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')

<u>A-4, AR-04 (5 boxes)</u>

• 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')

RAPHIC LOG ROCKS CLASTS FILLINGS ALTERATION MINERALIZATION				CLASTS	ROCKS	RAPHIC LOG
All Contractions and the second schedule schedule schedule (1980).	All and a contract of the second of the seco	Color Grain Size Sinape Size Resol Resol Size Size<	Colcite Dolomite Quartz Other Color Grain Size Spec. Features Width	% Color Grain Size Shape Size Type Resol	in atton mposition ain Size ain Size ain Size ain Size ain Size ain Size	C Copper %
Hack Crephtic Phyllite. (7342) Quartzose Tale Muscoute Schist. (735/2/2) Talcose Muscoute Schist. (736) Colcorcous Talcose Chloritic Schist. (739).	Black Enephilic Phyllite. (7342) Quartzose Tale Muscourte Schist. (735 th /137) 3. 7a/cose Muscourte Schist. (736)				Ŷ	7
Puartzese Tale Muscoute Schist. (735/b) (737) Image: Taleose Muscoute Schist. (736) Image: Colearcous Taleose Chloritic Schist. (739).	All				Sama a & 26.5 END OF HOLE & 10.5'	
Calcareous Talcore Chloritic Schief. (739)) (735 % / 737)	A quartzose Tale Muscourte Schist.	
					Calcareous Talcare Chloritic Se	

requir to expediat for a corse graved meterial	DJECT: Ruby Creek, Alaska	Hole No. <u>A-1</u> Interval	To	Collar Elev. 2992	Inclination	Bearing	Logger	A. Johnson Date Aug/6	7Sheet No. / 4
	APHICLOG	ROCKS	CLASTS	FILLINGS	ALTERAT	ION	MI	NERALIZATION	
Edite and product changes for the second of the second	Copper % .5 1.0 1.5 2.0 2.5 3.0	Composition Color Grain Size Composition Color Composition. Color Composition Color Composition Color Composition	% Color Grain Size Shape Size Type Resol	% Celctite Dolomite Quartz Other Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Perosity Lingestone Dolomite Argillite Replacement Replacement	the	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal.	Galena Pyrrh. Chalcocite C. Bornite C. Bornite C. CuCos Limestone Dolomite Lime.Dol. DolClast Phyllite C. Vn.	0. vn. Q. vn. Others
equile teheren equile teheren equile teheren equile teheren equile teheren equile teheren equile teheren equile teheren equile teheren equile teren equile teren		toliation suggest carbonarous			V throughout pyritic mat some soction punky app	sore after eriol and in ons produces earonce.	3.7 - th. granu 3.7 - th. granu - throag - agge -	he py. often exhedrol see heare grow clusters torm ns along to hation Sul precompletely receystal	Hered scottered ohides hides
masses in intensely tolicited schirt		CALS Talcose - Chlorite Schist Strongly alcor				aton el leaching material 30 formes as ar to euhedral and clusters.	y y 4-3 v v 7-9 v 0-50 v v v 1-3 v v 1-3 v v 1-3 v v	Antipartic de la composition d	

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DJECT 003-00-0013 - Arctic

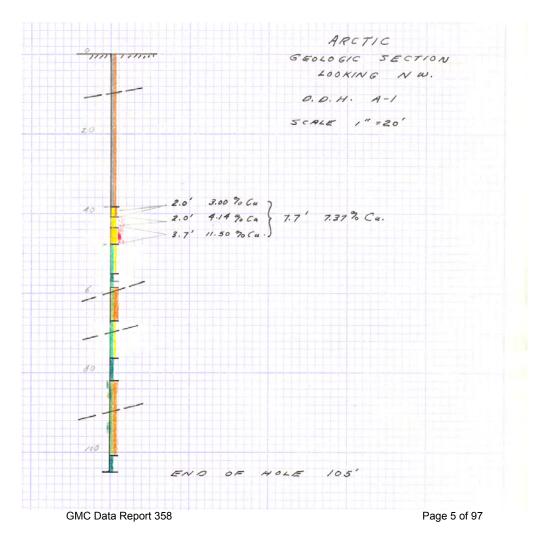
HULE NO. DH-1

ASSAY LOG

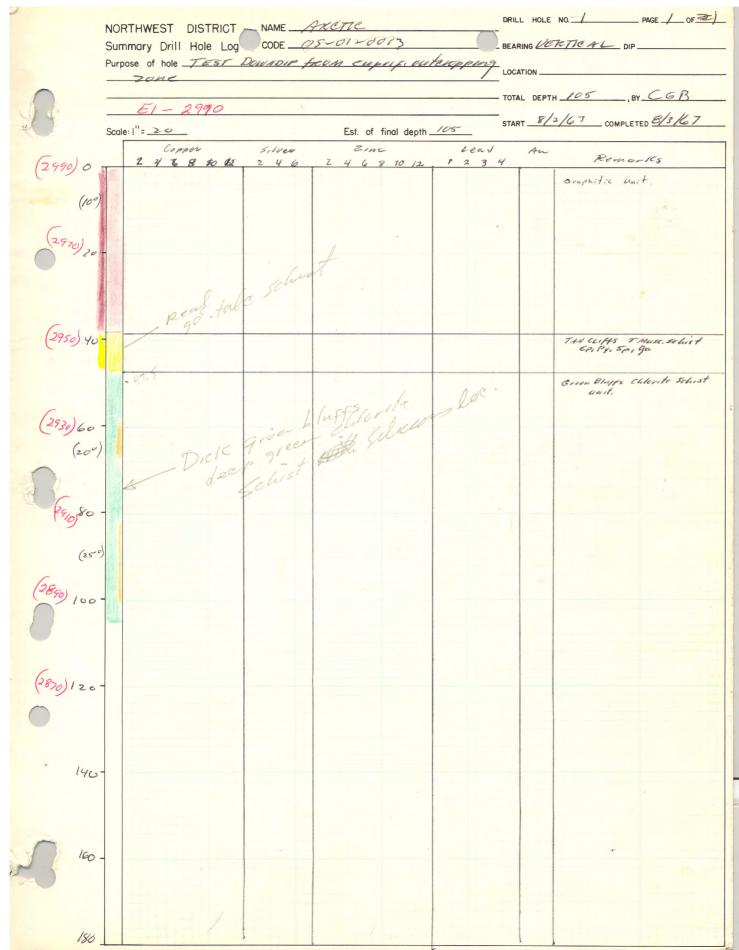
* Union KCC

SAMPLE		and the second sec	1				ASSAY		1		
IUMBER	FROM	TO	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				
<u></u>				2.96*		1.00*	0.6*	0.010	1		
71077	41.5	43.5	2	4.14		38.56	1.27				
/10//	11.0	10.0		4.25*		3.76*	1.2*	0.025			
71078	43.5	47.2	3.7	11.50		6.13	2.57		1		
/10/0	40.0	47.2	1 0.7	11.81*	1.2	11.68*	3.2*	0.030			
71079	47.2	50.0	2.8	0.06	1.4	0.10	0.17	0.000			
			And a rest Confinement of Auror of Streets of Streets	0.02	······	0.02	0.13				
71080	50.0	52.0	2		an and the second s	0.02	0.13				
71081	52.0	57.0	5	0.06			0.17				
71082	57.0	61.0	4	0.03		0.01	0.13				
		1.1						1			
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AR-01 Log



AR-01 Log



GMC Data Report 358

Page 6 of 97

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					SA	MP	LE I	RECO	ORD			EI	299	0			
PRC	JECT :ARCTTC	V	VORKING	PLACE	DH	-1					SAMP	LER:_				DAT	E / /67
Sample Number	Location		Sample Length	True Width	-Cca Assay	Assay Feet	Assay	Assay	2 Assay	Assay Feet	Assay	Assay Feet	Assay	Assay Feet	Chan. Size	Wt.	Remarks
71075	38.5-39.5	N	1.0	,59 /05			6.26				0.110						
	39.541.5	442	2,0	6.00	3.00		0.6	1.2	1.00	2.00	0.065						
	41.5-43.5	53.3	2.0	8.28	4.14					7.80							+
71088	43.5-47.2	6.23	3.7	42,55	11.14		5.2	10.4	11.60	42,92							
71079	47.2 - 50.0		2.8		0.06		2.05 1	10.4			-		_		1		
	50,0-52.0		2.0		0.02						1						
1081	52.0-57.0		5.0		0.06												
1082	57.0-61.0		4.0		0.03												
			1	Cu	7.40	1.01											
	39.5-47.2	7.7	14	Zn	6.8												
	2 11 2 - 1 11 -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2.0								1.1.1				
			1	12		3											
								1.									
		Regentiant	stor	71075	0.78	2	6.40				0.110						
		,		71076			0.50		0.20		0.065						
				71078			41										
				71078			2,80		10,79								
															1		
															1		

AR-01 Log

1 DRILL HOLE NO. PAGE _/ OF_/ NORTHWEST DISTRICT NAME Summary Drill Hole Log CODE ____ BEARING - DIP Arctie Purpose of hole ____ LOCATION TOTAL DEPTH 100 , BY START _ _ COMPLETED _ Scale: 1"= 50 Est. of final depth. See Rizes all A-1 log - What FOR! Typical sil muse - chloril schif. Henogeneens, featurelles - dips ±100 50' Soft-greeny chlorite schut off viriedie - hight green. 100-150i x

TE FROM 38.5 39.5 41.5 43.5 43.5 5 41.5 43.5 5 40.5 40.5 40.5 40.5 40.5 40.5 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.5 42.	41.5 43.5 47.2 405 409 411 414 414 416 419.5 420.5 422 425	AL FEET 1.0 2.0 3.7 3.7 4 2. 3.5 1.0 1.5		ECOVERY	9,270 E.10,7 INCLINATION: SAMPLE 71075 71075 71077 71078 71078 71057 52 52 52 52 54 55 54 57		ASSAY Ag oz 6.26 0.57 1.27 2.57 	Cu % 0.63 3.00 4.14 12.34 	205 <u>F</u> Res 2.05 3.86 6.13 4.13 4.11 4.11 4.11 4.11 4.11 4.11 4.13 5.15 6.13 6.13 6.13 6.13 7.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11		PROJECT And C	Ag 02	cu %	5/67 2. more 9. 3.51/87 Ft 7. 3.96 / 7.7 Ft 1. 3.96 / 7.7 Ft 12.45 0.03	Hole N	
TE FROM 38.5 39.5 41.5 43.5 43.5 5 41.5 43.5 5 40.5 40.5 40.5 40.5 40.5 40.5 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.5 42.	10 39.5 41.5 43.5 47.2 47.2 40.9 41.1 41.4 41.4 41.4 41.4 41.4 41.6 41.9 5 42.5 42.5 42.5	AL FEET 1.0 2.0 3.7 3.7 4 2. 3.5 1.0 1.5	R	ECOVERY	% SAMPLE 71075 71075 71077 71078 71028 71157 52 52 52 52 52 54 55 54 55		ASSAY Ag oz 6.26 0.57 1.27 2.57 	Cu % 0.63 3.00 4.14 12.34 	10.05 10			Aq 02 7.24/8.7 AT 1.7/7.7 A.	Cu 9/2 6.96/8.7 /21 7.78/7.7 /2	2. more 9, 3.51/8.7 pt) 4. 3.51/8.7 pt) 4. 3.96 / 7.7 pt. 12.45 0.02	Sheet	
TE FROM 38.5 39.5 41.5 43.5 43.5 5 41.5 43.5 5 40.5 40.5 40.5 40.5 40.5 40.5 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.5 42.	10 39.5 41.5 43.5 47.2 47.2 40.9 41.1 41.4 41.4 41.4 41.4 41.4 41.6 41.9 5 42.5 42.5 42.5	AL FEET 1.0 2.0 3.7 3.7 4 2. 3.5 1.0 1.5	R	ECOVERY	% SAMPLE 71075 71075 71077 71078 71028 71157 52 52 52 52 52 54 55 54 55		ASSAY Ag oz 6.26 0.57 1.27 2.57 	Cu % 0.63 3.00 4.14 12.34 	10.05 10			Aq 02 7.24/8.7 AT 1.7/7.7 A.	Cu 9/2 6.96/8.7 /21 7.78/7.7 /2	2. more 9, 3.51/8.7 pt) 4. 3.51/8.7 pt) 4. 3.96 / 7.7 pt. 12.45 0.02	WO,	
TE FROM 38.5 39.5 41.5 43.5 43.5 5 41.5 43.5 5 40.5 40.5 40.5 40.5 40.5 40.5 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.5 42.	10 39.5 41.5 43.5 47.2 47.2 40.9 41.1 41.4 41.4 41.4 41.4 41.4 41.6 41.9 5 42.5 42.5 42.5	FEET 			71075 71076 71077 71078 71028 71157 52 53 54 55 54 55 54	Au oz	Ag oz 6:26 0.57 1.27 2.57 	0.63 3.00 4.14 12.34 	0.05 0.01 3.86 6.13 4.13 4.11 4.11 0.18 4.15 0.01			2.24/8.7 +1	6.96/8.7 <i>ft</i> 7.78/7.7 <i>f</i>	1. 3.51/8.7 pt 7. 3.5% / 7.7 pt 7. 3.5% / 7.7 pt 12.45 0.02		
38.5 39.5 41.5 43.5 43.5 5 41.5 43.5 5 40.5 40.5 40.7 40.5 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.5 40.7 40.5 40.7	39.5 41.5 43.5 47.2 47.2 40.9 41.1 41.4 41.4 41.4 41.4 41.4 41.6 41.9 5 42.5 42.5 42.5	1.0 2.0 2.0 3.7 5 4 2 3 2 3.5 1.0 1.5			71075 71076 71077 71078 71028 71157 52 53 54 55 54 55 54		6.26 0.57 1.27 2.57 0.5 0.5 0.5 0.5 1.2 0.8	0.63 3.00 4.14 12.34 	0.05 0.01 3.86 6.13 4.13 4.11 4.11 0.18 4.15 0.01			3.60	1.78/7.7 +	+. 3.96 / 7.7 ft.)		
39.5 41.5 43.5 43.5 43.5 43.5 40.5 40.5 40.5 40.5 40.7 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.4 41.5 42.5 42.5 42.5 42.5 42.5 42.5 43.6 43.4 43.4 43.8 44.2 5 43.5 44.5 55.5	41.5 43.5 47.2 405 409 411 414 414 416 419.5 420.5 422 425	2.0 2.0 3.7 4 2 3 2.5 1.0 1.5			71076 71077 71078 71078 71157 52 52 52 52 52 52 52 52 52 52 52 52 52		0.57 1.27 2.57 	3.00 4.14 12.34 12.34 0.49 0.49 0.20 2.29 1.08	0.01 3.86 6.13 			3.60	1.78/7.7 +	+. 3.96 / 7.7 ft.)		
$\begin{array}{c} 41.5 \\ 43.5 \\ 43.5 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	43.5 47.2 405 409 411 414 414 416 419.5 420.5 422 425	2.0 3.7 5 4 2 3 2. 3.5 1.0 1.5			71077 71078 71078 71157 52 52 52 52 52 52 52 52 52 52 52 52 52		1.27 2.57 	4.14 12.34 12.34 0.49 0.20 2.29 1.08	3.86 6.13 4.1 4.1 0.18 4.15 0.01			3.60	4.87	12.45		
43.5 14-7 40 $47540540540741741441441941941054194105419410541$	47.2 405 409 411 414 414 416 419.5 420.5 422 425	3.7 5 4 2 3 2 3.5 1.0 1.5			7/078 7/157 52 52 53 54 55 54 55 54		2.57 0.5 0.5 1.2 0.8	12.34 0.49 0.20 2.29 1.08	6.13 4/1 4/1 0.18 4/15 0.01					0.02		
DH - 7 40 47 405 409 411 419 414 419 5 425 425 422 425 427 430 434 434 438 442	405 4109 411 4114 4114 4114 4119 5 420.5 422 422 425	5- 4 2 3 2. 3.5- 1.0 1.5			7//57/ 52 53 54 55 54 55 54		0.5 0.5 0.5 1.2 0.8	0.49 0.49 0.20 2.29 1.08	4.1 4.1 4.15 4.15 0.01					0.02		
460 4105 4107 4109 411 4114 4114 4114 4114 4119,57 4120 4125 4125 4120 4130 4144	409 411 414 414 419 5 420.5 422 422 425	4 2 3 2. 3.5 1.0 1.5			53 53 54 55 55 56		0.5 0.5 1.2 0.8	0.49 0.20 2.29 1.08	4,1 0.18 4.15 0.01					0.02		
460 4105 4107 4109 411 4114 4114 4114 4114 4119,57 4120 4125 4125 4120 4130 4144	409 411 414 414 419 5 420.5 422 422 425	4 2 3 2. 3.5 1.0 1.5			53 53 54 55 55 56		0.5 0.5 1.2 0.8	0.49 0.20 2.29 1.08	4,1 0.18 4.15 0.01					0.02		
460 4105 4107 4109 411 4114 4114 4114 4114 4119,57 4120 4125 4125 4120 4130 4144	409 411 414 414 419 5 420.5 422 422 425	4 2 3 2. 3.5 1.0 1.5			53 53 54 55 55 56		0.5 0.5 1.2 0.8	0.49 0.20 2.29 1.08	4,1 0.18 4.15 0.01					0.02		
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460 4105 4107 4109 411 4114 4114 4114 4114 4119,57 4120 4125 4125 4120 4130 4144	409 411 414 414 419 5 420.5 422 422 425	4 2 3 2. 3.5 1.0 1.5			53 53 54 55 55 56		0.5 0.5 1.2 0.8	0.49 0.20 2.29 1.08	4,1 0.18 4.15 0.01					0.02		
405 409 414 414 414 416 419,5 422 425 422 425 422 425 422 427 427 427 427 427 427 427	409 411 414 414 419 5 420.5 422 422 425	4 2 3 2. 3.5 1.0 1.5			53 53 54 55 55 56		0.5 0.5 1.2 0.8	0.49 0.20 2.29 1.08	4,1 0.18 4.15 0.01					0.02		
489 414 414 414 416 419,5 420,5 422 425 422 425 427 427 427 427 427 427 427 427	411 414 416 419.5 420.5 422 422 425	2 3 2. 3.5 1.0 1.5			5-3 5-4 55 56		0.5 1.2 0.8	0.20 2.29 1.08	0.18 4.15 0.01	0				0.02		
411 414 414 419,5 420,5 422 425 427 427 427 427 427 427 427 427 427 427	414 416 419.5 420.5 422 422	3 2. 3.5 1.0 1.5			54 55 56		1.2	2.29	4.15	-	0			0.02		
411 414 414 419,5 420,5 422 425 427 427 427 427 427 427 427 427 427 427	414 416 419.5 420.5 422 422	2. 3.5 1.0 1.5			55 56		0.8	1.08	0.01	0-	0			0.02		
416 419.5 422 422 425 427 427 430 434 434 438 442 5	419.5 420.5 422 425	3.5 1.0 1.5			56					0-	0	1.60	2.16			
419.5 422.5 422.5 422.6 422.6 427.6 427.6 430 434 434 438 442.5 4	420.5 422 425	1.0 1.5					0.5	0.90	11							
420,5 422 425 427 430 434 434 434 438 438 442	422 425	1.5			57					-	-	1.75	3.15	~		
422 9 425 9 427 9 430 434 9 434 9 438 9 442 9	425	1					0.5	0.90				262/21.5 24	0.90 5.81/21.540	10.76/21.5-42		
425 427 430 434 434 438 438 442					28		2.4	5.71				9.00 2.64 /24 pr	0.90 5.81/21.540 8.57 5.48/24Az	9.96 27.48 (10.37/24')		
427 430 434 438 438 442		3			59		3.0	4.33			-	9.00 2.01124 11				
430 434 434 438 442	427	2			71160		2.4	5,21	15.9			9.80	10.42	34,80		
434 438 442 4	430	3			61		2.1					6.30	35.62	34.11		
438 442 4	434	4			62		2.6	4.36	10.4			10.40	17.44	11.60		
442 4	438	4			63		2.8	5-01		-		11.30	20.04	41.60		
442 4	442	4			64		2.8	7.51	8.51	_		11.20	30.04	. 34.04		
	444.5	2.5			65		2.8	2,59	11.4			7.00	6.48	18.50		
449.3 4	446.5				68		0.6	0.15	0.13			1.30	0.20	0,26		
446.5				28.1	67		6.6	0.05	No			3.12				
451.7					68		0.7	2,10	0.39							
452.7					71169				0.16		-					
			-			-					-					
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9,282 N			17-					TECT Arc			13
0,615 E							HO.	. NO. I	DH - 1		
2,990 E Depth		is ele	evati		ASSAY I	LOG		Union KCC			
SAMPLE	SAMP	LE INTE	RVAL		Oz/To	m	ASSAY				
NUMBER		1	FEET	Cu	Ag	Zn	Au*	Pb *			
											1.
71075	38.5	39.5	1.0	0.63	6.26	0.05	0.125				
	2950.5			2.96*		1.00*		nil			
	39.5	41.5	2.0	3.00	0.57	0.06					
71077	41.5	43.5	2.0	4.25*			0.025	nil			-
				4.14		38.56					
71078	43.5	284238				11.68*	0.030	1.2			1
		47.2		11.50	2.57	6.13					
71079	47.2	50.0	2.8	0.06		0.10					
71080	50.0	52.0 57.0 61.0	2.0	0.02	0.13 0.17	0.02					
71081 71082	52_0 57.0	57.0	5.0	0.06	0.17	0.07			-		
11082	57.0	01.0	4.0	0.03	0.13	0.01					
				-							
				-		1				1	
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										-	
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							-				

PROTRCIT ARCITC

HOLL NO. DH-1

ASSAY LOG

SAMPLE	SAMP	LE INTI	ERVAL	1	100 asso	pre	ASSAY				
NUMBER	FROM	ТО	FEET	Ca	Ag	Zn	Au	PH			
71075	38.5	39.5	1.0	0.63	6,26					1	
71076	39.5	41.5	2.0	3.00	0.57	0.06					
		43,5	2.0	4.14	1.27	3.86			1	1	1
		47.5		12.34	2.57	6,13			-	1	
			2.8		0,17	0.10				-	1
71079	47.2 50.0	50.0	2.0	0.06	1				-	-	
71080		52.0		0.02	0.13	0.02				-	
and the second s	52.0	57.0	3.0	0.06	0.17	0.07					
71082	57.0	61,0	4.0	0.03	0.13	0.01					
71075							,125			-	
76				2.96.	0.6	1.00	010	_		1	
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GRAPHIC LOG				ROCK	<s s<="" th=""><th></th><th></th><th>CLA</th><th>STS</th><th></th><th>FILLI</th><th>NGS</th><th>A</th></s>			CLA	STS		FILLI	NGS	A
Copper % "=10".5 1.0 1.5 2.0 2.5	0.6 Inclination Composition	Calor Grain Size Composition Color	Grain Size Composition.	Composition Color Grain Size		Misc. Feat.	% Color	Cotor Grain Size Shape Size	Type Resol	% Calcite Dolomite	Quartz Other Color	Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone
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GMC Data Report 358

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Limestone	Dolomite	Argillite	Replacement	Rexlization	Other	Туре		%	E. Pyrite	Pyrite	Cpy.	Bornite	Tnt.	Chalcocite	Sphal.	Galena	Pyrrh.	Chalcocite C.	Bornite C.	CuCoa	Limestone	Dolomite	LimeDol.	DolClast		Phyllite	C. Vn.	D. Vn.	Q. Vn.	Others		Est.	Assay.	
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Page 12 of 97

PROJ	ECT: Ru	by Cre	ek, Alc	aska			Ho	olel	No.	A	-2	5 S.	In	terv	al		80				Го			/	60	>		Coll	ar E	lev.		30	76			Inclin	natio	on	-	V
GR	APH	IC L	OG									R	0	Ck	(S								(CL	AS	ST	S				FI	LL	IN	G	S					A
Graphic Log 1"=10'	.5 1.1	Copper 0 1.5 2	- % .0 2.5	3.0	Inclination	Collor	Grain Size	Composition	Color Grain Size	Composition.	Color	Grain Size Composition	Color	Grain Size	Access	Fos	sils	Misc. Fea	t.		%	Color	Grain Size	Shape Size	Type	Resol		%	Calcite	Dolomite	Quartz	Color	Grain Size	Spec. Features	Aria th	Calcit.	Dolomit.	Oxidation	Porosity	Limestone
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NERT. Bearing	Logger A. JOHNSON Date HUG. 1967 Sheet No. 2 of Ø
ALTERATION	MINERALIZATION
Limestone Dolomite Argillite Replacement Rexlization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Chalcocite Sphal. Galena Pyrch. Chalcocite C. Bornite C. CuCo5 Limestone Dolomite Limestone Dolomite Limestone DolClast Phyllite Est. Others
Ecelared pits of exidetion (jarosite) throughout core of ter sulphide (pyrite?)	KI * tr. * seatored salphide grams

PROJ	ECT: Ru	by C	Creek	, Alc	ıska				Hol	e No		17-	2		Int	erve	al		/	60			To			2	40	5			Coll	ar	Ele	v		30	0.76	2		 Inc	clino	tio	n		
GR	APHI	С	LC	G				-	-		_			R	00	СК	S	1			1			_		(CL	A	ST	S			1	-	FII	L	IN	G	S			-	_	_	A
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PRO.	IECT: Ruby	Creek, Alaska			ŀ	Hole	No	•	A-2	2		Inte	erval		24	10		1	o			32	0		 Collo	r Ele	ev		3	10 76		I	nclin	atic	on		4
GR	APHIC	LOG									RC	DC	CKS				_				C	LA	AS	TS				FIL	LL	INC	GS	-					A
Graphic Log	C .5 1.0 1	opper % .5 2.0 2.5 3.0	Inclination	Composition	Color Grain Size	Composition	Color	Grain Size Composition	Color	Grain Size	Composition	Color Conto Sino	Grain Size	cess	Fossils	Misc. F	eat.		%	Color	Grain Size Shape	Size	Type	Resol	%	Calcite	Dolomite	Other	Color	Grain Size Spec. Features	Width		Calcit.	Dolomit.	Oxidation	Porosity	Limestone
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Limestone	Dolomite	Argillite	Replacement	Rexlization	Other	Туре		%	E. Pyrite	Pyrite	Сру.	Bornite	Tnt.	Chalcocite	Sphal.	Galena	Pyrrh.	Chalcocite C.	Bornite C.	CuCos	Limestone	Dolomite	LimeDol.	DolClast	PhvIlite	C. Vn.	D. Vn.	Q. Vn.	Others			Est.	Assay.	-
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	05-01-0013
PROJECT	ARCTIC

HOLE NO. DH - 2

ASSAY LOG

SAMPLE	SAMPI	E INTE	RVAL	¥¢	anale	part	ASSAY		_		
NUMBER	FROM	TO	FEET	CU		Zn	Au	Pb			1
71255	246.5		3.5	2.14	A9 1.93	4.30					
71256	250	252	2	0.78	0.72	0.13					
71257	252	255	3	0.14	0.50	0,09					
71258		267.3	2	17.81	8.55	16-37					
71259				17.46	9.46	14.48					
71260	269.3			16,75	12,01	13.7/			1		
71261		2.73.3		5.76	5.31	7.27					
71262	2 73.3			8.32	16.98	12.85					
	275.3				0.72	0.10					
11.00-	21013	t.t.C.			1						
			Cu		Ag	ZN	Au	Pb			
Minal		-	0.0		0	501	A 01A	A 0			
71255			12.12	27	1.1	3.96	0.020	0.8		-	
256				1104						+	
257			1711	[[]	1 1	10)	. 0.0	1.7			
258				10,00	6.6	14.95	0.035	1.7			
259			17.59	100	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	-										
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- OJECT 003-00-0013 - Arctic

HULE NO. DH - 2

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ASSAY LOG

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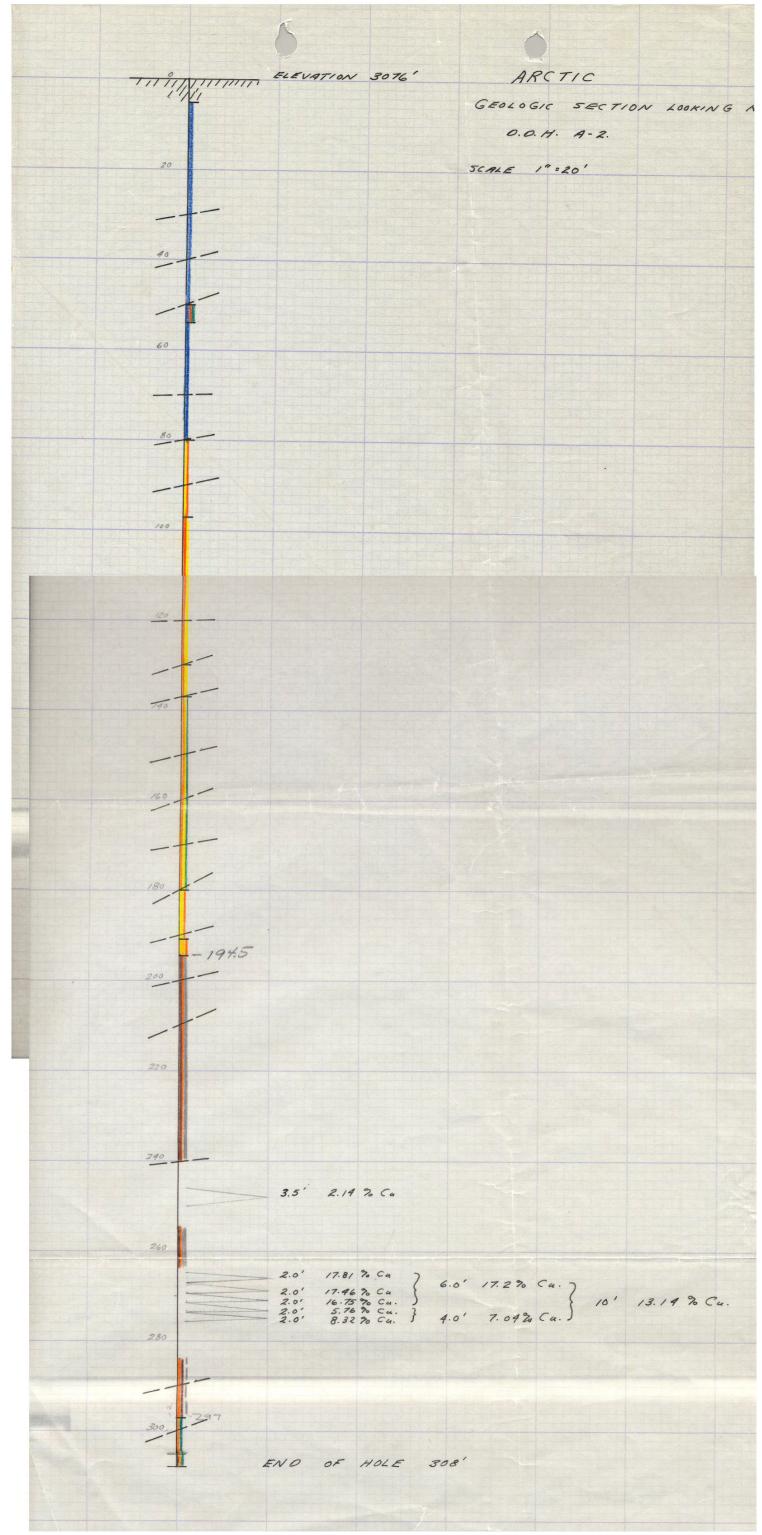
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SAMPLE	SAMPI	LE INTE	RVAL				ASSAY				
NUMBER			FEET	Cu	Pb*	Zn	Ag	Au *			
71255	246.5	250	3.5	2.14		4.30	1.93				
71200	210.0	200		2.12*	0.8*	3.96*	1.1*	0.020*			
71256	250	252	2	0.78		0.13	0.72				
71257	252	255	3	0.14		0.09	0.50		1		
/125/	232	255	3	0.14		0.07	0.00				
71050	0/E 2	267.3	2	17.81		16.37	8.55				
71258	265.3	207.5	- 2	17.64*	1.7*	14.95*	6.6*	0.035*			
71259	267.3	269.3	2	17.46	1.1	14.48	9.46	0.000			
/1257	207.0	207.0	-	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	2/1.0		16.53*	1.4*	11.59*	9.8*	0.135*			
71261	271.3	273.3	2	5.76		7.27	5.31				
71201	2/1.0	210.0		5.64*	1.3*	5.69*	4.3*	0.035*			
71262	273.3	275.3	2	8.32		12.85	10.98			1	
/1202	213.5	213.5		8.27*	1.3*	9.36*	9.0*	0.075*			
71263	275.3	278	2.7	0.96	1.0	0.10	0.72			1	
/1203	2/3.5	270	2.1	0.70		0.10	0.72				
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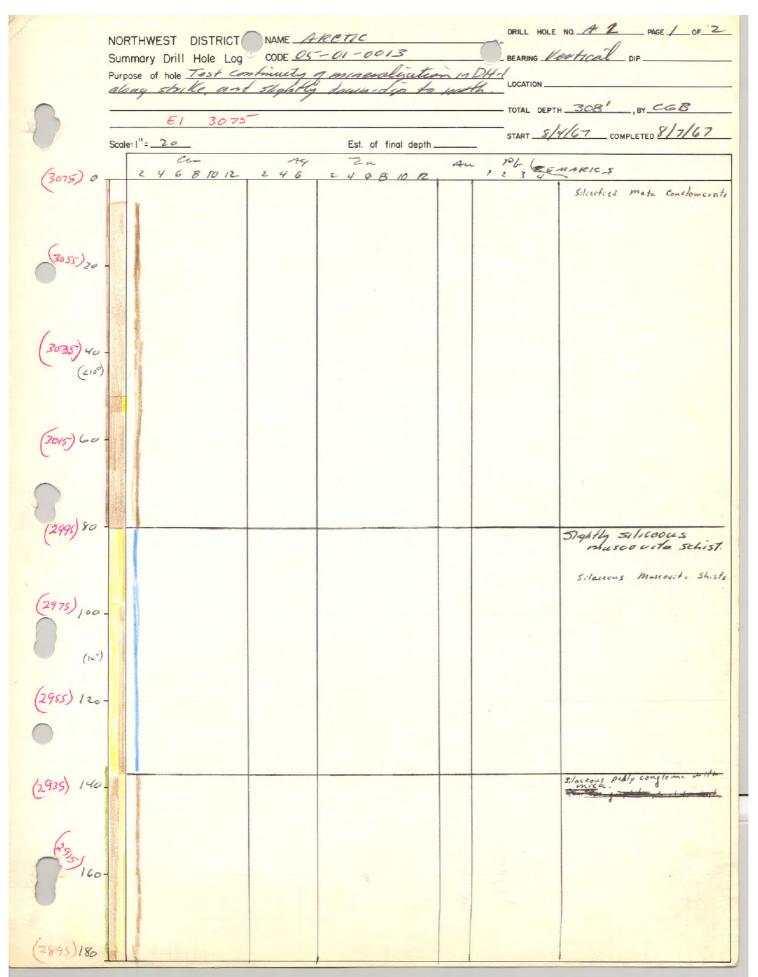
El 3075

SAMPLE RECORD

Sample	Degenhart 🗖	Sample	True	Ci	~	A	ĩ	2-	_	1	ha	PU	- 1	Chan.		
Number	Location	Length	True Width	Assay	Assay Feet	Assay	Assay Feet	Assay	Assay	Assay	Assay	Assay	Assay Feet	Size	Wt.	Remarks
1255	246,5-250	3.5	7.45	2,12	Degenha	1.93	5,25	3.96 4.30	14.45	0.020		0.8				
	250 - 252	z	1.56	0.78	-		1	0.13						1		
	252-255	3	0,42	0.14		0,50	1.50	0.09	0.27							
		2	35.44	17.69	1	6.6	15.2	14.95	31,32	0.035		1.7				1
1259	2653-267.3 0.410 267.3-269.3 Au 0-0444	54 2	35.44	17.59								1.8				
11260	2693-2713 Pt 15.0 A	SFA 2	33.28	16,53	4,46	9.8	21.8	11.68 14.48 11.59 13.71 5.69 7.27	25,30	0.135		1.4				
	7 105 9/ 4	e re-	11,40	5.64		4.3	4.20	5.69	5.94	0.03	5	1.3			·	
717 62	271.3-273.3 Ag 75.0 3 273.3-275.3 Cu131.74 A	54 2	16.58	8.27		9,0	9.10	9.76	22.60	0.075	f .	1.3				
and the second se	275.3 - 278	2.7		P.96		0.72		0,10								
			1	In								-				
		1	3.17	La	2											
1	10'	15	7.5 0							1						
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		1	6.041		1		1		-							5
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Page 19 of 97



AR-02 Log

NORTHWEST DISTRICT NAME <u>MECTIC</u> Summary Drill Hole Log CODE <u>05-01-0013</u> Purpose of hole <u>LOCATION</u> <u>E1 3075</u> Scale: I"= <u>20</u> Est. of final depth <u>START</u> <u>COMPLETED</u> $\frac{123975}{180}$ <u>E4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 1 2 3 4</u> Remarks Scale: I"= <u>20</u> Statebus muscovite strists	_
Purpose of hole LOCATION El 3075 $Scale: I''= 20$ $Cm Aq Est. of final depth START COMPLETED I = 20 Est. of final depth Pb Remarks$	
El 3675 TOTAL DEPTH 308, BY CGB Scale: "= 20 Est. of final depth Scale: "= 20 Est. of final depth	
El 3075 Scale: "= <u>20</u> Est. of final depth START COMPLETED (2875) 180 <u>2468 1012</u> , 246 2468 1012 1234 Remarks	
Scale: 1"= 20 Est. of final depth Cm Aq 2895) 180 2468 1012 2468 1012 2468 1012	-
(2895) 180 2468 10 12 246 2468 10 12 1 234 Remarks	-
2873 180 - 24 6 3 10 12 0 4 6 2 4 6 8 10 12 1 2 3 4	٦
	-
(2875) 200- Shists.	·+e
Stists.	
(2855) 220-1	
(2835) 240-	
(2815) 260 - 165 5-laceous, muscovite, tale shis	,
260 Sinlaceous, muscovite, tale shis	51
(2795)280-	
(-143)280-	
Quartaose, Chloritic Shirts	
2775 300- bottom B St	te
bottom 8 ft.	
	-
(2755)320-	1
	1
340-	
360	1

AR-02 Log

DRILL HOLE NO. 4-2 PAGE _ OF. Arctic NAME _ NORTHWEST DISTRICT CODE _ DIP. Summary Drill Hole Log BEARING Purpose of hole _ LOCATION TOTAL DEPTH _ BY. START . _ COMPLETED Est. of final depth 308 Scale: |"= 50' 0' Gtz- Bleb Schret grandar gte augen in med gr. chlorete matrix. 50' sharp contact is any chl. - muse, which grading in to schest It 240% cherical gite - fields in an med gr. Cheavage 15° to the hong. Be ch?. matrix. cont - nono - almost like gtz. bleb schurt. 150'shap contact, muse - salist = 150 cleavage. 200 250' 300'-- Donk - could be approaching BIK schut.

DATE	SA FROM						L	LLL	ATION			100 m	PROJECT ARC			te	
DATE				BEARING	G	INC		LEN	IGTH OF	HOLE:			COMPILED BY	GR			
DATE	FROM	MPLE INTER	VAL		RECOVERY				ASSAY				Au	Ag		Cu	
		то	FEET	WT.	FEET	%	SAMPLE	Au oz	Ag oz	Cu %	2~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WO3 %					
				1995 - 1997 - 19	1.11									4.92/21.	and the second s	812/21.2+1.	1
	246.5		3.5			(7/255			2,14				6.75		75.7.49	
	250	252	2.0				712 56	-	0,72					1.45		6	
	255	255					712 57	-		0,14	-			1.50 17.10	/10++ 0.4	2 13.22%/10 pt.	1
	265.3	267.3	20				712 58		8.55	17.81	16,37			17.10			
	267.3	269.3	2.0				712 59		9.46	17.46	14.48			18.92	34,9	2	
	269.3	271.3	2.0	-			712 60		12.01	16.75	13,71			24.02	33.50	2	
	271.3	273.3	2.0				71261		5.31	5.76	7.27			10.62	11,57	L	
		275.3					71262		10.98	8.32	12.85			21.96	16.6	4	
	275.3						71263			0,96				1.94	2.53		
			21.2											104.26	144.2		1
			10					-						92.62	132.2	0	1
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* Depth	n at th	is ele	evatio	on			K	.C.C.			
SAMPLE	SAMP	LE INTE	RVAL	0	z/Ton		ASSAY				
NUMBER		1	FEET	Cu	Ag	Zn	*Au	*Pb	·		
71255			3.5			*3.96		0.8			
				2.14		4.30					
	250	252	2	0.78	0.72						
71257	252 2809,7	255	3	0.14	0.50						
71258	2809.7	267.3	3 2			14.95*	0.035	1.7			
71050	265.3				8.55		0.005	1 0			
71259	267.3	269.3	5 2			11.68*	0.025	1.8			
71260	260 3	271.3	2 2	And a second sec	9.46	11.59*	0 135	1.4	1	1	
11200	407.3	<u> </u>			12.01		0.100	1.4		1	
71261	271.3	273.3	3 2			5.69*	0.035	1.3	1		
		G		5.76	5.31						
71262	273.3	2799	7 2	8.27*	*9.0	9.36*	0.075	1.3			
		275.3		8.32	10.98	12.85					
71263	275.3	278	2.7	0.96	0.72	0.10					
	-										
	1										
	-										
								1			-
											1
	1	1									
1	1										
										-	
										-	
	1	l.,	L	1	I	l	1	L		1	1

PRO.	JECT: f	Ruby	Cree	k, Ale	aska			F	lole	No.		<i>q</i> -,	3	1	nter	val		320				То							Co	llar	Elev	•		29	85			Incli	nati	on	VE	RT
GR	APH		LC	DG					· · ·				F	RC		KS							-		CI	LA	ST	S				F	IL	LIN	VC	S			-			A
Graphic Log	.5		opper .5 2.0		3.0	Inclinati <mark>on</mark>	Composition	Grain Size	Composition	Color	Grain Size Composition.	Color	Grain Size	Color	Grain Size	Acces	\$5	Fossils	Misc. I	-eat.	3		% Color	Grain Size	Shape	Size	1ype Resol			%	Calcite Dolomite	Quartz	Other	Color Grain Size	Spec. Features	Width	-	Calcit.	Dolomit.	Oxidation	Porosity	Limestone
30						65.	¢	32	2.		2 a) p c g ~		X of a choice of a	Q 5 4 1 5 4 1 5 4 1 5 1 5 1 5 1 5 1 5 1 5	901 901 - L	teo Y fo Ch Brm	9 4 3	- To 2.1 - 410 - 410 - 410 - 410	folo - 1 . - 2 .		hist well f so gala	tm P																				
111110																																										
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4	11	F	R	AT		N			-					N	11	NI	R	A	LI	7	4 1	10		N	 -	-			_			
rimesione			Replacement	Rexlization	Other	Туре		%	E. Pyrite	Pyrite	Cpy.	Bornite	Tnt.	Chalcocite	Sphal.	Galena		Chalcocite C.	Bornite C.	CuCos	Limestone	Dolomite	LimeDol.	DolClast	r nyune	c v. 	D. Yn.	W. Vn.	Others		Est.	Assay.
													_																			
		-							_				-				-								 -			-				
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	-		-	-																	-				 	-				Page	25	of

GRAPHIC LOG ROCKS		Collar Elev. 2985	Inclination VERTICAL Bearing	Log	iger A. JOHNSON Date AUG. 1967 Sheet No. 4 of
	CLASTS	FILLINGS	ALTERATION		MINERALIZATION
Cobber % Cob		% Calcite Dolomite Quartz Other Color Color Color Spec. Features Spec. Features Width	Calcit. Calcit. Dolomit. Porosity Limestone Limestone Argillite Replacement Revlization Other	% E. Pyrite Pyrite Cpy. Bornite Tnt.	Chalcocite Sphal. Galena Pyrrh. Chalcocite C. Bornite C. CuCos Limestone Dolomite Lime-Dol. Lime-Dol. Dolomite Lime-Dol. Dolomite C. Vn. DolClast Phyllite C. Vn. DolClast Olhers Others
@ 250 - 1.0' of 50 ft pyrit alay.	tie-graphitic				
Locally pyritic - quartz band	ls predominate.				
84					
85					
@ 274.3' Massive, coarse gi section, similar to that	Pained, limy				1 total amout at sulphide decreases but py & po.
@ 276.5 - 5am + a = 2.30.0	le schist				
C 279. Some 05 278.3 C 280.5 Some 05 276.6 C 280.5 Some 05 276.6	5.				
@ 283.0 Same as 279.0 85 @ 284.5 Same as 276.5.					
@ 200. Linny Quartzose Musco med grained, granular, m	ouite Schist.			/-2	scattered and confined to
with poorly developed	toliation Carbonate				granalar bands which follow
core.	blotches through				phytepalpt Torration.
					314.8.516.2 - Gaudy con el sph.
e 316.5 Chorte Tale Qe uell developed tale port	ugateose Schist. Licularly along foliation	V strong calcore	045	5-9 V V 1-3 V	V coloured sph. V 320.9-321.6-scattered bands elong to hat ion

17 N

ARCTIC PROJECT: Rub y Creek, Alaska	Hole No. <u>4-3</u> Interval	То во	Collar Elev. 2985	Inclination VERT
GRAPHIC LOG	ROCKS	CLASTS	FILLINGS	A
Graphic Log 1"=10' .5 1.0 1.5 2.0 2.5 3.0	Inclination Composition Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Composition	% Color Grain Size Shape Shape Size Type Resol	% % Calcite Dolomite Quartz Quartz Calor Calor Calor Grain Size Spec. Features Width	Calcit. Calcit. Dolomit. Oxidation Porosity Limestone
	Carty quarter to? Carty quarter to?			

271	C.A.	72				Bearing	g					Lo	ogg	ger.	A	P. 2	10 1	en.	50	N			Da	te_	Au	9.	19	767	7	Sł	neet No. / of	0		
AL	. T	E	R/	AT	10	DN			-	-		-		N	11/	NE	R	A	LI	Z	A T	10	10	V								A.		
Limestone	Dolomite	Argillite	Replacement	Rexlization	Other	Туре		%	E. Pyrite	Pyrite	Cpy.	Bornite	Tnt.	Chalcocite	Sphal.	Galenã	Pyrrh.	Chalcocite C.	Bornite C.	CuCos	Limestone	Dolomite	LimeDol.	DolClast		Phyllite	C. Vn.	D. Vn.	Q. Vn.	Others		Est.	Assay.	
+	a	e+	y_	w	ear	Cat and the second second	most	<14		V	tr.		07	the fer	2	d t	nn	6	0/10/11	b	y-	9+		y 5 7 y 10		94		+ 2	£ ц.		hide priented			
54	10	c .//				grai.	uste*s **	3-5			e] 4.	39.	2 -	0.	3' 0+	-	01		1000	1000	0.00	air	28	1	e1		1,0		*	.+ 0	eria t			
*								1-3			G	40		aw	0.0	1	o t	4	m	n9 e d		10 10				>+0	74	. 10	1	py	rite.			
					X			13		~	0		1.5		10	C' . ' w	as or ea	f .	ba	1		q				an c to lia			2-4	10	hide			
<u>.</u>								1-3		1		23	3			13				1. 1.			c.c.	4.			4.1				ride			

PROJECT: Rub y Creek, Alaska	Hole No Interval80		Collar Elev. 2985	Inclination VERTICAL Bearing	Logger A. JOHNSON Date A46. 1967 Sheet No. 2. 9	of 6
GRAPHIC LOG	ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION	
Graphic Log 1"=10' .5 1.0 1.5 2.0 2.5 3.0	Composition Color	%6 Color Grain Size Shape Shape Size Type Resol	% Calcite Dolomite Quartz Quartz Other Color Color Color Grain Size Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Argillite Replacement Rextization Other	% % Pyrite Pyrite Pyrite Bornite Int. Cpy. Bornite Sphal. Sphal. Galena Pyrrh. Cuccite Sphal. Bornite Inte Dolomite Limestone Dolomite LimeDol. DolClast Pyrlite C. Vn. D. Vn. Q. Vn. Others	Est. Assay.
20 70° 73°	(meta-quartz-pebble congl?) © 83.0 Massive Quartzose. Muscovite Schist gronular quartz forming irregular blote sugary micacous matrix. Locally weak outlines can be tacognized, very weakl calcarcous @ 95.0 - 0.3' massive gaartz. lenses? (m.1ky 97.0' - 0.3' mixed with 20% Nery? Keavily (light coloared creary calcite.	white quarte				
	C 104' - Same as above but with very brown blatches predominant (prodobly of C 107' - Same as @ 83.0 but with main becoming chloritic. Massive, dense un fine graned chloritic bands (<0.5') C 114' - Massive milley gaarte band	weak oxidation				
20 		90) almost pure is matrix. foliation				
GMC Data Report 358						Page 28 of 97

RAPHIC LOG ROCKS	CLASTS	FILLINGS	ALTERATION	MINERALIZATION
Copper % column column column column column column column column column column .5 1.0 1.5 2.0 2.5 3.0 1.0 </th <th>% Color Grain Size Shape Shape Size Resol</th> <th>% Calcite Dolomite Quartz Other Calor Calor Calor Spec. Features Width</th> <th>Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Replacement Revization</th> <th>% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. Bornite C. Bornite C. Bornite C. Dolomite Limestone Dolomite Limestone Dolomite C. Vn. D. Vn. Others Others</th>	% Color Grain Size Shape Shape Size Resol	% Calcite Dolomite Quartz Other Calor Calor Calor Spec. Features Width	Calcit. Dolomit. Oxidation Porosity Limestone Dolomite Argillite Replacement Replacement Revization	% E. Pyrite Pyrite Cpy. Bornite Tnt. Chalcocite Sphal. Galena Pyrrh. Chalcocite C. Bornite C. Bornite C. Bornite C. Dolomite Limestone Dolomite Limestone Dolomite C. Vn. D. Vn. Others Others
By firefy door tesse Graphitic Gotite Schiel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t. Darg grey to black hay also be caused in well and noted bands Rock temains hotion appears rovelly ing wook ougens - like a a a a a a a a a a a a a a a a a a		<pre></pre>	25 × 6. V (C) 166. pyrific Sec from fegins aith pythe of stars of grander classfors of stars of grander action of stars of grander classfors of stars of grander (C) 1030 (C) 173. 0 ho' coarse pyrife. 71030 (C) 173. 0 ho' coarse proveder py. Coarse py. 5 socket of with 1 regular bands of fine grand 5 igory glorite

DJECT 003-00-0013 - Arctic

HOLE NO. DH - 3

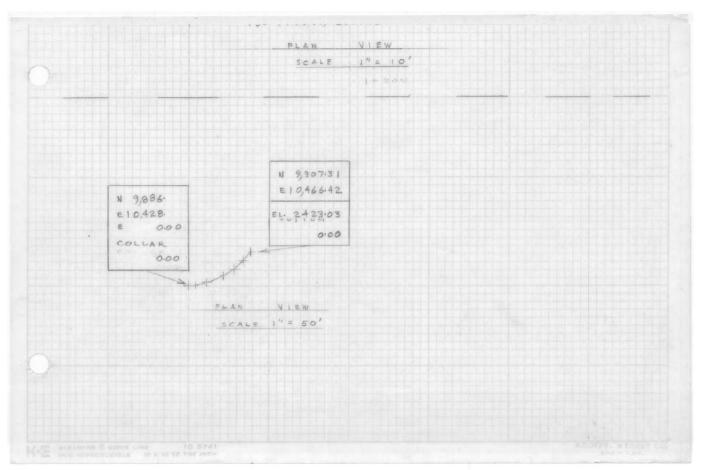
* Union

AS	SAY	LOG

KCC

SAMPLE	SAMP	LE INTE	ERVAL				ASSAY				
NUMBER	FROM	TO	FEET	Cu	Pb	Zn	Ag	Au		1	
71083	314.8	316.2	1.4	5.83		8.23	1.44	1	1	-	1
71085	316.2		4.7	1.39		0.23	0.62	1		1	
71084	320.9		0.7	2.66	1	1.60	0.67	1		1	
71086	321.6	322,0	0.4	1.24		0.41	0.41	1			
71087	322.0		2	0.31		0.11	0.25	1			
		02.10		0.01	1	- 0.11	0.20	1			+
96360	428	431	3	2.90	.012	.09	0.41	0.02			1
								0.02		1	1
96361	436.5	437.5	1	0.41	.002	2.15	.13	0.01			-
							1.10	0.01		1	
96362	464	465	1	<.01	4.01	<.01	02	40.01			
							1.02	-0.01			
96905	530	532	2	.69	.02	.03	.42				
96906	532	537	5	.82	.47	1.2	.75	1		1	1
						1.12				1	
						1					1
			-				1				1
									1		
										-	1
											1
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						1			1	1	
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							SL	RVE	Υ -	TABU	LA	TION	N S	HEET	F						
				MINING				and a second	- Sta			w-	-	k		HEET NO	p. <u> </u>				
		D. D. ARCT		# 3	(1970	2 .)			Ŋ			W	S	——— E	J	OB NO.		-60 LY 7/		13	
CORRECTED	MEA	SURED EPTH	VERTIC	AL DEPTH	ANGLE OF INCLIN-	COURSE		DIREC	тю	N OF IN	CLIP	NATION		MEASUR	ED COUR	SE DISPLA	CEMENT	т	OTAL DIS	PLACEMEN	Т
TIME	COURSE	TOTAL	COURSE	TOTAL	ATION	DEV.		OBSERVE	D	CORR.	0	ORRECTI	ED	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST
	50	50	50.00			-	÷		-	-	-		-	-	-	-	-		-	-	
	100	150		149.90				64000				8830		0.12		4,36		0.12		4.36	-
		250	and the second second second second	240,63		7.41					N			2,35		7:03		2:47		11:39	
	125		124,53		5°00			44030			N			3.90		10.18		6.37		21,57	
	100		99.66		4°45			33 30		A. X.	1.25	58'00		4.39		7:02		10.76		28.59	
_		550		548.45		7.51				+ 6		48'00'		5.03		5.59		15.79		34118	
	50	600	49.52	597.97	8'00'	6.96	N	13000	E	+ 0	M	37°30	E	5.52		4.24		21.31		38.42	
			EY 97.97			1	-		-		-			\$21.31		2 8 8.42					
			591.91					1			1			761.51		38.99	-				
			-				1			1	1										
			CORE	503	MAG	DECL	1	15		220	20	I Ea	st								
						1															
	160	150								8	N										
		250				1						67020						-			
		375				-	_		_		-	56°50									
		475									-	55050	4								-
		550					-		-		-	45°50' 35°20'	-		-						
	-	600				-	-	-	-		-	22 20	-			-	-	-			
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	1.1.1.1																				
DONE BY:	1	port	July	31/20																	
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SAMPLE RECORD

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E1 3021

PRO	JECT :	ORKING	PLACE	DA	- 5			_		SAMP	LER				DATI	E / /67
Sample		Sample	True	Co	n	A	4	2	n					Chan.		
Number	Location	Length	True Width	Assay	Assay Feet	Size	Wt.	Remarks								
71083	314.8-316.2	1.4	8.16	5.83			2.0		11,52							
71085	316,2-320,9 2w1349'4 ft 320,9-321.6 2w 15,16 A ft	\$.7	5,14	1.39		0,62	2.3	0.23	0.85	-						
71084	320.9-321.6 Que 15.16 4 Ft	0.7	1.86	2.66		0,67	0.5		1.12							11
71086	321,6-322.0	0.4	0.50	1.24		0.41		0.41								1
71087	322.0-324.0	2.0	0+62	0,31		0.25		0.11	-					_		
	314,8	-321.	6 6	.8'	51	45%	2 Cu									
											1					
					1	982	Ag Z.	-								
								-								
	~ · · · · · · · · · · · · · · · · · · ·															
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													1			
																1
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			DN	ZATI(ERALI	MIN	PPM		TH*	DEP
REMARKS	ROCK TYPE		ZN		PB	AG	AU	INTERVAL	TO	FROM
-70	T. SLICHL. MUSC. QTZ. SCH	i	.09	2,90	.012	,41	:02	2.4	431	428
			2.15	.41	,002	,13	.01	1		
BACKEROUND			2.0		2.01	:02	4.01	1	465	464
			.03		,02			2	53Z	530
			1.2	.82	.47	,75		5	537	532
										00
					2					
					1					
					1					
									2.00	
ASSAY	HOLE									
	ICAL / DEPTH 600 TRUE	OF / V	AGE /	3 P	LE NO	HO		ARCTIC 05-00-	OJECT	NWD PR

HKD, BI	DATE			1970		0.05-00-0	C
		SURVEY	JULY	7.1.7.9	······		
				1	1		1
	DIESCOCHOS	INTER VAL	INCL. 4	OBSERVED	CORRECTED	COURSE	Ace um.
STATION	DIFFERENCE	ANTERVAL	Inchi 4	BEARING	BEARING	HOR. PEV.	HOR, DEV.
				and the second sec			
0							
	100'	50'- 0= 50					
100'	100	5.0 50					
100	,			N64°00' E	N 88° 30' E	4.36	4.36
1.	100'	150' - 50=100	2 30	N64 00 E	N 98 30 E	4:36	4:26
200'		And the second of the second					
	100'	250'- 150=100	4° 15	N 47° 00' E	N71 30 E	7:41	11.77
3.00'							
	150'	375 - 250=125	5°00'	N44° 30' E	N69000'E	10.90	22.67
450'							
150	1001	475' - 375=100	4 • 45	N33°30'E	N 58° 00' E	8.28	30.95
	150'	475 - 375 - 100	4-45	M 23. 20 E	130 00 E	0.70	30175
500'							and the second second
	100'	550' - 475 = 75	5 45	N 23030 E	N48 00 E	7.51	38.46
600'							
		600 - 550 = 50	8.00	N13000'E	N37°30'E	6.96	45.42
		and the second se		-			
							10.15
			Fr-				
				-			-
							1
							111111

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second could be a leave the take the

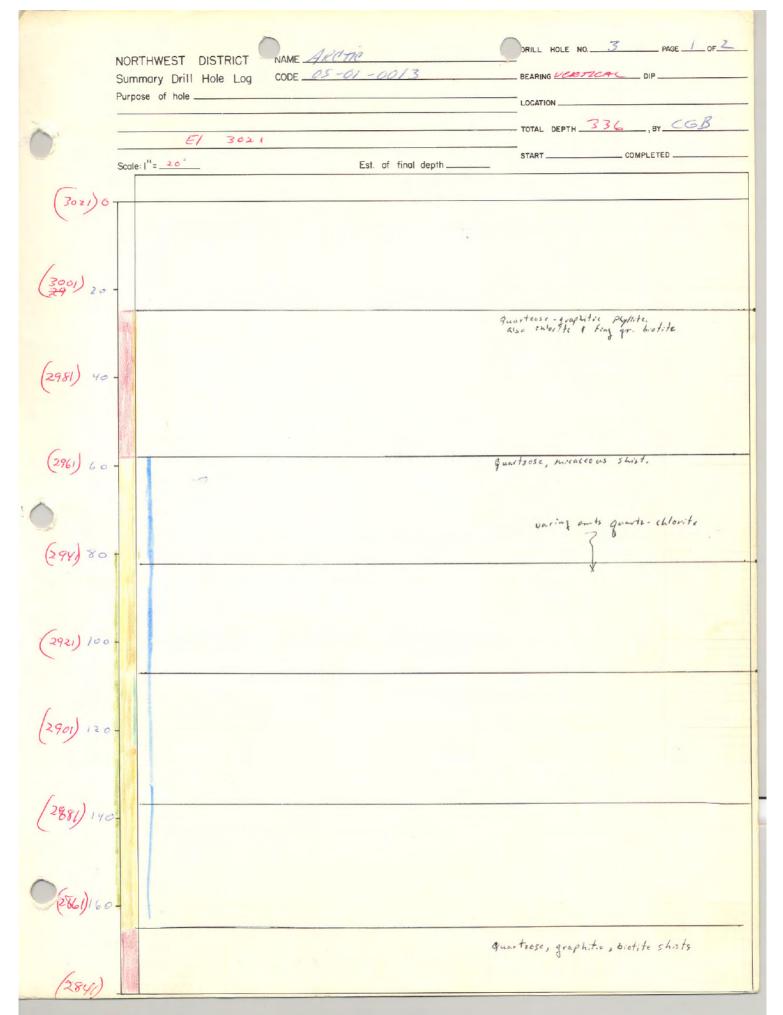
ole	Surv	yey Poin	nt		At		Dev	iat.	Bottom	Location	n
No.	Depth	Bear.	Inclin.	Elev.	North	East	Vert.	Horiz.	E1.	North	East
# 3	0			302110	9.886.	10.428.					
	50			2971	9,886	10,428	50.00				
	150	N 8830'E	2° 30'	2871.10	9.886.12	10,432.36	199.90	4.36			
	250	N71º30E	40 15'	2771.37	9.888.47	10,439.39	99.73	7.41			-
	375	N69 00 E	5000	2646.34	9,892.37	10, 449, 57	124.53	10.90			
	475	N 58 00'E	4° 45'	2547.18	9,896.76	10.456.59	99-66	8.28			
	550	N43 00E	5" 45'	2472.55	9901,79	10,462.18	74.63	7151			
	600	N 37 30'E	3° 00 '	2423.03	9.907.31	10,466,42	49.52	6.96			
	_										
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ARCOIC PROJECT			FRILLO VI	
<u>-00-0013</u> CODE NO.	PNY S.	IGNI FICAN	of Manster	ALIZATION
<u>3</u> HOLE NO.	BELOW	010	DEPTH OK	336
9,886 NORTH		HOI	LE SIZE	
10, 428 EAST	FROM	то		CONDITION
VERTICAL INCLINATION	336	600	BXWL	NO CASINC
BEARING				
6/18/70 START > 1970 DEEPE	NING			
6/26/70 COMPLETE 5	PIRPOSE .	To To	EST POSSIB	WITH DE
			EALIZ MOTON.	
GOO DEPTH	DEGUE	11 M B30	FAREN OF	600 PUT
FIRGAN DATA BY			TO PENC	
NS: NO PATARE DEEPENING				M 336-7600
OF HOULS AT NORST END	SIGNIFICAN	.E. 77	HOUGH DD.	1/ # 3
OK OKE BODY.	PENETREN	reo sai	HOES UP 1	TO 2,90% C4
	6			ICHE ENOUGH
	TO M	NRE HI	V ORE H	948

DRILL HOLE NO. 3 PAGE ____ OF_ Arctic NORTHWEST DISTRICT NAME CODE _ BEARING Summary Drill Hole Log DIR Purpose of hole ____ LOCATION TOTAL DEPTH_ BY Scale: |"= _____ _ COMPLETED Est. of final depth 263 START _ 0 Gradational contact. 50' clean - homo - chlo muse sildeous scheet. conductional contact, typical rek. porphyry unit Extremely hono-cencishort express, - jord unit. - sharp contact. - Typical home. silicenes black schiet. 200' Premature batton 300

		Summary Drill Hole	Eog	BEARING DIP VENETICAL
			YECK POSSIBILITY OF DEEPEN HORIZONS IN NORTHERD	LOCATION 9886 N 10, 428 E.
		END OF		TOTAL DEPTH 600 , BY P.R.F.
0				START 4/18/70 COMPLETED 6/26/70
		Scale: $ ''= 50'$	Est. of final depth 600	
	300 -	DATA. 90	DESCRIPTION	
		-1.2.3.4.5.6.7.8.9		
			LT. BILVERY GRN. CHY, TALCY. SLI. CIN	16. MUS. QTT. SCH. W
	350-		BCCASSIONAL. ZONES 40 TO 2 F7.	
			AND SOME CALC. MINOR PY. IN	
			5% IN DTY. GRY. SCH. FOL. 2	
			A/A LT. SCN. DOM. WITH. WI. VA.	CIALC DIR. + MICA
	400 -		DISTRIBUTION. FOL. 2 10-150.	
			24.	
			A/A. SCH. V. LT. IN COLOR. WITH	
	A50 -		OF MUSC. + TRUC. FOL. & 10°. C. WITTO SIGALL FOLD BT 450.	
			UP TO 428 MINON. PT. 428-	
			OK CPY. * 2 190. 436.5-437.	
			SMALL IRREG. STRINGERS CPY	
	500 -		SCH. A/A. MINOR PY, SCH. SC FNF. PORPHYRO. FOL. = 10-150 C CALC. SCH. ZONES W. 3-490 PY.	OMEOMES ITAS V. OCCASSIONAL, SLI:
			5CN. A/A. PY. UP. TO 3%. FOL 530-532 (ASSINY. SMP. 96905) = 5	- 2 10° - 20 19 1900 CM4.
	550-		532-537 (ASSAY, SMP. 96906) ~ 2 BUT MAINLY. PY. FOL. 5 60	20 JALK. SOME CP9, SPHAL.
			SCH. 17/A. W. SOME Q72. PORPIO 2190 Pt.	19ROBLASTS. FOL. V. POOR.
	600-	7. 2. 600	A A POOR. DEUKL. OR. PORPHYRO.	MINOR 194 2 190
			ASSAY SAMPLE FOOTHER	Cu 20 Pb 20 Zn20 Ag 7/400
				.69 .02 .03 .42
			96906 532-537	
			96361 436.5-437.5	2.90 .012 .09 .41 .41 .002 2.15 .13
			96362 464-465 54MMARY: DDH 3 TERMINATED	1.01 1.01 1.01 02
			TO GOD WITH PENETRATING SI	
			MASSIVE SULFIOL MORIZONS AT OREBODY.	NORTH END OF
5				

DRILL HOLE NO. 3 PAGE OF 2 Jo Pl NAME ARCTIC DISTRICT ORTHWEST CODE _05-01-0013 BEARING VER TICAL DIP Summary Drill Hole Log Purpose of hole CanTINUE TEST of MINERALIZES LOCATION . TOTAL DEPTH 336 BY CGB 3021 START 8/9/67 COMPLETED 8/12/67 Scale: |"=_20" Est. of final depth. Aq 20 Pb cu An Remarks 2 3 (3021) 0 6 6 8 10 12 4 6 The blue colors pres Convesponde to pres Color Scheve. 5 Ha rush 10h Phil - This . I did with Jefut book you must have anything the, Dick reloged - It's his color strip to Flight. 20 DK Gray quasticase mua schist (200 Dips (2981) 40 Dips = 5-100 (250) (2961) 60 Ga Light gray quartiese mica schist (25%) 6941)80 Chloritic "pebbly" quartoose schiot 292/100 Dops flat 299) 120 gray quartite (2881) 140 6/60 r DK gray- Grayish black Graphitic School . A 2841



GMC D	ata Re	port 358
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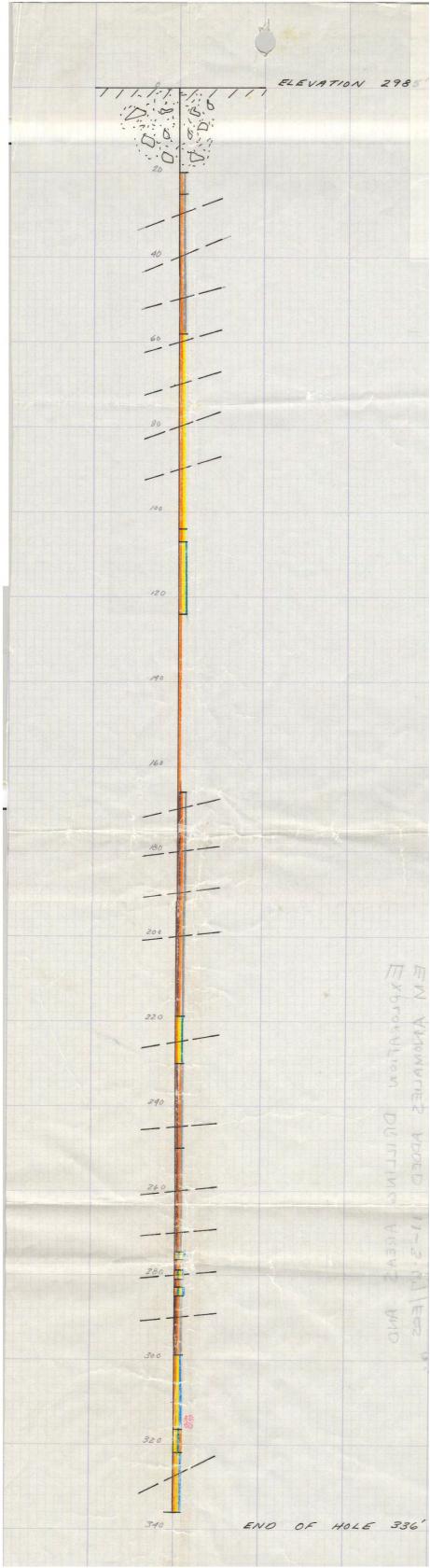
	NORTHWEST DISTRICT		ette	0	DRILL HOLE	NO. 3 PAGE 2 OF 2
	Summary Drill Hole Log Purpose of hole	CODE	-01-0013		BEARING	EERCAL DIP
					LOCATION	
-0	E1, 3	521			- TOTAL DEPTH	336,BY_CGB
	Scale: "= _20'		Est. of final depth _		START	COMPLETED
(2841) 180	2 4 6 8 10 12	246	2 4 6 8 10 12	An ,	234	Remarks
(2821) 200						Dep 5 5- 10 "
(2801) 220					C	Comphitic unite -cont-
(2781) 240						Dims ± 10 t
(2.761) 2.60						
(2741) 250	-					Limy Quartzose Museovitt
(2721)300						Limy quartrose muscovita to tale shisto.
(2701) 320 REE 340						
\$661)360						-

4		NORTHWEST DISTRICT NAME ARCTIC OF DRILL HOLE NO. 3 PAGE OF
0		Summary Drill Hole Log CODE CODE BEARING DIP
		Purpose of hole <u>CINECK POSSIBILITY OK FUNCTION</u> MINICKRELIZATION WITH DEPITH
0		TOTAL DEPTH, BY
		Scale: "= <u>20'</u> Est. of final depth <u>310</u> START COMPLETED
	300	
	320	
	340	TALCY = LT. SILVERYAGEN, SLI. CHL. MUSC. OTZ. SCH. FOL. 2 10° NO SULFIDES DT4. GE4. CHL. MUSC. GT7. SCH. W FAINT PORPHYRO. BLASAC APPEAR. DISSEM. PY. TO 2 550. SLI. CRIS. (IQUIF. 344-345) FOL. 210°
	360	DISSEM. PY. TO 2 530. 561. CALC. (LANIF. 344-345) FOL. 210° H. IRREG. GFZ. & CALC UN. 348-349 345-7 419.5 LT. SILVERY CHEN CHEN. CHL! MUSC. &72 SCH. CHL. CONTENT QUITE VARIBLE THREWGHOUT SECTION. ARE SOME V. TALCY 20NES I. C. 397.5, 373.5 (POSS FLF) 376.5, 38615. FOL. 350 = 10° 380 = 5° 400 = 15° SULFIDES V. MINOR 2 120 PY.
	380	
	400	-
	426	- DTY. CKY, CHL. MUIC. QTZ. SEII. W FRONT PORPHYROBLASST AS IN 344-345. V. POOK POL. SLI. CALC. SUCKIDES DISSEM. CUBIC PY. UP TO 3-490 W THREE ON CPY. (UNIF. 419.5-420.5)
	440	430 = 10° 440 = 5% 450 = CARNOES BERMPTLY, 10° -> 50°
	460	445 - 465 V. LT. SILVERY GRN. MUSC. Seld. W.
	480	DISTINCT, LENSES OK MUSCOULTE. QUILE TRUCY IN PUNCES A FOL. 451. BACK TO \$ 10° * NOTE FROM & 452 -> FCHIST HAVE FUT. PORPHYROBURSTS.

NORTHWEST DISTRICT NAME $DEST-OP-BOL3$ NAME IDE Puppes of the Categor Poist NAME IDE IDE MARKENULS NO NAME IDE Markenuls NO NO NO NO Markenuls NO NO NO NO NO Markenuls NO NO NO NO NO NO Sole ("-ZO Ex at Ind segn. BIO NAME NO NO NO NO Sole ("-ZO Ex at Ind segn. BIO NO NO NO NO NO NO Sole ("-ZO Ex at Ind segn. BIO NO		NORTHWEST DISTRICT NAME ARCONC DRILL HOLE NO. 3 PAGE / OF
Purpose of holeCOLSECAL POSS. MINERALIZEDICOLATIONTOTAL DEPTHNOR RELEXANDSocie 1":= 20Est of find depthSocie 1":= 20Socie 1":= 20Est of find depthSocie 1":= 20Socie 1":= 20Socie 1":= 20Est of find depthSocie 1":= 20Socie 1":= 20Est of find depthSocie 1":= 20Socie 1":= 20Socie 1":= 20Socie 1":= 20Socie 1":= 20Socie 1:= 20Socie 1:= 20 <t< th=""><th></th><th>Summary Drill Hole Log CODE 05-00-0013 BEARING DIP</th></t<>		Summary Drill Hole Log CODE 05-00-0013 BEARING DIP
$\frac{1}{300} = \frac{1}{300} = \frac{1}{300} = \frac{1}{300} = \frac{1}{100} = \frac{1}$		Purpose of hole CHECK POSS. MINERALIZED
Scole 1": 20 Est of final depth $\underline{810}$ START COMPLETED Scole 1": 20 SUBJECT: PRIM. PY. IN THIN LENSES. PARALLEL OD ROL. PY. LENSES MARY MARKE UP VO 3-430 IN PRACE. FOR CAECK OF POST. CPY. & SPINE. CONTENT. SAMARE. 962 \rightarrow 465 S20 NO DISSER, PY. UP RO 326. A65-75 \rightarrow 470.5 LT. GRY GKY. V. POOK. KOL. MUS. OT. SCH. (CALC). W DISSER, PY. UP RO 326. A65.75 \rightarrow 470.5 LT. GRY GKN. V. SLI CHL. MUSL. OT. SCH. AS IN 445-465 FOL.=10° SOLFIDES AS IN 445-465 LENSES OF PY. UP RO 3-430 IN PRACES S40 470.5 \rightarrow 471.7 CALL SCH. AS IN 465-465.75. I-270 PY. 471 \rightarrow 472 SCH. AS IN A65.75 470.5 FOL =10° FRINTLY PORPHYTICOBLASSIL 472.5 $\stackrel{+}{4}$ NEAR 90° CALC UN. OUFSET $\stackrel{+}{4}$ PAR. TO FOL. SULFIDES IN LI. SCH. AS IN 465-465.75.	0	
Scale "= 20 Est of final depth <u>810</u> Successes Preserve up to set of the provenue of the pr		
$SACFIDES . PERM. FY, MA MORE UP TO 3-430 IN PLACE, FOL. DY. LENSES MAY MORE UP TO 3-430 IN PLACE, FOR CHECK OK POST. CPY. & SPAME. CONTENT. SAMPLE. 463 \rightarrow 465365 - 465.75. DTY. GKY. V. POOK. FOL. MUS. OTT. SCH. (CALC). W. DISSEM, PY. UP TO 320. 465.75 \rightarrow 470.5 LT. GKM. GKN. V. SLI CHL. MUSC. OTZ.SCH. AS IN 445-465 FOL.=10° SACKIDES AS IN 445-465LENSES OF PY. UP TO 3-490 IN PLACES540 - 470.5 \rightarrow 471.8 CALC SCH. AS IN 465-465.75. I-270 PY.471 \rightarrow 472.5 CALC SCH. AS IN 465.75 - 470.5 FOL = 10°FRINTLY POKPIFYROBLASSTIC.472 - 472.5 CALC SCH. AS IN 465-465.75. K-465 - 3 475. \pm " NEARE 90° CALC VN. OVESET X = 4 PAR. TO FOL. SULFACES IN LT. SCH. + CALC SCH. 472.5 - 492 LT. SILVERY GET. CHN. SCH. AS IN: 471-3472$		Scale: I"= 20 Est. of final depth 810 Start Completed
$SACFIDES . PELM. FY, MA MORE UP TO 3-430 IN PLACE. FOL. DY. LENSES MARK UP TO 3-430 IN PLACE. FOR CHECK OK POST. CPY. & SPIRM. CONTENT. SAMPLE. 462 \rightarrow 465520 - 465.75. DTY. GKY. V. POOK. FOL. MUS. OTT. SCH. (CALC). W. DISSEM, PY. UP TO 320. 465.75 \rightarrow 470.5 LT. GKM. GKN. V. SLI CHL. MUSC. OTZ.SCH. AS IN 445-465 FOL.=10° SACKIDES AS IN 445-465LENSES OF PY. UP TO 3-490 IN PLACES540 - 470.5 \rightarrow 471.8 CALC SCH. AS IN 465-465.75. I-270 PY.471 \rightarrow 472.5 CALC SCH. AS IN 465.75 - 470.5 FOL = 10°FRINTLY POKPIFYRO BLASSTIC.475. ‡" NEAR 90° CALC VN. OVESET x = 2^{H}PAR., TO FOL. SHUFFY GK. SCH. AS IN 265.75. H CALC SCH. 472.5 - 492 LT. SHUFFY GK. SCH. AS IN 27.5CH. AS IN: 471-3472$	100	
$S20 = W. DISSEM, P4. UP TO 390. A65.75 \rightarrow 470.5 LT. GRY. GRN. V. SLI CHL. MUSC. QTZ.SCH. A5 IN 445-465 FOL. = 10° SALFIDES AS IN 445-465LENSES DF P9. UP TO 3-490 IN PLACES470.5 \rightarrow 471.8 CARE SCH. AS IN 465-465.75. I-290 PY.471 \rightarrow 472 SCH. AS IN 465.75-470.5 FOL = 10°FRINTLY PORPHYTROBLASSTIC.472 - 472.5 CALC SCH. AS IN 465-465.75. & 465-3475. \frac{1}{4} NEAR 90° CALC UN. OUFSET \frac{1}{2}PAR. TO FOL. SULFIDES IN LT. SCH. + CALC SCH.UNCHANCED. PRIM. PY.472.5 - 492 LS. SILVERY CEY. CHN. SCH. AS IN 471-3472$	300	FOR CHECK OF POSS. CP4. + SPIDIL. CONTENT. SAMPLE.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	520	W. DISSEM, PY. UP TO 3%. 465.75 -> 470.5 LT. GRAY. GRN. V. SLI CHL. MUSC. OTZ.
471 -> 472 SCH. AS IN A65.75-470.5 FOL =10° FRINTLY PORPHYROBLASTIC. 472 - 472.5 CALC SCH. AS IN 465-465.75. & 465- 475. # " NEAR 90° CALC UN. OUKSET & #" PAR. TO FOL. SULFIDES IN LT. SCH. + CALC SCH. UNCHANCED. PRIM. PY. 472.5 - 492 LT. SILVERY CKT. CHN. SCH. AS IN: 471->472	<u>0.5</u>	LENSES OF PY. UP TO 3-490 IN PLACES
FRINTLY PORPHYTROBLASTIC. 472-472.5 CALC SCH-AS IN 465-465.75. 10465-3 475. # " NEAR 90" CALC UN. OUKSET & #" PAR. TO FOL. SULFIDES IN LT. SCH. + CALC SCH. UNCHANCED. PRIM. PY. 472.5-492 LT. SILVERY CKY. CHN. SCH. AS IN: 471-3472	540	
475. 4" NEAR 90" CALC UN. OVESET & 1" PAR. TO FOL. SULFIDES IN LT. SCH. + CALC SCH. UNCHANCED. PRIM. PY. 472.5 - 492 LT. SILVERY CRY. CHN. SCH. AS IN: 471->472		FRINTLY PORPIFYROBLASTIC
PAR. JO FOL. SULFIDES IN LT. SCH. + CALC SCH. UNCHANCED. PRIM. PY. 472.5 - 492 LT. SILVERY CRY. CHN. SCH. AS IN. 471->472		
472.5 - 492 LT. SILVERY CKY. CHN. SCH. AS IN. 471->472		
472.5 - 492 LT. SILVENY GET. GAN. SCH. AS IN: 471->472	-	
	12	

AR-03 Log

	NORTHWEST DISTRICT NAME.	DRILL HOLE NO PAGE OF
	Summary Drill Hole Log CODE. Purpose of hole	
		LOCATION
	Scale: "=0"	Est. of final depth START COMPLETED
490		
	1 492-525	Lt. Silver gray gtz musc schist with pyritic band composing Less than 1% of the rock - foliation 8° off hor
510	2. 525-530	Ligragish bands of subphides in Li gibver gray gtg- muse, schists, Bands of pyrite more common - perhaps 3% of rock
5 30	- -	Same silver gray rock as above but with Larger bands of sulphides (4"- 3" thick) with approx 5% pyrite Y 1% chalcopyrite
550	4, 532-53	1 Lt. silver gray anit as # 1 above except contains approx, 2% onlybides - some sphalorite & chalcopyrite but mainly pyrite
	5, 537 - 5'	10 Lt silver gray qtz muse schist as # 1 above with 1-2% pyrite foliation 6°
570	6 · 570 - 59	10 Lt silver gray qtz muse schist with Some qtz porphyroblasts. foliation not very distinctive. Sulphides: Nery minor pyrite pyrite <1%
590	590 - 0	POOR FOL, MINOR THE PY. < 120
	- TD 61	90
D		



GMC Data Report 358

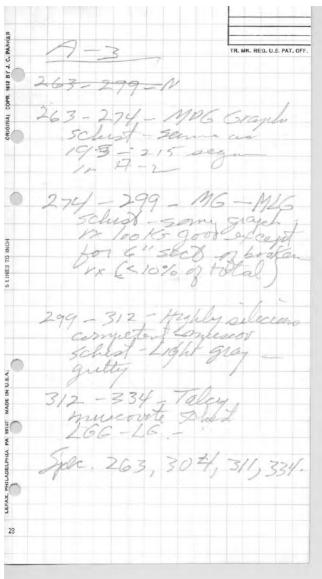
Page 46 of 97

PR ,ECT Arctic Rig 40C HOLE NO. 3

ASSAY LOG

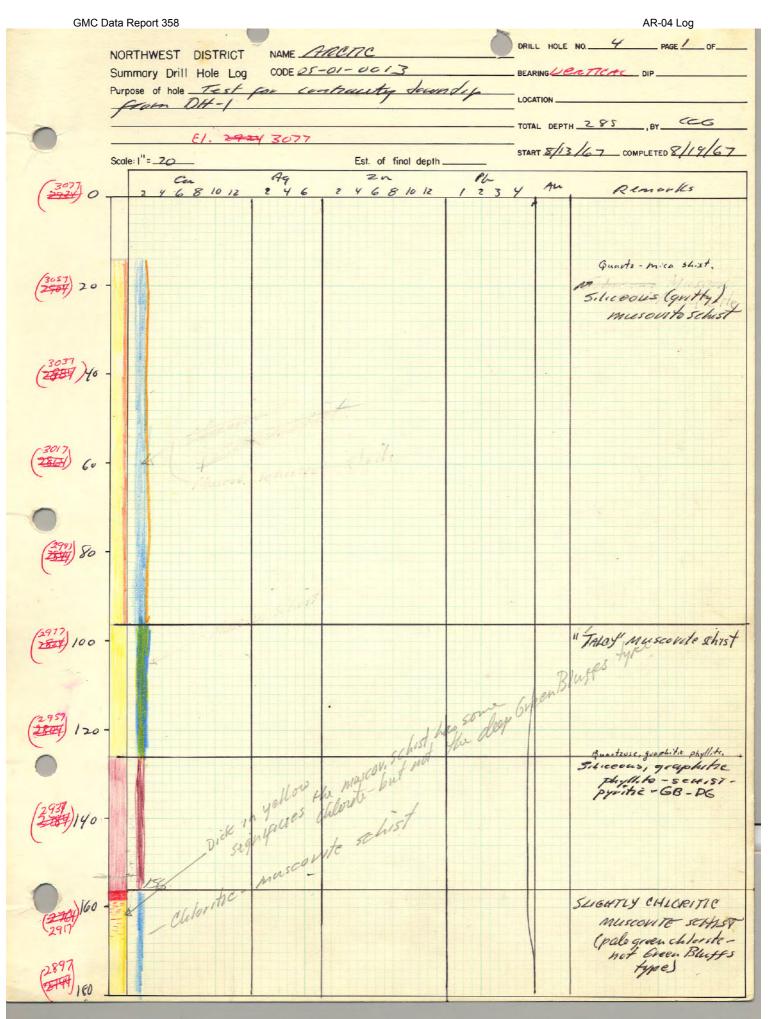
SAMPLE					[ASSAY		T		1
NUMBER	FROM	1. 10	FEST		Hrs. Se	Hing Up	Hrs. U	ledging			#
A	Dri	Uing -	Feet	Rate	or 5to @ \$16	ndby	or Suri @ 25	eying_	Rem	ants	\$
Date	NX	BX	AX		@ \$16		@ 25				
6/12									Unterlin		72.
6/12									11	18hes	144.
6432					190	事物二月			m	na	216.4
6/13					9	Conside 1	rentedas	Lateria)	1		149.
6/13					4/2	1	- 46 - A-	19.			72
6/15				ļ	30	and the			Celate dine	12tus.	149.
6/15					1/2 7	thematily	-		Water In	6 km	72.
6/16					3 1/2	12 2 5 5			11	2hrs	72.
416					7	Cr. 201			4	glis	144.
6/17		L			9	-					144.
6/17					9	-					14.4.
5/18		10		8.65					attes ton -	Nille.	86
6/19		25		8.65					attes town +.		216.2
6/21		47		8.65		2			ottos town 21	h N.C.	406
6/22					1/100						16.0
6/22		70		8.65							605
6/27									Deterline	Mask	69.0
6/23		5		8.65						/	43.2
1		45		9.30							418.5
6/24		28		9.30							260.4
6/24									Waterline ?	The.	16.0
6/25		11	Ì	9.30							102.3
6/26		16		9.30					Hole com	eleted TD	
									10-000	-	210.10
	1								Tital	3	536,0
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GMC Data Report 358 AR-03 Log



GMC Data Report 358 Page 48 of 97

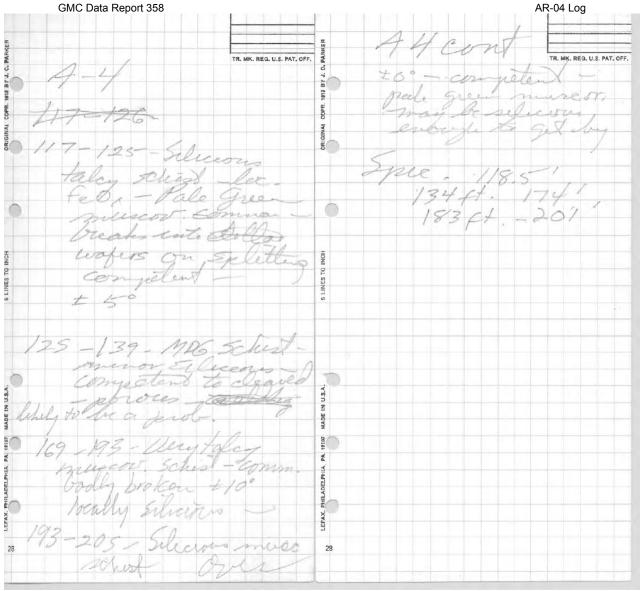
AR-04 Log GMC Data Report 358 DRILL HOLE NO. 4 PAGE . Arctic NAME ____ NORTHWEST DISTRICT 1468 lan CODE _ Summary Drill Hole Log BEARING _ DIP Purpose of hole _ LOCATION TOTAL DEPTH. START . _ COMPLETED Scale: 1"= 50' Est. of final depth. 0' & skarn? Typical sil. muse chl. retient grading into schist sorphyry. typical integradational sequence 50' 100 150'-200 CORE 250'almost the sericitic tale facies. the care at R.C. 1911



AR-04 Log GMC Data Report 358 DRILL HOLE NO. 4 PAGE 2 OF 3 NAME ARCTIC NORTHWEST DISTRICT CODE 05-01-0013 BEARING WERETRCAL DIP. Summary Drill Hole Log Purpose of hole ____ LOCATION TOTAL DEPTH 285 , BY CGB E1- 2924 EL 3077 START ____ COMPLETED ____ Scale: 1"= 20' Est. of final depth. scienty Silveous muscoute Schist A) 200 "TALCY" Muscourte schist 220 Highly schistoce muscov. Qtzite - sanly 220 SLIGHTLY SILICEOUS muscoute schist quarte chlorite shirst. Cozese grained teep queen "tally" chlorite Schist - with (250 260. consid. muscovite 280 320-3210-

GMC Data Report 358 AR-04 Log 121/67 MK, REG. U.S. PAT. OFF. 0-14 - Specklee TR. MK. REG. U.S. PAT. OFF. 126-153 DG-68-Biot-graph? gearnety mensive chlorite scheed - pyritic Ca = 1-2% as Cpy 146-5-155 glatic r 14-96 - Pile green geliceous micescov schiet - loca 153-156.5 CRIGINAL haron intensely oxidine Silveous mucor brotile 30xes - 10°+ Thist- dull dk-med gray sheen Dissen . py-cpy-spalony Idean I 1% Cer 15605- 158 - Mass, py- Gay-Cu + 4-5% scheet - menor Halek INES TO INCH Stal25 1585 -161 - Chlorete - meacor. schied with blobs Cp, py and dessen Sp. 3=5% Cu 161-167- Messer dessen granular py-Sp. 14 in minor schiel MADE IN U.S.A with variable of Cu 5-7% 167-169 - Same as above - with 18107 Chlerete, and 325 ×4 5% bo, 96-126 - Vale green - wh - lot green mucer school - draw py. loc. of deged - 2 ft Ovn at 114.5 - # 10° Loc. green Speckled childrite of lash. 169-181 Same as 1817 28

GMC Data Report 358 AR-04 Loa 21/67 TR. MK. REG. U.S. PAT. OFF TR. MK. REG. U.S. PAT. OFF. 256 243 - 2007 Councers. 181-208 - Muscer - senede taley homory serverte chlorite scheest. mescor sched. ORIGINAL ± 100 243-251 - Menor che, 251-253,8 1-3 Cer 208-209 - Deep grienchel. school gougigy - crumbly ces Cpy - consid Zr . 253.8.2 Cu < 190 209-223 - White - Of gray huncor scheet 256-285 - Scleecour palo green muscor chilerite schiet Cu ± 1% Cpy 216.5=217.5-Cu Negl. 217.5-222 ±50 dup. Qu1-202 222-223 223-227 - Muse Servert Selectore glyite U.S.A. Cpy, Bo, Sp, Gr Z Z MADE Car ± 12% poor 19107 PA ±10° dep PHILADE 227 243 poor Car recor. Jougy light Tale museod Selvert FFAX 28 28 227-229.9-Cu 1-390



HOLE NO. DH-4

ASSAY LOG

* Union KCC

SAMPLE	SAMP	LE INTE	RVAT		ASSAY									
NUMBER		1	FEET	Cu	Pb	Zn	Ag	Au	1					
71291	119	126	7	0.06	1.0	0.11	0.26	710						
/12/1	117	120	- ·	0.00		0.11	0.20							
71281	141	146.5	6.5	0.08		0.08	0,35							
71282	146.5	149	2.5	1.44		0.10	0.53							
/1202	140.5	147	2.5	1.518	*	0.10	0.00	.010*						
71283	149	151	2	1.28		0.11	0.53	.005*						
71200	14/	131	6	1,340	*	1 0.11	0.00	.000						
71284	151	153	2	1,68		0.31	0.59							
71285	153	158	5	4.40		6.71	1.32							
71286	158	161	3	3.55		4.19	1,03							
1.1.4.5							1.3*	.010*						
71287	161	164	3	4.50		13,11	1.32							
71288	164	167	3	0.51		12.33	1,12							
71289	167	169	2	2.41		4.46	0.82							
			-	2.454	*		0.6*	.010*						
71290	169	171	2	- 0.01		0.08	0.38							
	1.1.2													
71268	214.5	216.5	2	0.04		0.11	0.38	1						
71269	216.5	217.5	T	2.21		2.93	0.53							
					* 0.4*	2.9*	0.3*							
71270	217.5	222	4.5	0.02		0.34	0.35							
71271	222	223	1	0.84		0.14	0.41							
71272	223	226	3	18.51		7.41	8.79	1						
				18,35*	1.0*	8.0*	15.1*	.075*						
71273	226	227	1	7.65		14.65	1.82							
				7.64*			1.90*	.005*						
71274	227	229.5	2.5	3.41		1.29	0.85							
71275	229.5	231	T.5	0.14		0.23	0.41							
71276	242	243	1	2.00	1	0.85	0.56							
71277	243	251	8	0.01		0.06	0.38							
71278	251	252	1	6.33		12.87	2.71							
				6.704	*	15.4*	3.7*	.005*						
71279	252	253.8	1.8	3.06		1.68	0.68							
71280	253.8	256.5	2.7	0.16		0.08	0.35							
		2												
		1												
		1					1							
	1													

BC 12-66

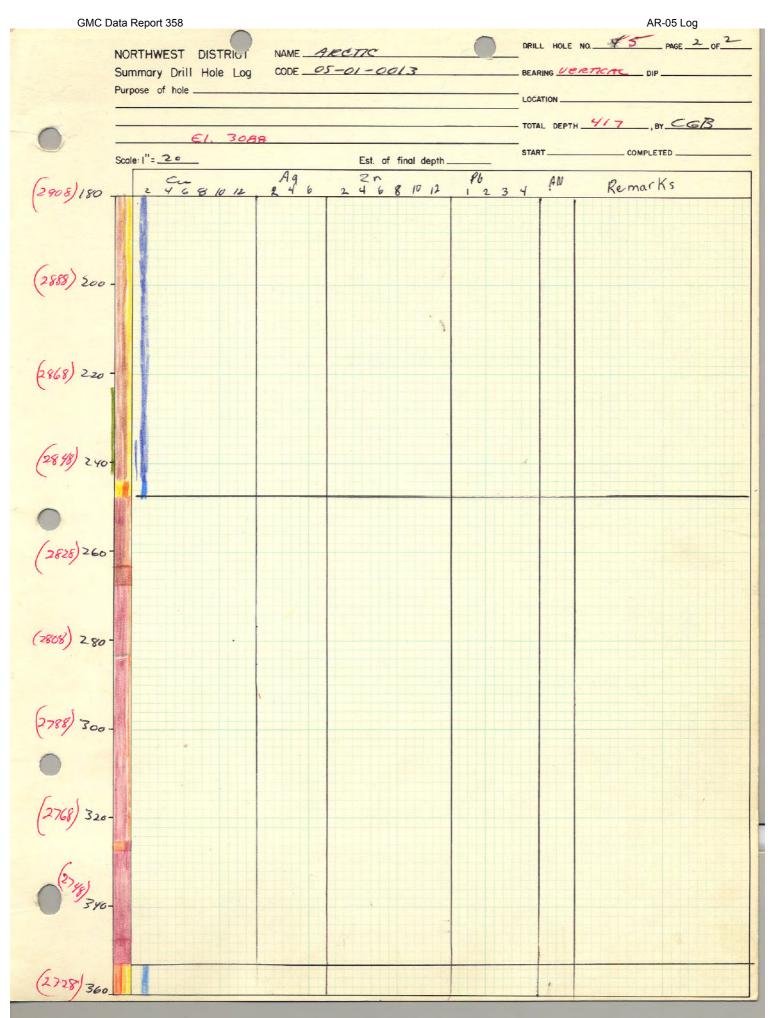
SAMPLE RECORD

E1 3077

Sample		Sample	True	Cu		Ag		20	-	A	her	Pet	-	Chan.		
Number	Location	Length	Width	Assay	Assay Feet	Size	Wt.	Remarks								
71281	141-146.5	6.5		0.08	-	0.35		0.05								
712 82	146.5-149	2.5	1.48		3,70					0,010						the when
71283	149 - 151	2	1.31	1340	2.62	0.53	1.06	0.11		0.005						20 20
712 84	151-153	2	1	1.68	3.36	0.59	1.18	0.31	_	,015						1.15
712 85	153-158 A Cu 46.1544			4.40	22.00	1.32	6.60	6.43	33.55			10.42				V V
71286	158-161 49/3.24A	+3		3.55	10.65	1.3	3,6	4,19	12,57	0,010	0					1 12
71287	161-164	3	-	4.50	13.50	1.32	3,96	13.11	39.33							164
71288	164-167 Cu 52.624pt 184 Att	3		0.51		1.12	3.36	12,33	3699				-			21-10-
712 89	167-169 Zimi31,364pt	2		2,454	4.94	0.6	1.4	4.46	8.92	0.010						MM
71290	169-171	2		0.01	-	0.38	0.76	0.08		-						15
27268	214,5-216.5	2		0.04	a-		0.6									
71269	216.5-217.5	1		2,226	1.22	0.53	0.53	2.9				0.4				
1270	217,5-222	4.5		0.02		0.35	1.57	0.34								the state
712 71	222-223	1		0.84	0.84	0.41	0.41	0.14	_							62 64
71272	223-226 Cu 71.46 AS. Ft.	3	18.43		53-29	8.79	35,7	810	23,10	0.005		1.0				4 600
71273	226-227 2 39.7 03 Ft 226-227 Zu40.98 As Ft.	1	7.64	7.64	7.64	1.82	1.86	14,65	14,65							W t
71274	227-229.5 2270.78 FT.	2.5		3.41	8,53	0185	2.13	1.29	3.23							7 N
71275	229.5-231	1.5	-	0.14	0.21	0.41	0.62	0,23					-			Vi Re
71276	242-243	1		2.00	2.00	0.56	0.56	0.85								i in
71277	243-251	8		0.01	-	0.38	3.04	0.06				1				k do
71278	251-252 Cu 18,02 Ars ft	F	6.51	6.704	17.02	3,7	3.2	15:40	(14.13)							29
71279	251-252 Cm 12.02 Ass Fr 252-253,8 2-12 358 Ass FL	1.8	-	3.06	5151	0.68	1,22	1.68	1,68							4 15
71280	253.8-256.5	2.7		6.16	0.43	0.35		0.08		1	-					51/2
71281	119-126	7		0,06	0,42	0,26		0.11								17 19 10 10

AR-05 Log GMC Data Report 358 DRILL HOLE NO. _ PAGE _____ OF___ Andic NAME _____ NORTHWEST DISTRICT CODE _ Summary Drill Hole Log BEARING DIP_ Purpose of hole _ LOCATION TOTAL DEPTH 417 START_ COMPLETED Scale: 1"= 522 ' Est. of final depth 0' Ty pieal G. B. S. introbaded with this boyers of dark 50'consistant - he megen loves appearing -cont - interbedded series 100'siliceous nucle. which quadational into the schirt popphyny unit. 150-Very consident - home. Good correllative unit in This 200-Sharp context 250'typical Bit selecous selist. 300. 350 -Bottom ?

GMC Data Report 358 AR-05 Log DRILL HOLE NO. 5 PAGE DI OF 3 NAME ARCTIC NORTHWEST DISTRICI CODE _05-01 -0013 BEARING DERETIER Summary Drill Hole Log Purpose of hole To follow the high-grade (Test area between and downdy from Sh 3 \$ 2 LOCATION 414 TOTAL DEPTH ____ El. 3088 START 8/15/67 COMPLETED 8/22/67 Scale: |"= 20 Est. of final depth 246 Ag 2n PG 4 AN Remar Ks 8 10 12 (3088)0 4 6 8 10 12 (3068) 20 (3048)40 (3028) 60-(3008) 80 (2988) 100 (2968) 120-(2948) 140-6908 180



GMC Data Report 358 AR-05 Log 5 PAGE 3 OF 3 DRILL HOLE NO ._ NAME ARCTIC NORTHWEST DISTRICT CODE _05-01-0013 Summary Drill Hole Log BEARING UERTICAL Purpose of hole To test area founding to west LOCATION between drill boles 36 2 TOTAL DEPTH 417, BY CGB E1. 3088 START 5/15/67 COMPLETED 8/22/67 Scale: |"=____0 Est. of final depth Cu Ag Pb 2 3 4 Zn 8 10 12 AN Remarks (2728) 360. (2708) 380 (10°) (2668) 420. 440-460-480-500-520-

GMC Data Report 358 AR-05 Loa COPR. 1918 BY J. C. PARKER 96-107.5 Altern. Layers REG. U.S. PAT, OFF. = 6" fine fine grain slightly carbonac. 0- 31 More or 1835 Chamitic BY mog Starte Hgreen taley chlorite 810 augen congl. Se ty picas and wi white blebs. to 5 COPR. Herphysic Jacts Intense oxid. <10° In a subrecesses ORIGI chlaritic matrix; luc, aylas shappy araph 107.5-114 - Augen abute - white augen in sandy and pelegreen -1CX 13 med. gray afaite 11- graythe Lirty allor-muse metry - who meno 50 histocity Roman, oxid =10° gen. warky develop The w flets Variable 14 Size to Hy INES TO < 1/2" H 44 ; =1" below 44. 114-124, Gray Med. IK gray Mod. Gxid. - fac. Intensa +20% Elightly carbon er 31-96 Same as above; matrix (Similar) layined highly selector Schist - serve, sheen, = 10-15 - /pc. thin pale gen pale green selection Green mot contorted po chlarite - black eneck IN U.S.A. chloute seams requ sheny blebs brotite Vfg diss. my Et <1% commanto 80! Minor mod, oxidation: ± 10° 1 loc. pale green homog. talcychloute; gray slightly carbonas lazer 81-83 as descrit 10c. pynlec clore sale arean matrif decrees, believ 441 28 28

GMC Data Report 358 AR-05 Log PARI MK. REB. U.S. PAT. OFF. TR. MK. REG. U.S. PAT. OFF. 124-149 - Micaccous glaste COPR. 1818 BY J. fine gritty - light gray with pale green warse mica seams loe - good ghite 158-244 Typical schiel parple unit. Maturf pale-med. green chlorete with white CRIGINAL toc. patchy gray mottleng ±10°. Inc. intense oxid blebs - plebs angular slightly rounded ally where adjacent 130-131 to one another borders 134-136 140-19154 Intistance - square to Mot. to weak exit loc. rot shaped Re - Grange - brown where INTENSLY OXID 157-161 HONI 177-15-178 101 pyritic zone 124-129-± 10% 5 LINES 1 MOD GXID 161-164 169-169 Unit has gray white find sandy appear. 175-177 178-180 Intense OKID 203-206 210 - 211 223-224 IN U.S.A. 229-231 233 -237 MADE 241-245 19102 Mod oxit - de for 1-2 adjacte intens , oxit, zones, A PHILADELPHIA exidized zones poroup russi LEFAX. minor jey - negl, subjectes gene 28 28

GMC Data Report 358 AR-05 Log MK. REG. U.S. PAT. OFF. R. MK. REG. U.S. PAT. OFF 244-247 Sileceris bandee 325- 329.5 Stightly contonac. delegate scher alter hot schestoce glylepale green and gre layers-talked GINAL bottom ft gradiational into underlying unit. dip + 10° 247-325 gragelister seleccom + Ripopuerte - TRACE CPY, minor mica school flathery - leng siliceous P Sample 325-329,5 laget 329.5 - 340 - Extremely partionac grugy dall black pyritie - py 3-5% ternating with competent black 100. mente oxid. solice with Com loc. sooty block highly Siamo & Ag. ±100 carbonac. Mumbly zones Sample 333 - 340 partic 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 for huner. dup 10° to 50 bot. Minor Gry. 321 Sample 321-322.5 28 28 ancord

GMC Data Report 358 AR-05 Log To Union from DH-5 346-347 Au 361,3-364,3 Cu Az, Ab-364,3-366,3 Cu, Az, Zu, Pb-364,3-366,3 Cu, Az, Zu, Pb-347-353 DK. Scheenen graph schut altern with schustice atrite dip +10°. scattered py Icc. Cp slams & Sp. 353-357-Mattled slightly chloritic 36377-377 Cu, Ag, Pb-, Au gizete - purly appear - fresh 377-386 Cu, Ag, Pb-74 dissem years - minor 380 -382 Cup Any Sp. TR Cp in sear -9 Sam 353-357 357- Same as above with great 370-383 Muscourte-chl.schut. 6 LINES TO INCH very soft-gousy - high-grade 351-3005 Chlor. pling - lec. talcy 370 yell. green aldoute + 5-10° -> Sample 361.3 - 364.3 shown by samples -py =10 20 in sulfide zones-2-3 electrere 383-385 Bleby pale gree Chlorite Etuc X - 5079 366.3 - 367.3 367.3-375 > " 375-377 385-407 Pale green chlorite Thist - lot rx ? 5-10° 377-380 380-382 382 - 383 Barren to negl sulfide te low 383' 567.1 36 EFA 28 28

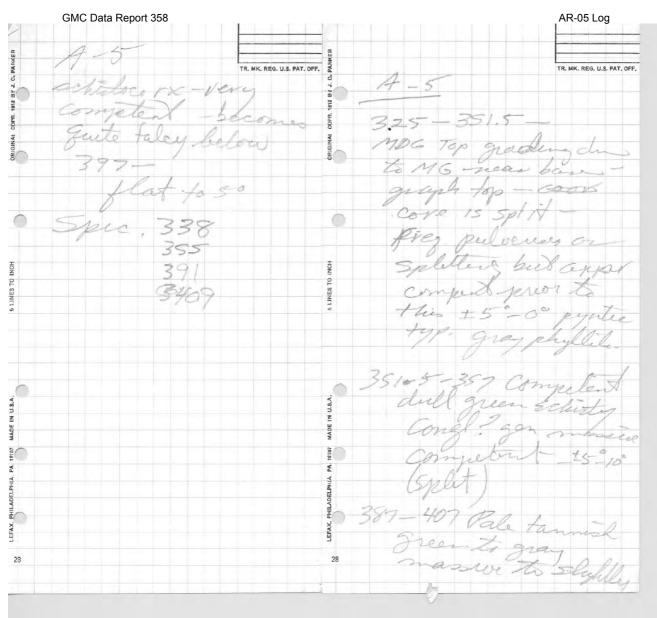
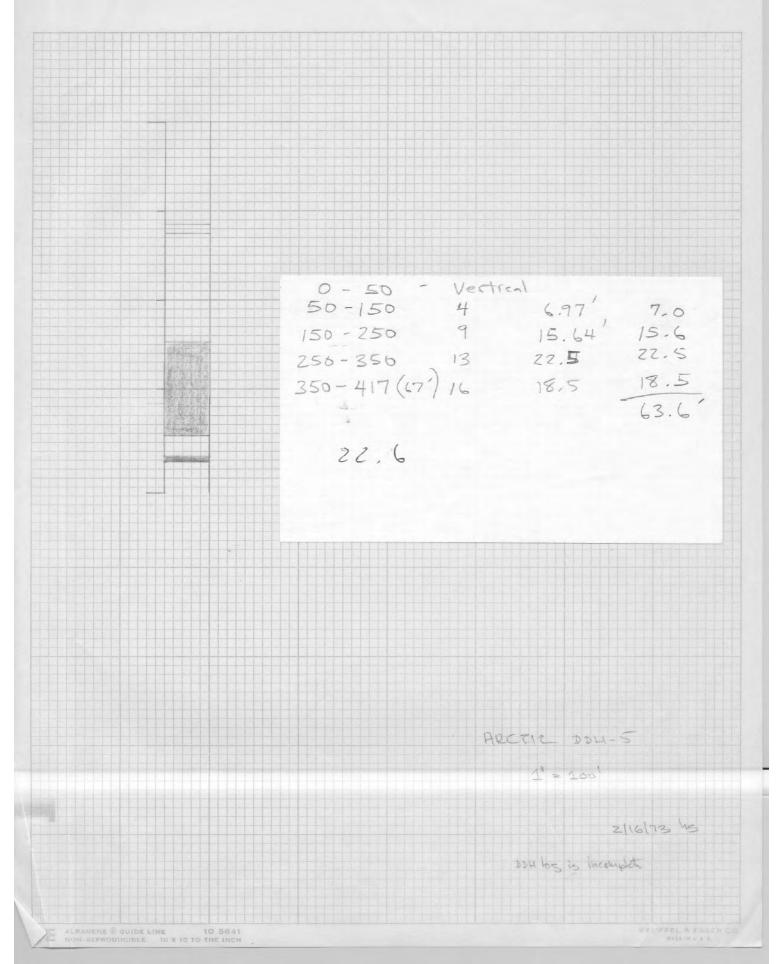


Exhibit "F-1"

	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				



L LE NO. DH - 5

ASSAY LOG

* Union

KCC

SAMPLE	SAMP	LE INTE	RVAL			1	ASSAY				
JUMBER	FROM	TO	FEET	Cu	Pb	Zn	Ag	Au			1
71145	60	70	10	0.08		0.04	0.28			1	
71110									_		1
71146	124	129	5	0.04		0.04	0.31				
71110		1.47									
71147	154	158	4	0.04		0.14	0.44		-		
71148	263	268	5	0.29		0.46	0.57				
								.005*			
71149	268	270	2	0.74		0.28	0.44				
								.010*			
71150	321	322.5	1.5	1.35		0.24	1.06				
		10000						.030*	1.		
71117	325	329.5	4.5	0.19		0.58	0.88				
		1.5								1	-
71118	333	340	7	0.48	S	0.23	0.73				
121201											
71119	343	346	3	0.26		0,68	0.59				
71120	346	347	1	4.40		1.36	1.03				
								.045*			
71121	347	353	6	0.29		0.40	0.58				
71122	353	357	4	0.03		0.03	0.47				
				1							
71123	361.3	364.3	3	2.01		0.16	0.64		-		
				1.992*	* 0.3*		0.24*		1	-	
71124	364.3	366.3	2	1.50		17.70	1.06				
				1.429*	* 3.9*	17.45*	1.04*				
71125	366.3	367.3	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		13.70	1.92				
				7.307*	* 0.5*	13.35*	2.1*	.010*			
71128	377	380	3	12.85		6.28	1.81				
				12.570	* 0.3*		1.86*				
71129	380	382	2	4.69		2.48	0.89	الستوري			
71130	382	383	1	0.78		0.59	0.51				
-					_				1		
		-		1				-			
									-		

BC 12-66

SAMPLE RECORD

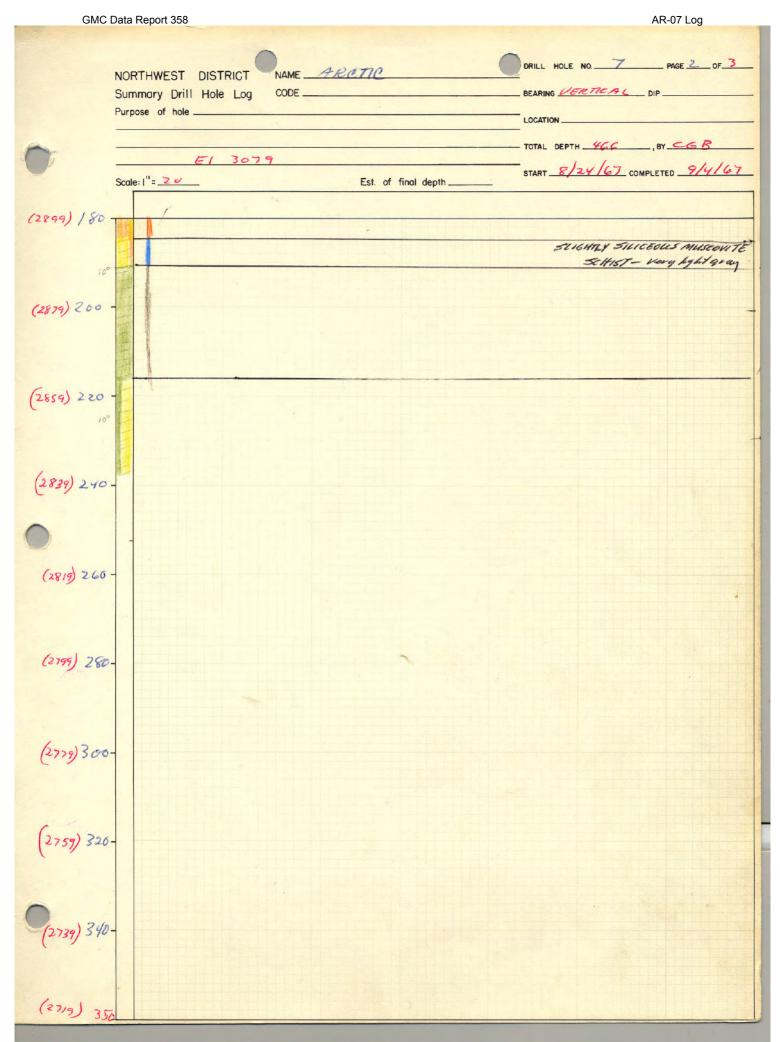
E1 3088

Sample Number	Regenhait Black ink	Sample	True Width	Cu		Ag		ZN		An		Pb		Chan.		
	Location	Length		Assay	Assay Feet	Size	Wt.	Remarks								
71145	60-70					0.28										
71146	124-129					0,31										
71147	154-158			-	-	0.44]
71148	263-268		1			0.57										
711 49	268-270					0.44										
71150	321-322,5					1.06										
71117	325-329.5		-			0.88						-				
71118	333-340					0.73				_						
71119	3=13-346	3		0.26		0,59		0.68					1			
71/20	346 - 347	1		4.40		1.03		1.36		0.045		-				
71121	347-353	6		0,29		0.58		0.40								
71/22	353-357	4		0,03		0.47		0.03								
	361.3-364.3		6.00		-	0.64	1,32	0.16				0.3	1.1			
711 24	364.3 -366.3	2	2,90	1.429		1.04	404	17.45				3.9				1)
71125	366.3-367.3	1	2.68			0.35		0.45		:005		0.05		-		
71126	367.3 - 375	7.7		0.58		0.15		0.13		The		0.10				
71127	375-377	2	14,614	7.307	1		141-00	13.70	27,04	0.010		0.5				
71128	375-377 377-380 380-382	3	37.710	12.85	37.716	1.86	5.49	6.28	18.84	1		0.3				
71/29	380-382 34	Z	9.38	4.69		0.89	1.75	2.48		2						
71130	382-383	1		0,78		0.51		0.59								
		375-	392	7	et.	0	8.81	200	2n							
					1	1	.61		Ag							
						1 7	26		2 -							

GMC Data Report 358

AR-07 Log GMC Data Report 358 LL HOLE NO. _____ PAGE ___ OF 2 Arctic NORTHWEST DISTRICT NAME CODE _____ /96 % alast DIP -BEARING Summary Drill Hole Log Purpose of hole ____ OCATION TOTAL DEPTH . BY START _ _ COMPLETED Scale: |"= _____ Est. of final depth. 0' the others martly bestitic substance interlected with 50. could be a completely silicified QB.S. 100-- Here is shist sorphyry with 290% gts grained spheres -150-Non home. Variable "10 spheres. The 1x from 0' to 200' has been an interbedded mert. 200-More home than the above ix. 250'-

GMC Data Report 358 AR-07 Log DRILL HOLE NO. 7 PAGE 1 OF 3 ME ARCTIC NORTHWEST DISTRICT JDE 05-01-0013 ARING VERTICAL Summary Drill Hole Log DIP Purpose of hole _ LOCATION BY CGB TOTAL DEPTH _466 3079 EI START 5/24/67 COMPLETED 8/9/4/67 Scale: |"=____o Est. of final depth A9 24 cu 210 4 6 9 10 12 PU 1 2 3 4 AN Remarks 6 8 t 2 10 (3079)0 Lt-Med It gray guerteite (quitty) with more or less muscovite as shown - very locally highly siliceous muscoute (3059) 20 schist. 20 (3039) 80 15 (3019) 60. 2999 80 (2979)100 10-15 (2959)120-(2939)140 10-15 19/160 (2899)180



GMC	Data Report 358		AR-07 Log
		ARCTTC 05-01-0012	DRILL HOLE NO PAGE OF
	Purpose of hole		LOCATION
			—
0			TOTAL DEPTH _466, BY
\bigcirc	<u>E1 3079</u> Scale: 1 ["] = <u>20</u>	Est. of final depth	START 8/24/67 COMPLETED 9/4/67
6.2			
2719)361			
-			
2699/380			
(200) 380	-		
1			
(2679) 400	1		
Godina			
(2659) 420			
0			
()			
(2639) 440			
(-0)) 1			
(2619) (2619) 460			
(201) 460	-		
Great			
(2599) 480			
Cal			
(2579)			
(2579) (259) 500			
(herea)			
(253) 520			
(4559) (259) 520			
Carl			
(2539)			
(540			

				DRILL HOLE NO.	7 cont PAGEOF
		WEST DISTRICT NAME		BEARING	DIP
0		of hole	<u> </u>	LOCATION	
Q				TOTAL DEPTH	, BY
 450 450 				START	
	Scale: 1	=	Est. of final depth	1	
450	in the second se				
	erina -				Heren Heren
		,			
0					
	4				
	-				
0					

SAMPLE RECORD

E1 3029

PROJECT ARCTIC

WORKING PLACE DH-7 SAMPLER DATE //67

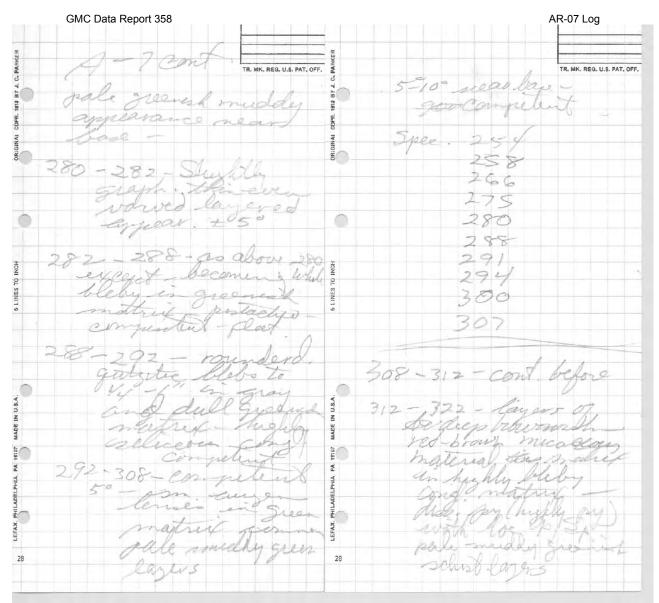
142.02

Sample	Degenhard	Black Jn K D	Sample	True	C	AN	A	A AV.	2	Aceny	A	Accov	P	1- Aseau	Chan.		
Number	0	Location	Length	Width	Assay	Feet	Assay	Feet	Assay	Assay Feet	Assay	Feet	Assay	Feet	Size	Wt.	Remarks
71151	405-405		5		0.49		0.5										
71152	405 - 469		4		049		0,5										
71153	409-411		2	Mar	0.20	30	0.8										
71154	411-414		3	2.29	2.299	6.87	0.9	1.0	4.15	9.96	0.010		0.9				0
71155	414-416	.*	2	1:05	1020		0.54			0.00			0.3				
71156	416-419.5	1,4	3,5	0,90	1.16					0.60	0.010		0.05	-			
	419.5-420.5	- N. J	1	0.92	0.932	0.92	0.2			0.00			0.05				
71158	420.5-422	08 46 1	1.5	5.70	5.569	855	2.82	3.9	6.54	9.96	0.140		1.0	1.5			
	422 - 425	AN WAN	-	4.21		12.63			-	27.48		-	1.0	3.0			
	425-427	253 253 253 253 2545 2545	-26	5.36	5009	10.72	5. 2.			31.80				-			
	427 - 430	1 2.0	3	8.21	8.176	24.63	2.72	7.2	12:08	34.11	0.0Un		110	3.0			
	430 - 434	249.09 As	4	4.34	4.292	17.36	2,78		1	41.60	11			0.32			
	434 - 438			4.85		97	2.94		10.4		0,030			0.32			
	438-442	Hot N & B	4	7.33	7.307			174	(8.5)	34.04	ALSE	-	0.7	2,8			-
	442-444.5		2.5	2.55	2.503	1 37	3.5-3	1011	1.1	28,50	0 0 27		1.4	3.5			
	444.5-446.5	Report Collector of the State	2.0	0.13	0.119	0.21	0.2	55	0,13	6,26				*			
	446,5-451.7		5.2	011.9		0.6		9.1.0	NI		NI						
	451.7 -452.7		1.0	2,10			0.7		0.39								
	452,7-458		5.3	6110	0.05				0.16								
11161	17-11-738		1		0105	w r ur	aver a light		0.16	4							
	420.5-	444.5 = 2\$ st 5	- (5.35)	2. Cin			41	1-2	45.5	+ 5	4	24	20 0	0			
	C. & A.	MR of KCC	2.80	K. Ag					3.5			.1 00			-		
	di	1. Accase	10.38	2024				- 3	2.3			56	1	-			
	z Un	non resserves -	-								11	10	-10	have break	-		
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -					1		-	1							
	Demont 050						-		-								- tu

GMC Data Report 358 AR-07 Loc REG. U.S. PAT. OFF Negl. axid, below 20 untel 0-31 gray siliceous xx (gtyles 66 - 66 -107' mot. outs ting quecks dorle material negl. below 107 31'- 40' - Black Speckled blebs 68-103 - Gritty fine grace in pale greenish gray grate matrix - chlorite clean light gray aterte with very ting black protecte increases downward. Spects ; even deleritic 40 - 44 - Dull green chloriters Seams particul prom. (granular) quartaile ; this layers blotchy dark indusing above 82 ft & give rx splitting into 44. Interlayered with NCH 400 fine your ad siliceous The thick dollars 01 gray - blouched applax. very even bedding; bands. # 20" schustoce glags comm below 82 belding lesr (A-39 shows the black specho & chilente, plonument; less chlorite. 44 - 59 - Continual of bandad 10-70 103-113 Deterlayered \$19 aterte dull green i'x with thin wayey layers carbonac? pale green childrele and matter, carbon malerial Schiel - Glassy sheen to allorete - Speaks across lean thea 5% ; loc. white blotchey inclusiones folcar comman near top ! mod. scheelver many dark blobs & spacks NA. 10-150 113-118 Typical Hg guilty 59-68 - Similar to above but gray bando tox/0%. gtyle with dissen childr. Negl. graychite - pigtily schistory due to incheas chlorite-talcy box 2.

GMC Data Report 358 AR-07 Loc ARCTIC R. MK. REG. U.S. PAT. OFF R. MK. REG. U.S. PAT. OFF 118 -127 - Pale dull gree 141 - 103+ chloritic gizite: clean quarte granes with Josen chlorite & fiscout. chlorite +x - poorly developed schuster conspil , subangular Seams , chilorite gal green INNIDING! clean appear (washed) and gay blobs in a sea glassy grile; locally langued dull green locally Easteenlady pron torras the feature +10" t= 10-15° 173- 185 Increased chlorite takes 1x back into same aspect as 127-141 ± 10° 127 - 141 - Highly seleces Pale green chloret NES TO Schutore ala 185 - 1915 - De Siliceous delovite Schist - Same as above wafer with layers but increased childrent +; wavy This sandy cle baliding ; distinctive vippled te sexanatu 4 Slightly waisy chilerel 19 layers. 10-150 191.5-216 Chlorite schist with subangular white blebs. Squeezed jeebbles of gtsite CONGLOMERATE 18" comming at 135' - loc, above tragments roundal to This ; chlorite de creases augen shaped to ±1" dean, downward aboute met It green Oxid. intense. - gritty firty green appear, 28 28

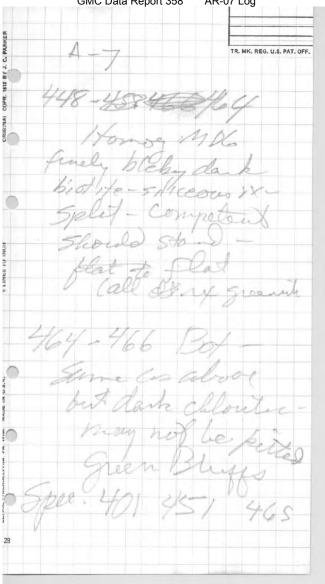
GMC Data Report 358 AR-07 Log RATIC AY J. C. PARKER IS10 BY J. C. PARKER TR. MK. REG. U.S. PAT. OFF. TR. MK. REG. U.S. PAT. OFF. 216 - 238+ Conglomenatic chlorite chaner appear the Schul \$10 Stalle COPR. </2" COPR. circence abour; Frags ger. GINAL pebble. ma deam; ORIGINAL augen sha ±10% hegyly delov. Siliceous 1X Avys to 30% loc. miller slighty Very Carbonac. Lyer 240, 5-240.8' I very los elsewhere below 233 1 HONI 5 LINES TO INCH 6 LINES TO 3 Schulter 600000 MADE IN U.S.A. MADE IN U.S.A. 19181 10151 ¥4 ¥4 PHILADELPHIA. PHILADELPHIA LEFAX LEFAX. 46 28 28



GMC Data Report 358 AR-07 Log COPR. 1812 BY J. C. PARKER C. PARKER TR. MK. REG. U.S. PAT. OFF. TR. MK. REG. U.S. PAT, OFF. -Sta BY COPR ł ORIGINAL ter melector 32) Trychesteles liccor 350 a ternitor 1140 Selle 370 372- Migar 5 LINES TO INCH 10N 44 One D 14 concord Q Une 3 2511 328 25 408-Contine an 36-22 550 Deres IN U.S.A. MADE IN U.S.A. ayers. MADE in no 18107 NA. M PHILADELPHIA. 102 ta LEFAX. LEFA 28 28 Carn. dictor



AR-07 Log



GMC Data Report 358 Page 81 of 97

OJECT 003-00-0013 - Arctic

HOLE NO. DH - 7

ASSAY LOG

* Union KCC

								N	cc		
SAMPLE	SAMP	LE INTI	ERVAL				ASSAY				
NUMBER	FROM	TO	FEET	Cu	Pb	Zn	Ag	Au			
71151	400	405	5	0.49	11	nil	0.5			1.1	
71152	405	409	4	0.49		nil	0.5				
71153	409	411	2	0.20		0.18	0.5				
71154	411	414	3	2.29		4.15	1.2				
				2.299	* 0.9*		0.9*	0.010*			
71155	414	416	2	1.08		0.01	0.8				
				1.020	* 0.3*		0.54*				
71156	416	419.5	3.5	0.90		nil	0.5		1.1.1.1.1		
								0.010*		11	
71157	419.5	420.5	1	0.90			0.5				
				0.932	*	nil	0.2*	0.010*			
71158	420.5	422	1.5	5.71	1.	6.64	2.4				
					* 1.0*		2.8*				
71159	422	425	3	4.24		9.16	3.0				
				4.190	* 1.0*		3.2*	0.020*			
71160	425	427	2	5.13		15.9	2.4				
				5.599	*		2.2*			1	
71161	427	430	3	8.25		11.37	2.1				
				8.176	* 1.0*		2.7*	0.040*	1		
71162	430	434	4	4.39	1	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				
			1.1.1	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				
	1							nil*			
71168	451.7	452.7	1	2.10		0.39	0.7				
71169	452.7	458	5.3	0.05		0.16	0.6				
	1000		-								
			1								1
	1.1.1.1				1.	1	1	1			
		_				10000					
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GMC Data Report 358 AR-08 Log RILL HOLE NO. _____ PAGE ____ OF. Arctic NAME ____ NORTHWEST DISTRICT Relver 1968 CODE _____ Summary Drill Hole Log BEARING DIP Purpose of hole ____ LOCATION TOTAL DEPTH B START _ __ COMPLETED Scale: 1"= 50 Est. of final depth. 0 typical of the ideceous chl. -muse, schest, Hono - clearage is 250 to having. 50'-Idela ende at 99' 100 -2

GMC Data Report 358 AR-08 Log RILL HOLE NO. 8 PAGE OF NAME ARCTIC NORTHWEST DISTRICT CODE 05-01-0013 BEARING UPRTICAL DIP_ Summary Drill Hole Log Purpose of hole _ LOCATION TOTAL DEPTH 177 _,BY_C6B E1. 3195 START 8/24/67 COMPLETED 8/26/67 Scale: |"= 201 Est. of final depth. (3195)0 SLIGHTLY CHIORITIC Muscovite schist (The chlorite not Samo as Joep green Chlorite of Under lying Green BLUFFS UNIT (3175) 20-(3155) 40-(3135) 60-(3115) 80 -(3095)100-INCREASING DEEP GREEN course, soft chlorite (transitional zone Into the Green Buygs Unit Below (3075) 120-Deep green, coarse (3055) 140-CHLORITE SCHIST TRUE GREEN BLUFFS (3035)160-(30 +5)180

1305 West 36th Avenue Anchorage, Alaska

Occober 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		<u>Cu. %</u>	Zn ppm	Pb ppm	Ag oz/con	Au cz/ton
51899 51898	6" L	2.3	510 670	100 95	.61	.09
51897 51896	6" 2"	.45	725 675	130 170	.06	.02

L. L. Lackey

LLL/mi

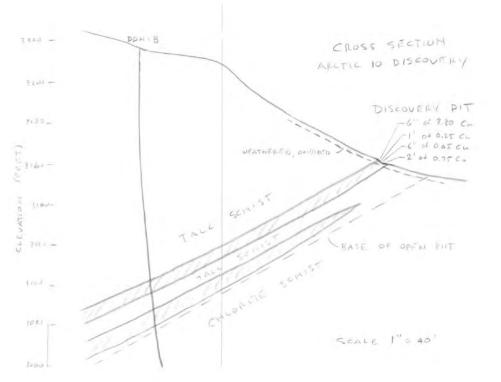
Attachment: Diagram

cc: Glenn C. Reed

GMC Data Report 358

Page 85 of 97

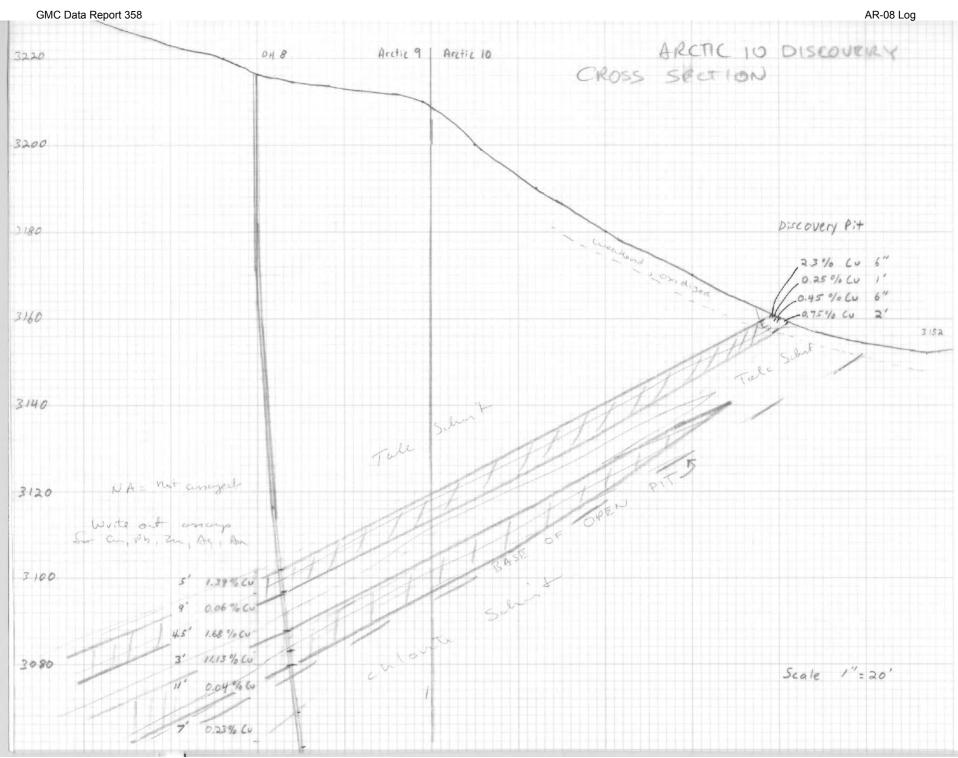
North DISCOVERY ARCTIC 10 15/899 6" of 2.3% Cu (AMENDED) FALC . Schist # 518 8 1' of .25% Cu-2847 6" 6.4526 Lane: Please draft ARCTIC 10 (AMENDED) 151896 2. of 15% to correct scale (KenPreston 1971). Discovery is in correct position as Schistto NW corner of claim Discovery PUT



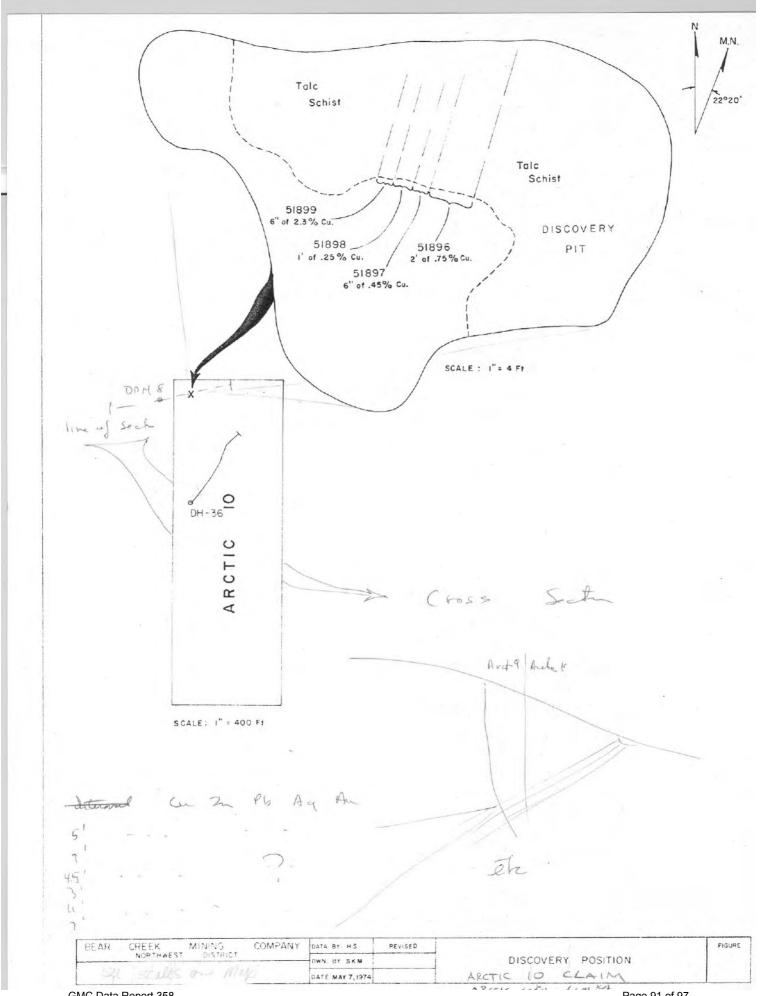
AR-08 Log

8 Cu 8Pb %2 02/10 Ag 02/10 An 1.39 NAV 0.18 0.35 V 51 0.06 NA 0.14 0.24 NA 91 4,5' 1,59 0,40 0,65 0.50 0.005 MA) 3.50 -0.0204 3 11.29 2,40 (11' 0.04 NAV 0.04 0.32 NUA V 7 0.23 0.30 0.40 0.32 hil GMC Data Report 358 Page 88 of 97

Chuck -Please Revise His May 74 drawig to include the locate of DH 8 a line of Section, a the section on chown, but reduced t ft the page We unt to add the Pb, Zn, Ag, An values to all samples, too. Shold me pit build at table, or can list them out next to the intercept or single? I'll leave this do yo The attached all the file data Well need this is a meet

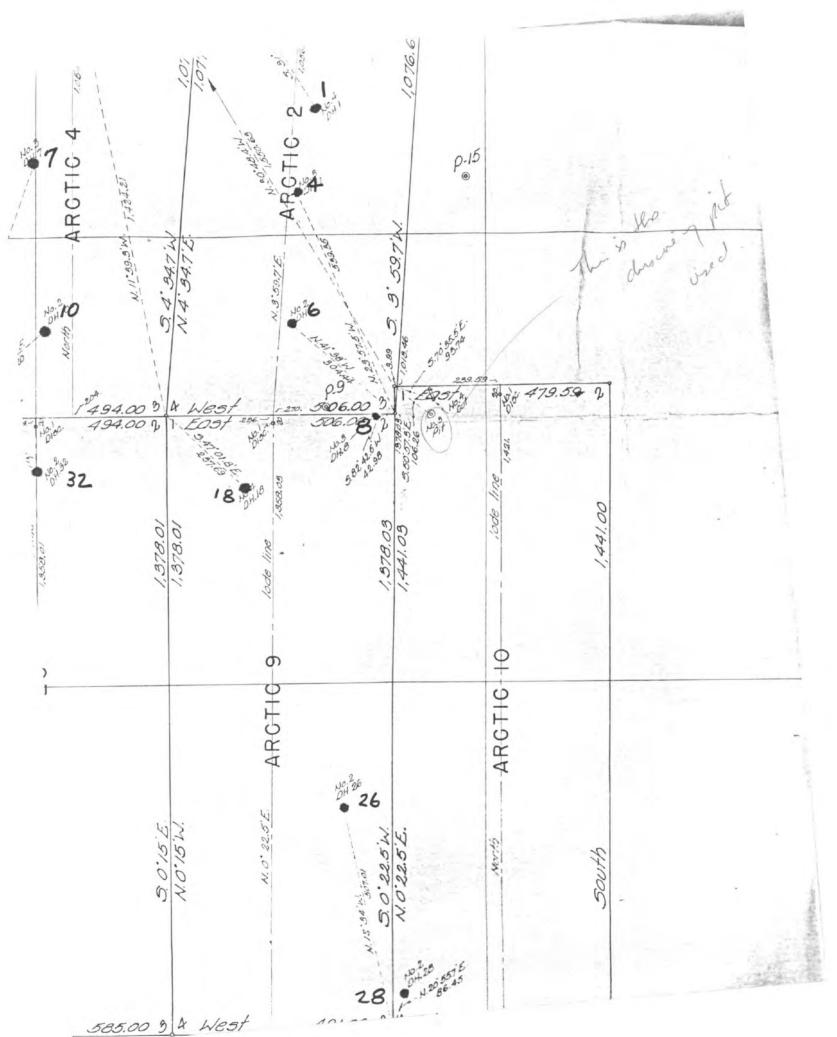


Page 90 of 97



GMC Data Report 358 AR-08 Log ORIGINAL COPR. 1810 BY J. C. PARKER C. PARKER TR. MK. REG. U.S. PAT. OFF. TR. MK. REG. U.S. PAT. OFF. ORIGINAL COPR. 1812 BY J. Seleccon -- Typ. Le 1 m hand onverde Connele could Ealize live 5 LINES TO INCH HON BXIVIZE 0 troan me Kent Compila abou as MADE IN U.S.A. asabour LEFAX. PHILADELPHIA. PA 18107 Hery bas iscon sericit, cum taky schist 25 28

GMC Data Report 358 AR-08 Log Sanale No. 51895 Samola No. 51894 Dore 7-22-71 AMBLER A.1 Date 7.72-7 Quarterdie AMBLER A.J ROCK SAMPLE ROCK SALAPLE STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION 1. LOCATION OF SAMPLE RELATIVE TO CR. D 1. LOCATION OF SAMPLE RELATIVE TO CR. D A At & clos 2. SEDIMENT SIZE SAMPLED A-sond 2. SEDIMENT SIZE SAMPLED ill & clas A-sono 3. ORGANIC CONTENT OF SAMPLE 3. ORGANIC CONTENT OF SAMPLE gioy, mixed light w/little gray, mixed light w/little 4. <u>CREEK SIZE AND VOLUME</u> Width F - Fo 4. CREEK SIZE AND VOLUME 8-20" E 60-8-201 20-60 B 2-8 E 60-F - Fo 5. STREAM PROFILE Steep w/ 5. STREAM PROFILE Steep w/r Rapid, few falls, fine seds. present as well id, few folls, fine s. present as well folls. folls. rocky, difficult get somple rocky, difficult get sample <u>C</u> no bedrock seen 6. OUTCROPS OF BEDROCK 6. OUTCROPS OF BEDROCK bedrock exp w/in 100' B bedrock exp w/in 100' 7. TYPE OF BEDROCK (list typ and percentag Metamorphic late headings) Igneous 7. TYPE OF BEDROCK (list types and percentage Metamorphic te headings ĉ SEVERAL PIECES COLAPOSIT CHIP FROM ~10' B. FLOAT IN CREEK (OF PET 7) SAMPLE FOR 8. FLOAT IN CREEK (as per #7) S OF 51892 LENGTH OF 15' N-S ALONG PIT 9. GEOCHEMICAL FIELD TEST 9. GEOCHEMICAL FIELD TEST WIALL-× Cu × H.M. x Cu x H.M. Sample No. 51893 Date 7:22.71 Quadrongle PMBL9 A-1 Somple No. 51892 Date 7-22-71 Quadrangle <u>MABLER H-1</u> ROCK SAMPLE ROCK SHMPLE STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION STREAM SEDIMENT GEOCHEM SAMPLE INFORMATION LOCATION OF SAMPLE RELATIVE TO CR. D 1. LOCATION OF SAMPLE RELATIVE TO CR. D 0 Sill & clay 2. SEDIMENT SIZE SAMPLED A-30 1 & clo 2. SEDIMENT SIZE SAMPLED ORGANIC CONTENT OF SAMPLE groy, mixed light w/little 3. ORGANIC CONTENT OF SAMPLE light w/little 4. CREEK SIZE AND VOLUME A-2 C D 8-20' 20-60' E 60-4. CREEK SIZE AND VOLUME 8-20' Width F - Fe E - F A 5. STREAM PROFILE C. Shallow grode, Ropid, few falls, fine 5. STREAM PROFILE A Rapid, few folls, fine falls rocky, diffic diff rocky, get son pla 6. OUTCROPS OF BEDROCK 6. OUTCROPS OF BEDROCK and percentages ut Metamorphic 7. TYPE OF BEDROCK (list types 7. TYPE OF BEDROCK (list types iote head and percentag Metamorphic INDIVIDUAL PIECE INDIVIDUAL DIECE E. FLOAT IN CREEK (@per 7) FROM N. END OF 8. FLOAT IN CREEK (Deper 17) DISCOLERY PIT OF 51892 ARCTIC CLAIM#10 NEDGE OF CLAIM. P. GEOCHEMICAL FIELD TEST x Cu x H.M. 9. 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: 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.

X. L. Lacker m

Fund Here

LLL/mi

DJECT 003-00-0013 - Arctic

HULE NO. DH - 8

ASSAY LOG

* Union KCC

SAMPLE	SAMPI	LE INTE	RVAL				ASSAY				
NUMBER			FEET	Cu	Pb	Zn	Ag	Au			
71088	114.5	119 5	5	1.39	1-	0.18	0.35		1		
71089		128.5	9	0.06		0.14	0.24		-	1	
71090		133	4.5	1.68			0.50			1	1
71070	120.5	100	7.5	1 587	* 0.4*	0.65*	nil*	0.005*		1	
71091	133	136	3	11.13	0.4	11.50	2.59	0.005			
/10/1	100	150	5	11.293	* 2 /*	11.50	3.5*	0.020*			
71000	10/	147	11		Z.4	0.04	0.32	0.020			
	136		7	0.04			0.32				
71093	147	154	/	0.23	0.0*	0.40	0.52	nil*			
					0.3*			nil"			
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PRC	JECT ARCTIC	VORKING	PLACE	DH	- 8					SAMP	LER:_				DATE	e / /
Sample Number	Degenhart en black enk	Sample Length	True Width	Assay	Assay Feet	Ag	(Au Assay Feet	Z. Assay	Assay	Assoy	Assay	R Assay	Assay Feet	Chan. Size	Wt.	Remarks
1088	114.5-119.5	5.0		1.39												
1089	114.5-119.5 119.5-128.5 128.5 128.5 128.5 128.5 128.5 128.5 128.5 128.5	9.0		0.06												
1090	128.54-133.0	4.5		1.63	7.33	0.25	1.12	0.65	2.93				1,80			
1091	133.0 - 136.0	3.0	ć	11.218	33.63	3.0	9.00	12.37	34.50			2.4	7.20			T
	136.0 - 147.0	11.0		0.04												
1093	147.0-154.0	7.0		0.23												
	Que Ba 128.5 - 136							172	-136		11.2	12/2	~			
	04 128,5-136		5.46%	Cu	- (pn)	-	100	124		3.0	12Ce	9			
	-7,5pt:		11.200	179		1				-	11.50	20%2-	-			
	7.0 Fr.	-	5.00%	a series and providences	(4,9	9-		*	3.07	et.	10.0					
			1.2%	PL							12.4	070 1	6			
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