROJECT: ARCTIC WORKING PLACE: DH - 7 SAMPLER: Degenhard Black In K 1 Cu AV Chan. Sample True Sample Assay Assay Assay Assay Assay Assay Assay Assay Assay Feet Width Size Remarks Number Length 405-405 0.5 71151 0.49 405 -469 4 0,5 71152 049 0.8 409-411 2 0.20 71153 71154 411-414 3 2.29 6.89 1.2 2.29 1.0 4.5 996 0.010 0.9 1.08 2.10 0.8 71155 414-416 1:05 0.3 0.7 0.01 0.00 3.5 0.5 0.05 416-419.5 0,90 71156 0.5 NI 0.00 0.010 0.90 0.92 0.5 0.05 71157 4195-420.5 0.92 N.1 0.00 0.00 8.55 2.48 420.5-422 5.71 6.64 9.96 0.140 1.0 1.5 5.70 424 12.63 3.0 9.3 9.16 2748 0.020 422 - 425 3.0 71159 4.21 1.0 425-427 5.13 10.72 7/160 159 31.80 8,075 8.25 24.63 2.18 7.2 11.37 34.11 0.040 3 427-430 8.21 110 3.0 7/161 4.39 17.36 2.6 71162 430-434 41.60 0.030 4.34 10,4 0.32 4.90 19.40. 2.8 434-438 0.32 71163 11.6 10.4 (8.5) 34.04 7.36 29.32 2.8 12 H 71164 438-442 0.7 2.8 7.33 2.59 6.37 2.8 7.7 7/165 442-444.5 28,500.055 2.58 1.4 3,5 71166 444.5-446.5 0.2 0.4 0.15 0,26 0.6 6,26 Th 2.0 0.13 0.8 0.13 71167 446,5-451.7 5.2 Not 0.6 0.6 0.05 1.0 71168 451.7-452.7 2,10 2,10 5.3 7/169 0.05 0.6 452,7-458 0.6 0.16 420.5-444.5 = 24ft \$ 5.37 % Cu 4,2480 Cm a & Ay MR of KCC & Union Assays = 33,5 10.38%24

GMC Data Report 358 degl. oxid, below 20 until gray siliceous xx (glyster 66 - 66 -107' mot oxity tron specks dork material negl. below 107 31' - 40' - Black Speckled blebs 68-103 - grithy from gran in pale greenish gray grite matrix - chlorite clean light gray about with very tray black protite increases downward. Specks ; even deloutie 40 - 44 - Dull green chloriticis Seams particul prom. (granular) quartzite ; their layers blotchy dark indusing Atthewayered with fine your ad silicesus Theo thick dollars gray-blowled appear. bands. # 20° schistoce gings common below 82 belding lest (A-39 Shows the black specho & chlerite, promunent; less chlorite. 44 - 89 - Continual of bundad 103-113 Deterlayered \$19 atrite dull green ix with their wayey layers carbonas? pale green chloule matter. carpon malerial School of Glassy sheen to allorete-breaks across less than 5% ; loc. white blotchey inclusions folear comman near top ! wood schesler many dark blobs & spacker 10-150 113-118 Typical Hy griffy 59 -68 - Similar to above but gray bands tox10% atzete with dissen older. Negl. graphite - pighty schistory due to incheas chlorite-talcy box 2.

GMC Data Report 358 ARCTIC 118 -129 - Pale dull gree 141-168+ chloritic gizite; clear quarte granes with dissent. chloreto xx - poorly developed schistoc conspie subangular secums, chlorite gale green clear appear (washed) and gay blobs in a sea glassy gtrile; locally layered & schoter high alloute zones dull green weally t= 10-150 173- 185 increased chlorite takes rx back into same aspect as 127-14/ +100 127-141- Highly solices Pale green chloret 185-1915- BB Siliceous chlorite scholst - same as above water width layers but increased chilarit; many banding , districtive vippled Stightly iveris chilerele laners 10-15-0 191.5- 216 Chlorite schist with subangular white blebs. EQUELOMERATE of glade 1/8" comming at 135' - loc, above tragments roundal to Then; chlorite tecreases augen shaped to +1" dean. downward aloute Met It green Oxid. intente, - griting distinction appear,







GMC Data Report 358 AR-07 Log OPIGINAL COPR. 1810 BY J. C. PARKER TR. MK. REG. U.S. PAT. OFF.

OJECT 003-00-0013 - Arctic

ASSAY LOG

* Union KCC

SAMPLE	SAMP	LE INTE	RVAL		<u> </u>		ASSAY				
NUMBER			FEET	Cu	Pb	Zn	Ag	Au			
71151	400	405	5	0.49	1.0	nil	0.5			-	
71152	405	409	4	0.49		nil	0.5				1
71153	409	411	2	0.20		0.18	0.5				
	411	414	3	2.29		4.15	1.2				
71154	411	414	3		* 0.9*	4.13	0.9*	0.010*		-	
71166	17.4	47.6	2	1.08	0.9	0.01	0.8	0.010			-
71155	414	416	2		* 0.3*	0.01	0.54*				
777.57	43.7	170 5	2.5	0.90	0.3	nil	0.5				
71156	416	419.5	3.5	0.90		nii	0.5	0.010*		-	
71167	120 5	100 5	7	0.00			0.5	0.010			-
71157	419.5	420.5	1	0.90	4	-1	0.5	0.010*		-	
	100 5	100	7.5	0.932	^	nil	0.2*	0.010*		-	-
71158	420.5	422	1.5	5.71	4 7 04	6.64	2.4			-	
	100	105	0		* 1.0*	0.17	2.8*	-		-	
71159	422	425	3	4.24		9.16	3.0	0.000#		-	
	7000				* 1.0*	1.5.0	3.2*	0.020*	-	-	
71160	425	427	2	5.13		15.9	2.4			-	
		3.57		5.599	*		2.2*			-	-
71161	427	430	3	8.25		11.37	2.1	2.2722		-	
					* 1.0*		2.7*	0.040*			-
71162	430	434	4	4.39		10.4	2.6				
				4.292	*		2,78*				
71163	434	438	4	4.90		10.4	2.8				
				4.803	*		2.94*				
71164	438	442	4	7.36		8.51	2.8				
				7.307	* 0.7*		3.4*	0.035*			
71165	442	444.5	2.5	2.59		11.4	2.8				
				2.503	* 1.4*		3.5*	0.055*			
71166	444.5	446.5	2	0.15		0.13	0.6				
				0.119	* 0.2*		0.2*	tr*			
71167	446.5	451.7	5.2	0.05		nil	0.6				
								nil*			
71168	451.7	452.7	1	2.10		0.39	0.7				
	452.7		5.3	0.05		0.16	0.6				
											1
							-				
								1			
								1			
										1	
	-										
											
						1				1	-

BC 12-66

GM	Data Report 358	,	AR-08 Log
	NORTHWEST DISTRICT NAME Hredic Summary Drill Hole Log CODE 1964 Relog Purpose of hole	RILL HOLE NO DI	
		— TOTAL DEPTH,	BY
	Scale: I"= Est. of final depth	START COMPL	ETED
50	typical of the siliceous chlmuse.	schest.	
100	Idele ends of 99'		
•			
•			

1305 Wast 36th Avenue Anchorage, Alaska

October 14, 1971

MEMO TO: The Files

FROM: L. L. Lackey

SUBJECT: ALASKA - Ambler River - Arctic Patent

Samples from the "new" discovery pit on amended Arctic 10 claim assayed as follows:

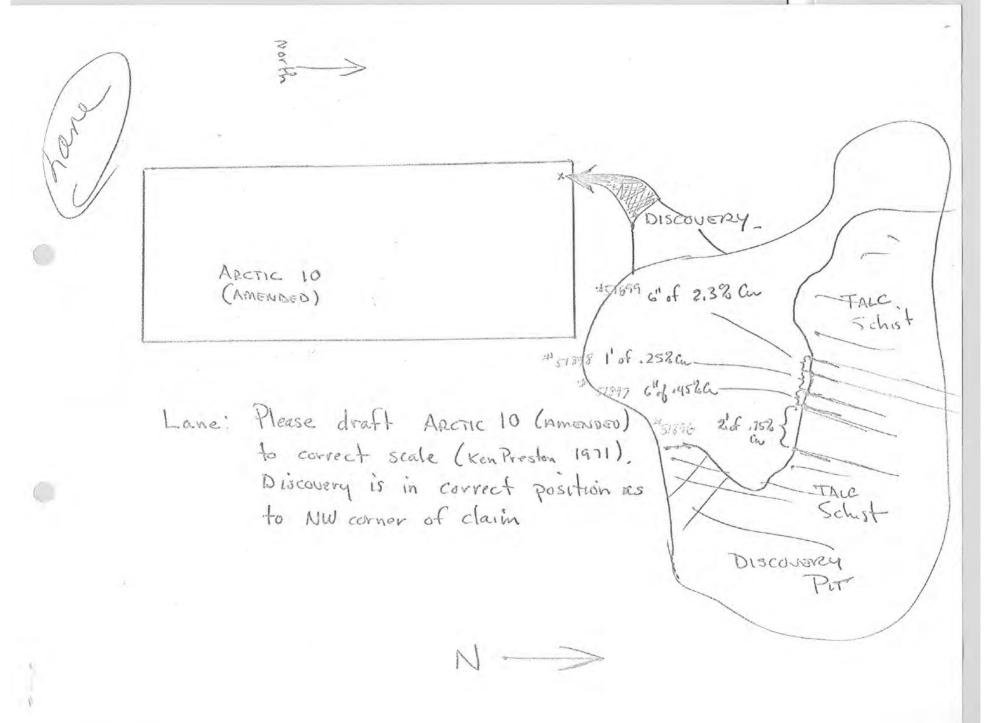
Sample		Cu, %	Zn ppra	ррш ррш	Ag oz/con	Au cz/ton
51899	611	2.3	510	100	.61	.09
51898	1 4	.255	670	95	.05	.02
51897	611	.45	725	130	.06	.02
51896	2 *	.75	675	170	. 24	.07

L. L. Lackey

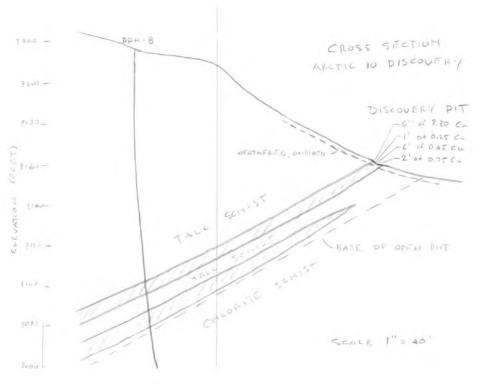
LLL/mi

Attachment: Diagram

cc: Glenn C. Reed



GMC Data Report 358 AR-08 Log



GMC Data Report 358 Page 87 of 97

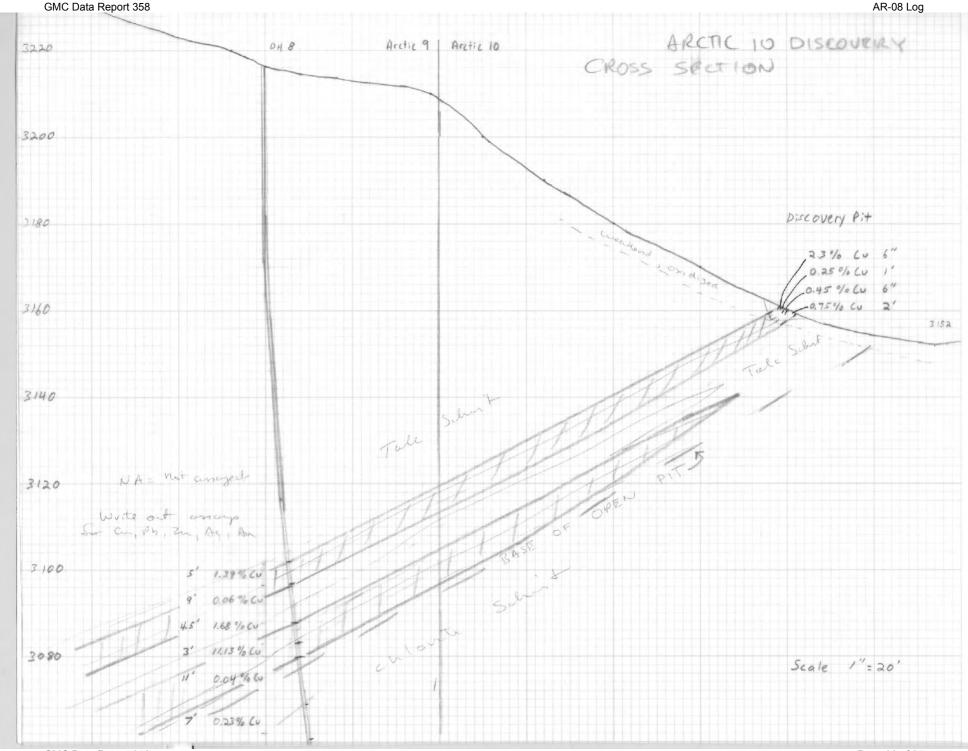
GMC Data Report 358

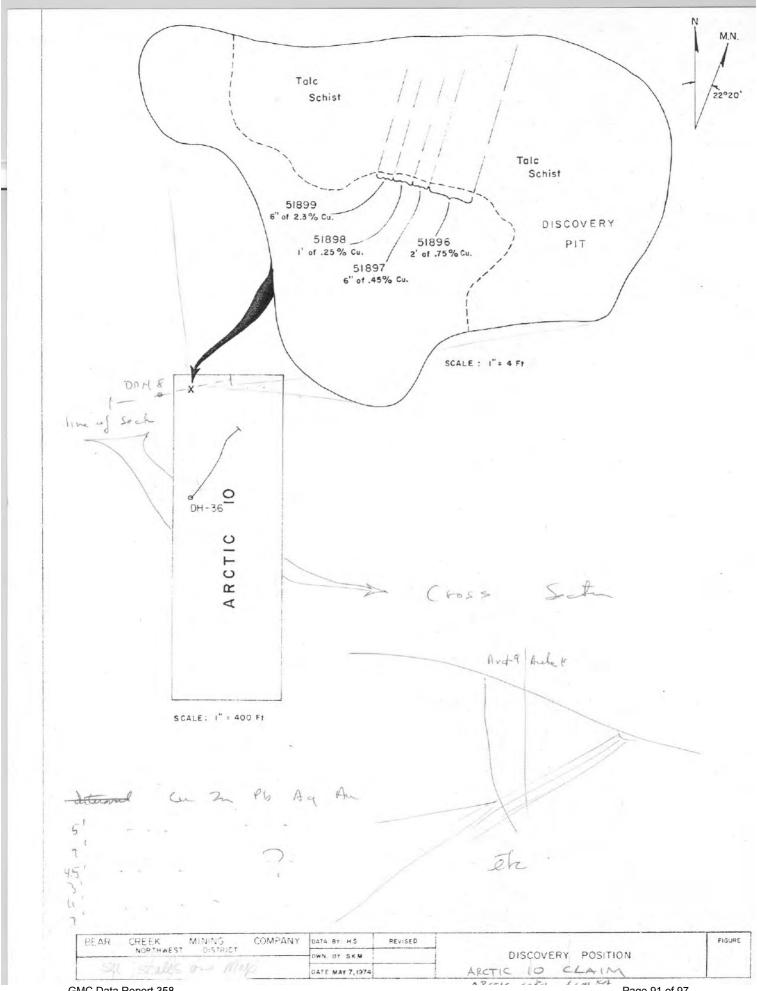
AR-08 Log

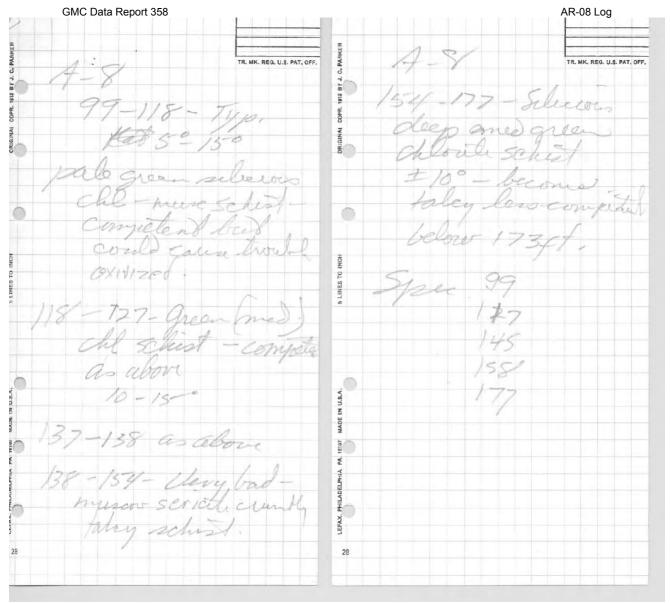
Chuck Please Revise this May 74 drawing
to wieled the locate of DH8, a line of Section, and
the section on about, but reduced
to fit the page
the next to add the Pb, Zn, Ag, An
values to all samples, too. Should
the girt bailed at table, or can be
list then out next to the intercept or
sample? I'll leave this to you.

The attended all the file data.

We'll need this is a week.







51894 Quadrangle AMBLER A.J

ROCK SAMPLE STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION

LOCATION OF SAMPLE RELATIVE TO CR.

Al & clos 2. SEDIMENT SIZE SAMPLED 3. ORGANIC CONTENT OF SAMPLE

4. CREEK SIZE AND VOLUME

5. STREAM PROFILE
Steep w/

6. OUTCROPS OF BEDROCK

7. TYPE OF BEDROCK (Hist Typ

SEVERAL PIECES FROM ~10'

8. FLOAT IN CREEK (as per 7) S OF 51892

9. GEOCHEMICAL FIELD TEST

Somple No. 5/892
Date 7-22-71
Quodrangle PABLER A-1

ROCK SHMPLE

STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION

1. LOCATION OF SAMPLE RELATIVE TO CR. D

2. SEDIMENT SIZE SAMPLED 3. ORGANIC CONTENT OF SAMPLE

6. OUTCROPS OF BEDROCK

7. TYPE OF BEDROCK (list types and percentag Metamorphic

> INDIVIDUAL PIECE FREM N. END OF

6. FLOAT IN CREEK (OS per 17) DISCOLERY PIT

ARCTIC CLAIM#10

NEDGE OF CLAIM.

9. GEOCHEMICAL FIELD TEST

Sansle No. 51895 7-77-71 PABLEX A-1

POCK SAPPLE STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION

1. LOCATION OF SAMPLE RELATIVE TO CR. D

2. SEDIMENT SIZE SAMPLED 3. ORGANIC CONTENT OF SAMPLE

4. CREEK SIZE AND VOLUME Width F - Fo

5. STREAM PROFILE
Steep w/r

6. OUTCROPS OF BEDROCK

7. TYPE OF BEDROCK (list types

COMPOSIT CHIP

8. FLOATINGREEK (@ per 47) SAMPLE FOR

LENGTH OF 15'

N-S ALONG PIT

P. GEOCHEMICAL FIELD TEST WIACL-

Sample No. 5/893

Date 7: 22-7/

Quadrangle PMBLE A-1

ROCK SAMPLE

STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION

LOCATION OF SAMPLE RELATIVE TO CR. 2. SEDIMENT SIZE SAMPLED ORGANIC CONTENT OF SAMPLE

light w/little 4. CREEK SIZE AND VOLUME

5. STREAM PROFILE

6. OUTCHOPS OF BEDROCK

7. TYPE OF BEDROCK (list types

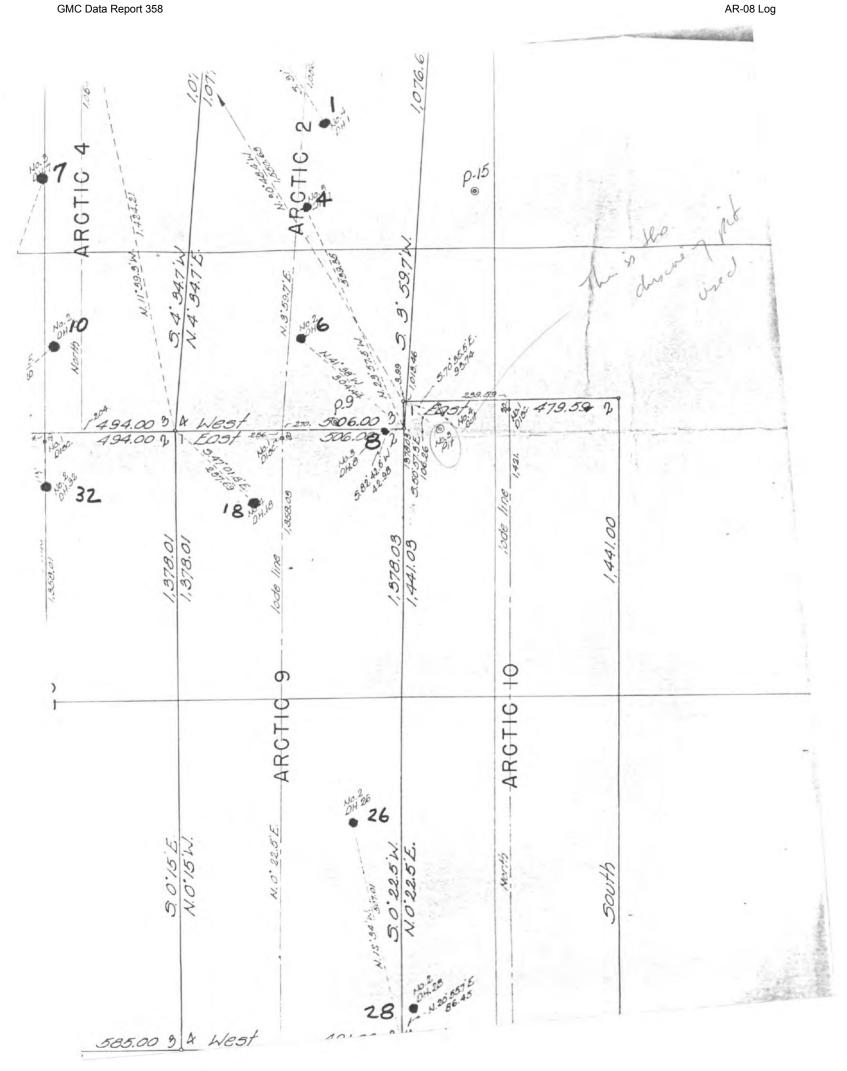
INDIVIDUAL DIECE B. FLOAT IN CREEK (on par 17)

OF 51892

P. GEOCHEMICAL FIELD TEST

* Cu

* H.M.





Bear Creek Mining Company

Northwest District

1305 West 36th Avenue Anchorage, Alaska

July 30, 1971

MEMO TO: G. C. Reed

FROM:

LLL/mi

L. L. Lackey

SUBJECT: ALASKA - Ambler - Arctic

Land

Samples 51892 - 51895 were taken from outcrop on the northwest corner of Arctic 10. The claim was amended to include this outcrop.

The claims (18) have been adjusted. Those claims amended that are in Patent Proceedings include 1, 2, 3, 4, 10, 17, 19, 24, 25, 26, 27, 28, and 29.

The corners of these claims were amended in order to include drill holes of ore grade. See Lane for the map.

Find Here

GMC Data Report 358

Page 95 of 97

POJECT (003-00-0013 -	Arctic
HULE NO.	DH - 8	

ASSAY LOG

* Union KCC

				KCC											
SAMPLE	SAMP	LE INTE	ERVAL	ASSAY											
NUMBER	FROM	TO	FEET	Cu	Pb	Zn	Ag	Au							
71088	114.5	119.5	5	1.39		0.18	0.35								
71089	119.5	128.5	9	0.06		0.14	0.24								
71090	128.5	133	4.5	1.68			0.50								
					* 0.4*	0.65*	nil*	0.005*							
71 091	133	136	3	11.13		11.50	2.59								
				11.293	* 2.4*		3.5*	0.020*			1				
71092	136	147	11	0.04		0.04	0.32								
71 093	147	154	7	0.23		0.40	0.32								
					0.3*			nil*							
						1									
										,					
				-	-										
											-				

BC 12-66

SAMPLE RECORD

El 3	195
------	-----

PRO	DJECT: ARCTIC V	WORKING	PLACE	DH	-8					SAMP	LER:_				DATE	//
Sample Number	Degenhard en black en ke Location	Sample Length	True Width	Assay	Assay Feet	Ag Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	P. Assay	Assay Feet	Chan. Size	Wt.	Remarks
71088	114.5-119.5	5.0		1.39												
7/089	114.5 - 119.5 119.5 - 128.5 128.5 - 133.0	9.0		0.06												
71090	128.54-133.0	4.5		1.63	7.33	0.25	1.12	0.65	2.93			0.4	1,80			
71091	133.0 - 136.0	3.0	- €	11.210	33.63	3.0	9.00	11.50	34.50			2.4	7.20			3
71092	136.0 - 147.0	11.0		0.04												
7/093	147.0-154.0	7.0		0.23												
	128.5-136 7,5 pt.							/				101				
	Ba 128.5 - 136	_	5.469	Cu	- (2-	_	133.	-136	1	11.2	17C2	100			
			1.3 00	19							11.50	097	0			1111
	-1,5 ft.		5.00%	22	(4,9	7		*	3.0	7.	0.0	20	qu			
			1.2%	PL				-	-		2.4	070 M.	36			
								1	*							
-													-			
					-											
-																
date				-				-								
								-								
-				•												
1																
								<u> </u>								
-																
		1		1	1-	1		+	1	1	-	-	+			9