LOG NO: 0125

RD.

ACTION:

Monashee Geological Consultants

FILE NO:

DRILLING REPORT

ON THE

MISSION GROUP

NTS: 92H/8E

OSOYOOS MINING DIVISION

LATITUDE: 49° 20' N

LONGITUDE: 120° 07' W

for

Agio Resource Corporation

505 - 700 West Pender St.

Vancouver, B.C.

V6C 1G8

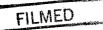
by

R.D. Kregosky, B.Sc., F.G.A.C.

November 30, 1987

SUB-RECORDER RECEIVED

JAN1 8 1983





T BRANCH

四门

e o e

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.01.18

ASSESSMENT REPORT 16916

MINING DIVISION: Osoyoos

120 07 00

PROPERTY:

Mission

LOCATION:

LAT49 20 00 LONG

UTM 10 5468292

NTS 092H08E

CLAIM(S): OPERATOR(S): Flint, Mission

Agio Res.

AUTHOR(S): REPORT YEAR: Kregosky, R. 1987, 26 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

GEOLOGICAL

SUMMARY:

Argillites, siltstones, limestones and tuffs of the Jurassic/

Triassic Hedley Formation have been intruded by sills, dykes and

stocks of diorite. Pyrite, arsenopyrite and sphalerite with

associated precious metals occur in shear zones within the diorites.

WORK DONE:

Drilling

DIAD 224.3 m 3 hole(s);NQ

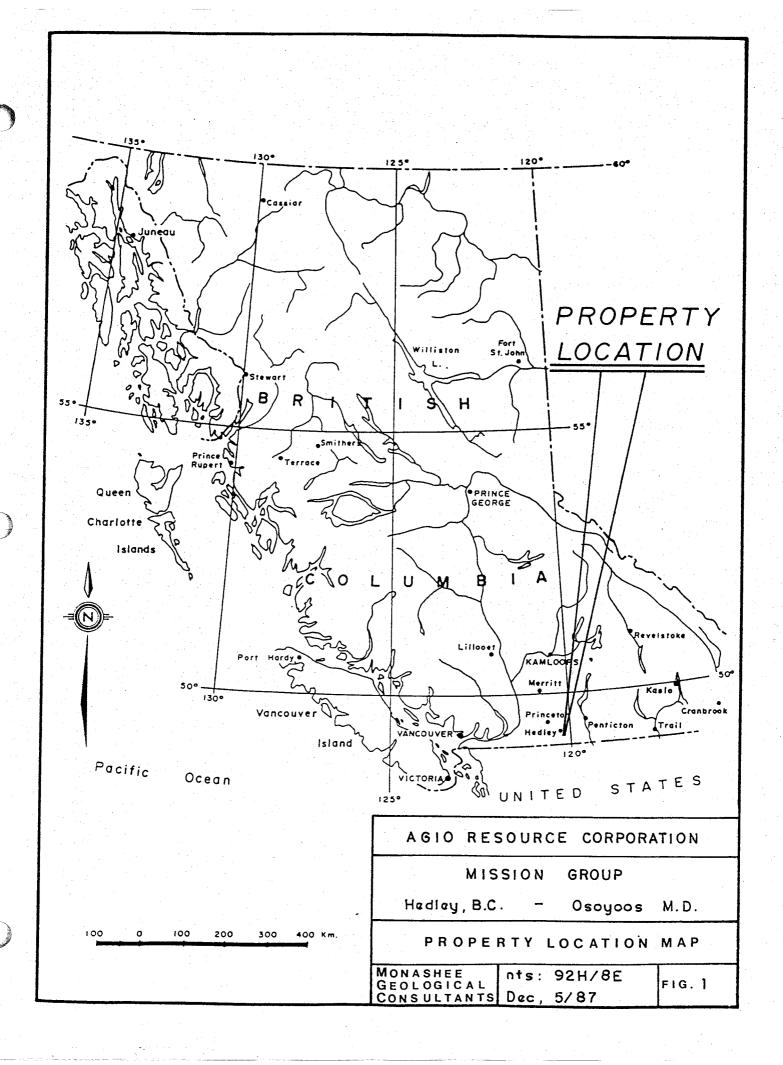
709476

MINFILE:

092HSE052

TABLE OF CONTENTS

IntroductionPage 1 /
Property Description
Location and Access
TopographyPage 2 /
Regional Geology
History
Diamond Drill Program
Conclusions and Recommendations
Itemized Cost Statement
Author's Qualifications
References
Appendix - Diamond Drill Logs
Illustrations
Property Location MapFig. 1
Claim Location MapFig. 2
D.D.H. Location MapFig. 3
Profile - D.D.H. 87-1
Plan - D.D.H. 87-2 and 87-3Fig. 5
Profile - D.D.H. 87-2 and 87-3Fig. 6
2501 16 Street Version Pritich Columbia VIT 3Y7 Telephone 542-0617



INTRODUCTION

This report, prepared at the request of Mr. H. Plank, President, Agio Resource Corporation of Vancouver, B.C., describes the results obtained from a drill program that was conducted on the Mission Group of claims near Hedley, B.C. (fig. 1).

The drill program was carried out by Interior Diamond Drilling of Summerland, B.C. during the fall of 1987. A total of 736 feet (224.3 meters) of NQ core were drilled.

The author visited the property October 27, during the drill program, and on November 21, 1987 after the program was completed.

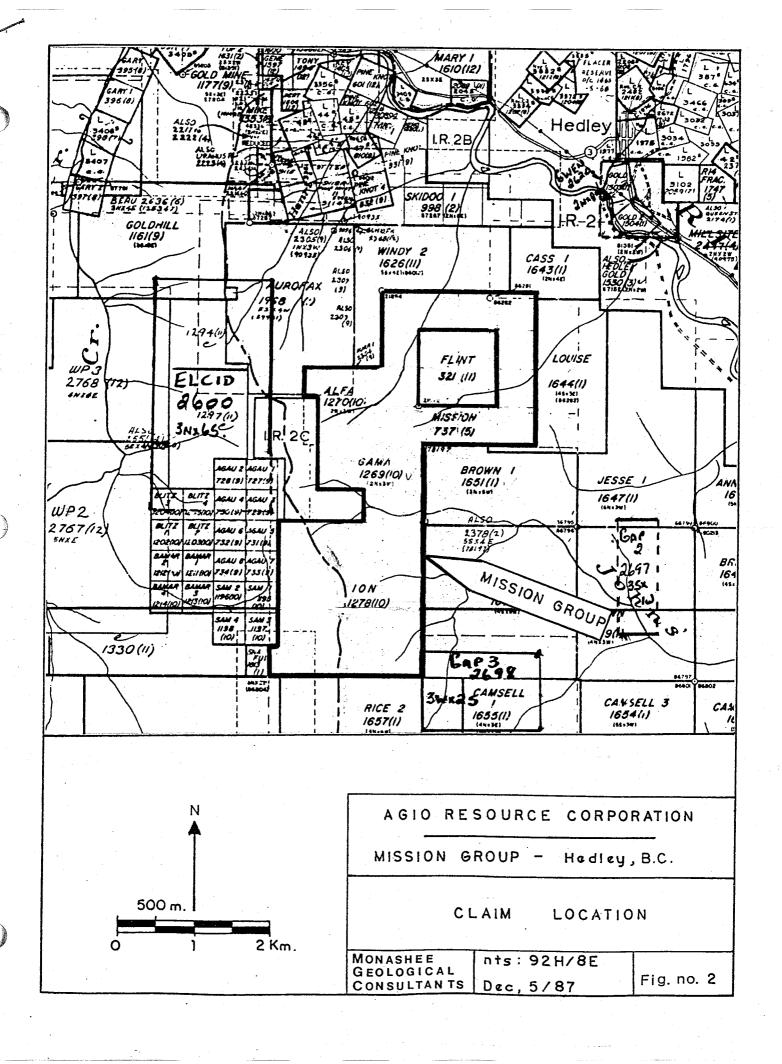
This report is based on field observations made on the property during the two visits as well as on the research of various published and unpublished accounts of the property.

PROPERTY DESCRIPTION

The Mission Group (fig. 2) consists of 5 contiguous claims located in the Osoyoos Mining Division. This group contains 46 units as outlined below:

Claim	Record No.	Record Date	Expiry/Date	Units
Flint	321	Nov. 14/77	Nov. 14/90	4
Mission	737	May 22/79	May 22/89	16
Gama	1269	Oct. 17/80	Oct. 17/89	6
Alfa	1270	Oct. 17/80	Oct. 17/89	4
Ion	1278	Oct. 24/80	Oct. 24/88	16
			TOTAL	46

The claims are currently in good standing and registered to Agio Resource Corporation of Vancouver, B.C.



LOCATION AND ACCESS

The Mission Property is situated approximately 4 km. southwest of Hedley, B.C. The claims are accessed off B.C. Highway #3, 7 km. west of Hedley at the Sterling Creek Forestry Road. After an additional 3.7 km. the Johns Creek Road is taken eastward. The diamond drill sites are situated at distances of 17.1 km. and 20.2 km. along this road.

TOPOGRAPHY

The Mission claims are staked over relatively moderate mountainous terrain which have, in general, northward exposures. The property is frequently incised by major northeasterly trending drainage features. Elevations vary from 1000 meters in the north portions of the Missions claim to more than 1700 meters in the sourthern sectors of the Ion claim.

The claims are forested by secondary growths of Douglas Fir, Lodgepole Pine, with patches of willow, alder and poplar in low lying drainage areas.

REGIONAL GEOLOGY

The geology of the Hedley area has most recently been mapped by G.E. Ray, G.L. Dawson and R. Simpson (1986/89). The area is underlain by thick sequences of metasedimentary and metavolcanic rocks belonging to the Hedley and Whistle Creek Formations of Jurassic/Triassic age.

The Hedley Sequence consists predominantly of siltstone, argillite and limestone/marble with lesser amounts of volcanic tuffs and pebble conglomerates.

The Whistle Creek Sequence consists mainly of andesitic ash tuffs with lesser amounts of interbedded argillite, siltstone and thin limestone beds.

These rock sequences have been intruded by dykes, sills and stocks of diorite, gabbro and granodiorite belonging to the Hedley and Similkameen Intrusions of Middle Jurassic age.

Mineralization in the Hedley area is principally associated with calc-silicate skarn development next to Hedley Formation limestone/diorite

contacts (Mascot Gold Mines). Mineralization consists of arsenopyrite, chalcopyrite, pyrite and pyrrhotite, with associated precious metals. Gold mineralization also occurs in quartz/shear zones located within the Whistle Creek Formation (Banbury Gold Mines).

The Mission Property, itself, is underlain by rocks belonging to the Hedley Sequence. These consist predominantly of argillite, siltstone with thin limestone/marble beds and lesser amounts of tuffs. This sequence has been intruded in the north, east and south by diorites belonging to the Similkameen Intrusions.

HISTORY

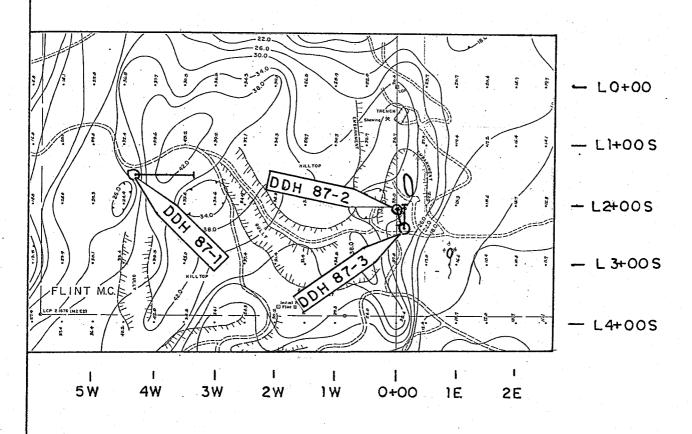
A portion of the claim group is staked over a zone of mineralization known as the Mission Showings. The principal showing consists of several shear zones associated with a major fault located entirely within intrusive rocks. Development originally consisted of a series of shallow shafts and trenches which exposed bands and masses of pyrite, arsenopyrite, sphalerite and minor tetrahedrite and chalcopyrite (B.C.M.M., 1936).

More recent developments by Agio Resource Corp. includes geological (1986), geochemical (1972, 1986) and geophysical (1972, 1980, 1986) surveys as well as a diamond drilling program in the vicinity of the Mission workings in 1981.

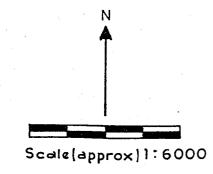
DIAMOND DRILL PROGRAM

Diamond drilling was carried out in the fall of 1987. A total of 736 feet (224.3 meters) of NQ core was drilled. The core is currently being stored at the Mascot Gold Mines mill site on Nickel Plate Mountain.

One Drill site (87-1, fig. 3) was located according to I.P. anomalies located during a geophysical survey conducted in the fall of 1980 by Glen White Geophysics.



LP CHARGEABILITY MAP - WHITE '80



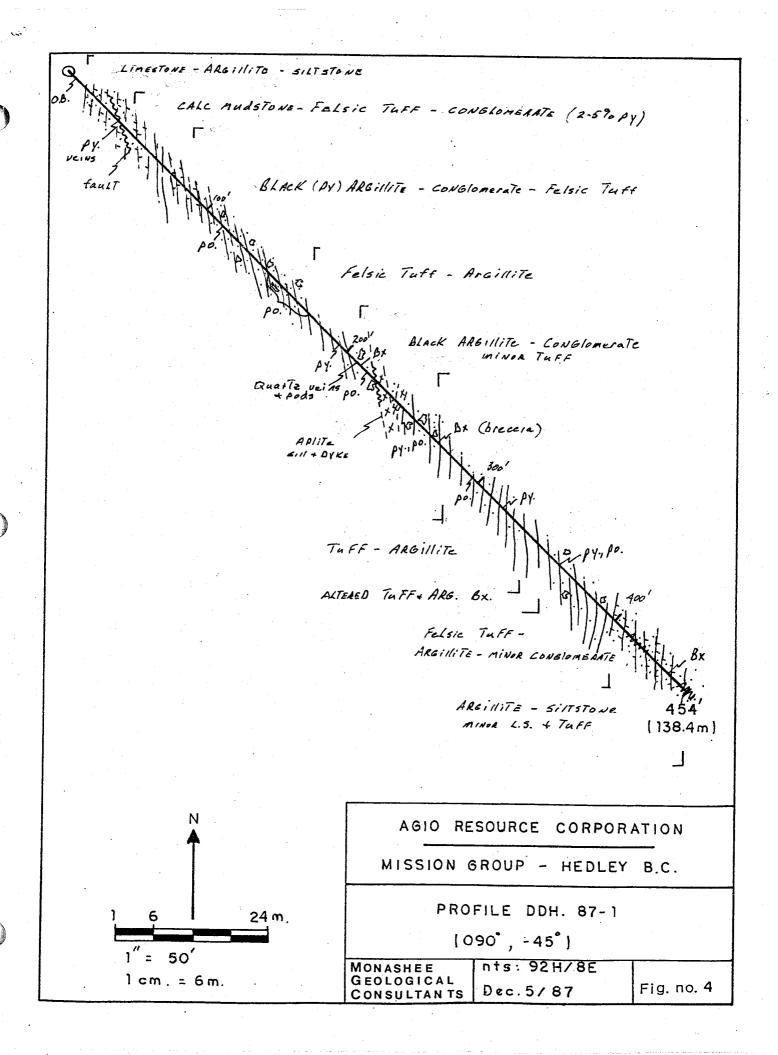
AGIO RESOURCE CORPORATION MISSION GROUP - OSOYOOS M.D.

D.D.H. LOCATION MAP

MONASHEE GEOLOGICAL CONSULTANTS Dec. 5/87

nts: 92H/8E

Fig. no. 3



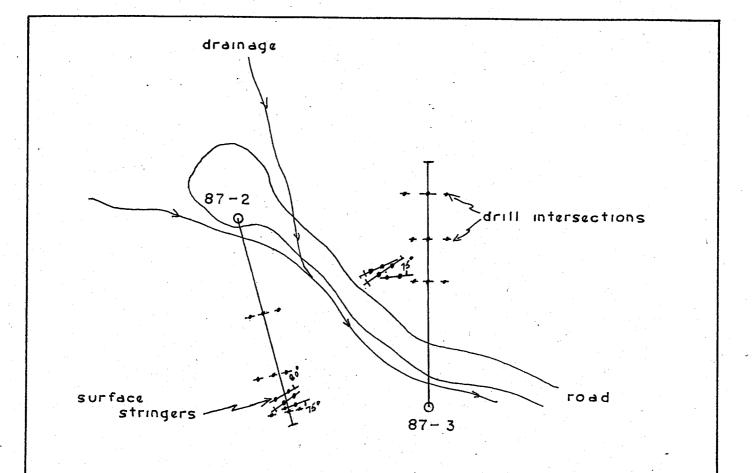
The other two drill sites (87-2 and 87-3, fig. 3) were collared in an attempt to trace the dip extensions of pyrite, arsenopyrite and sphalerite stringers located in a highly altered diorite. This mode of mineralization is the same as and in close proximity to the Mission showings.

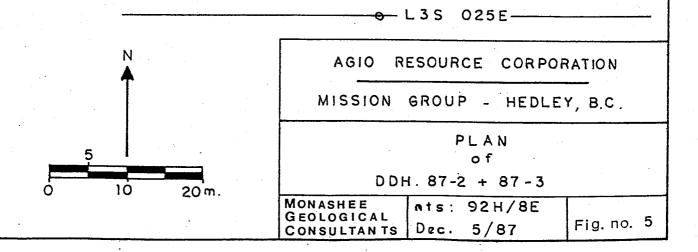
Diamond drill hole 87-1 (fig. 4) was logged by J. Bellamy, Senior Geologist, Mascot Gold Mines Ltd. This hole is located entirely with metasedimentary and metavolcanic rocks belonging to the Hedley Formation. These consist primarily of thinly bedded black argillites, siltstones and limestones with lesser amounts of felsic tuffs and conglomerates. Aplitic dyke and sill intrusions were noted to occur at the 230 foot (70.0 m.) interval.

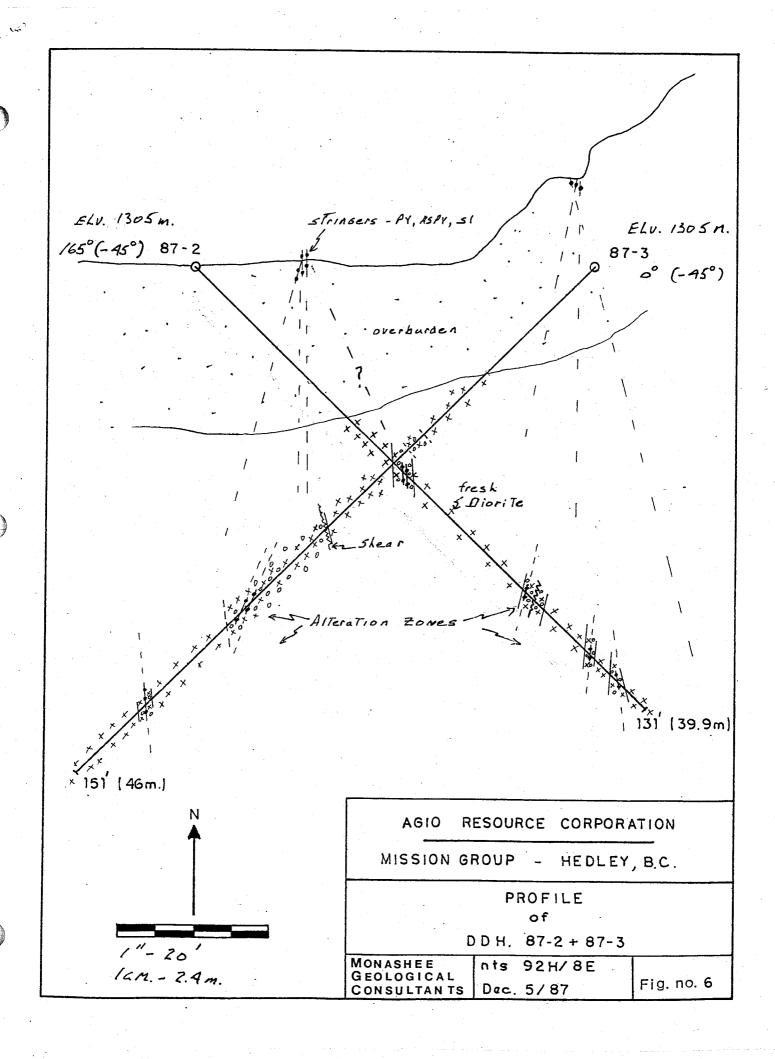
The bedding/core axis intersections were usually moderate to steep $(40^{\circ}-70^{\circ})$ indicating steep to vertical easterly or westerly dips of the strata. Mr. Bellamy indicates that the rocks, in general, have undergone varying degrees of alteration consisting mainly of silica, chlorite and epidote and to a lesser degree argillic. As well, certain rock horizons have undergone biotite hornfelsing.

Mineralization encountered in the drill hole consists mainly of pyrite and pyrrhetite. The pyrite occurs as syngenetic disseminations in the black argillites and as stringers and coatings on fracture surfaces. The pyrrhetite is less pervasive but also occurs as disseminations in a number of the rock units.

Two sections in D.D.H. 87-1 are considered to be of interest. These sections are located approximately at intervals 10-45 feet (3-14m.) and 200-248 feet (61-76m.) The first interval consists of weak pyroxene skarmed crystalline limestone and argillite which has up to 5% pyrite veinlets. At 40 feet (12.2m.), a strong mylonitic fault has been observed which cross-cuts the bedding at a low angle.







The second interval is centered around a faulted tuff horizon which has undergone argillic alteration with iron oxide staining. Adjacent to this fault zone are two aplitic intrusions. The associated wall rocks consist of argillite and tuff which are frequently cut by quartz/calcite veinlets and pods. As well, pyrite and pyrrhotite have been estimated to range from 1-3%.

Diamond drill holes 87-2 and 87-3 (fig. 5), which were logged by the author, are located approximately 175 meters south of the main Mission showing. The plan map indicates the spacial relationship between the two drill holes and a series of mineralized stringer/shear zones as exposed in two surface trenches.

The profiles (fig. 6) of D.D.H. 87-2 and 87-3 indicate that the drill intersections correspond with the measured attitudes of the surface showings and as a result, the zones have been traced for approximately 90 feet (27m.) below surface.

These mineralized zones consist of thin stringers and disseminations of pyrite, arsenopyrite and sphalerite located in altered diorites. Alteration consists predominantly of silicification and propylitisation and often extends for considerable distances from the mineralized stringers. The alteration is often intense and masking the original character and texture of the intrusive rocks. The structures at depth are strong and it is reasonable to assume a continuation of such.

CONCLUSIONS AND RECOMMENDATIONS

The diamond drill program on the Mission Group was successful in that it:

- Outlined the considerable extent of disseminated syngenetic pyrite and pyrrhotite within the Hedley Formation rocks (which probably explains the 1980 I,P. anomaly) in hole 87-1;
- 2. Outlined two areas of interest in hole 87-1;
- 3. Extended to depth the mineralized shear zones as intersected by

hole 87-2 and 87-3.

A such it is recommended that:

- 1. D.D.H. 87-1 be lithogeochemically sampled over intervals 10-45 feet and 200-248 feet. Samples should be split off over 3 foot sections and analyzed for gold, silver and arsenic.
- 2. D.D.H. 87-2 should be sampled for assay over intervals 58-63, 97-102, 113-115, and 121-125 feet;
- 3. D.D.H. 87-3 should be sampled for assay over intervals 50-54, 77-108, and 130-132 feet.

Additional sampling or follow-up programs could best be determined by the results of the above samples.

ITEMIZED COST STATEMENT

1.	Diamond Drill Program (all inclusive):
	736 feet (224.3m.) NQ core\$21,469.00
2.	Program Supervision:
	H. Plank, 12 days @ \$150.00/day\$ 1,800.00
	Food and accommodation\$ 650.00
	4X4 rental and gas\$ 300.00
	R. Kregosky, 1 day @ \$200.00/day\$ 200.00
3.	Report preparation:
	4 days @ \$200.00/day\$ 800.00
	TOTAL \$25,219.00

AUTHOR'S QUALIFICATIONS

I, Roy D. Kregosky, do hereby certify that I am a professional Geologist in the province of British Columbia. I received a B.Sc. in Geology from the University of Calgary in 1970. I have practiced my profession for the past 17 years and I am a Fellow of the Geological Association of Canada.

December 5, 1987



R.D. Kregosky B.Sc., F.G.A.C.

REFERENCES

B.C.M.M.: Annual Report - 1936

Phendler, R.W.: Diamond Drilling Report - Mission Property, 1981

Ray, G.E. et al: Geology of the Hedley Gold Camp. Open file map 1987-10a

White, G.E.: Geophysical Report on the Flint and Mission Claims - 1980

APPENDIX

Diamond Drill Logs

DDH No MONASHEE ages Resource Corporation 87 - I GEOLOGICAL CONSULTANTS NIS 92 H/BE DATE COLLARED Oct. COMPLETED: 1 LOCATION CORE SIZE: NQ 090° [45°] ELEVATION 1350M LONG. BEARING. DATE: GEOPHYSICAL LOG BY. DATE CORE LOGGED Nov.20, 1987 LOGGED BY: JOHN R. BELLAMY SCALE: sample assay results depth description miner. rec 0 10 will have collared in their bedded to westime (1"-8") hede of grey x talline to evenly syranene showed 4.5. interbedded with black F.g. tom. g. selly claste. 33% 10-35' - heavily oridized + shattered per veined grey-gun massive 1.5. w/ leases of lek. ang. Keavy Pyr. veining (5%) 25% @ 34-35' in x-culling veinlete <u>35</u>' Cale. grey mylanitie fault. (A.) graphitie 1-9" graphitic mylanite @ 30 ToCA graphitie 40% grey-gen sex talyed L.S. in bld. syr. clastic ang. beds. 95% up to 5% pm. bedg @ 50°-C.A. massive grey- Sele. 515T. - cale. w/ some m.g-c.g. clastics Syntie v. F. q. bounded SIST 1-4% .py. cuber PY. 56 histile homfelsed massive cale. 5/37. mura sys 62' U.F.g. grey-bin. Lilicified 2.5% Ayr. fract. @ 450 67 Ay. TOC.A. + FEO OK @ 67.5' altered triff Largion m. 9. felsie tuff@ 45° to C.A. py. upper contact - sibilified exidet. Fig to mig. histiged sell clastice w/ lensaid healite + 51 57. leures., 1/4 gt./lale.

	core depth	description		sample	as	say	res	suli	s	Pag
<u></u>	rec	<u> </u>	miner	no		1	1	1	1	~
		nothing v. F.g. weally fract. x		:			1			
		wanded Am SIST Silild @								
_	85.2	189 + cale lested fract. @ 20 CA								1
		c. q. ariented chart larg. conglow.						1		1
	001	graded, ang. felsie frag.								1
=	89.4	B9' + cole. Lesled hart. @ 20'CA c.g. oriented chart larg. conglow. graded, arg. felsie frag. lower cont. @ 24° to C. A.								
		V. F. q. black wassive syr.	9.1						 	1
		angellite, cale. healed fract.					•			1
-		with the sea later the							1	j
_		Carelo Ti ell x alid	. ,			1			1	
=		I sulli - the Felia.	Dyrike.							ł
_		with same ang. /s1st. /L.S. Conglamerate - Chl. + exid. Merian Sep. 10 96 - 99.5'	Sen.							1
		An. mars. aig. 99.5-105								1
									l	1
	105									1
_		intubedded Org. / Conglowerate								1
_		Constant to all to								
		Conglamerate - chert, ang. frag.,								
		SIST. in syr. arg. matrix.								1
		40% L.S. frag. @ 113 fragur. supported no org. water 4 % Ayro m.g. foliated, chl. altered felsic treff Largan Leds @ 30 to C.A.	Din. 1.						1	
	115	supported no org. materia & / Ayres	regure.				1	1		
-	118	m.g. foliated, chl. altered lolice					l			
-		till Raison fede @ 30 to C.A.							l ·	1
4									l	
		argillite - beds @ 30° to C.A.								1
	·	menas sen. in fine x cutting						1		İ
٦	1	last Ca Family								1
┪	128	fract. , a.g. F.g-m.g. clastic								
ᅥ	120	miner biolite Low felling								1
\dashv		miner biolite Low feling Conglewerate - ang / chert/]
_	/32	felsie - m. q. faliated, fist long								
٦		Interbedded Blk. ag Conglamente								
٦	138	m.g. py banded arg.								
7	130 .	m.g. py sanded arg.	_						-	
]
\dashv		chert-arg. frag. in org. matur								
\sqcup		4" L.S. frag. @ 144.					ì			
		2/0 pyro @ 146-147 m	synks.							
	148	frag. of L.S. / 5157. / chert- Agr.	ser.						-	ł s
+			———							} -
\dashv		Black wassine agillite		· •]				1
4				į		.]				1
_		ferrely shaltered w/ cale,	1		. [Ī			. !	1
ل		luvantee on frat.			I	ļ				1
1		Dyne flooded	Synta	. [- 1	Į	- 1			
1		The state of the s								
٦		subtle, che altuation			1	.			i	
\dashv		next to last			l	l	1			
4		rent to fract.		I	1	- 1	- 1		- 1	
4					ł	- 1	ļ		!	
			1		.	- 1	İ	- 1	- 1	
T					 					
7			.		- 1	- 1	- 1		j	
\dashv				· 1	.	- 1	- 1			
\dashv	, ,,, ,				-	1	- 1		- 1	
4	77.5	1.11r			- 1		- 1	1	- 1	
	78 1	Juff-Figuria. epido attend	f	1	1	ı	- 1	j	- 1	

461B 87-1 Page sample assay results m depth description no 3 miner. rec Asquellite Black v.F.g. fine hiatile floading 181-185, p.y. + to 186 1004 30 to CA. 202 tuff Laigon , shattend w/ Cale. 202.5 angillate - weakly bounded, F. q far. 207 Tuff- belding @ 30; org. altera local 209 argillite - blk. synho. markine to weakly bedded. WI bonds of chart. mevar ilicif. adjacent to pty-cale. vein & sade @ 211-213'@ 30° To C.A. 6" Tuff @ 215.2" 224-225- fourted 224-225- faulted toll lainen, argillie alter. of fault gouge 227 Oplite Silf into py! argillite

2 30 to into Ay! argillite

Argillite - Contact 27° to C.A.

Falore syste. F. 7 .. chl. acter. indictivel

9.01. contact - 29- 40° to CA. 228 231 234 Argillite

pynlo, + syn. stringers (1-3%) pynlo <u> 248</u> 249.5 Conglan. - ang. /check/8/51. ægillite 256 Conglamenale - L.S. / arg. /5/37. digillite - blk, massive x cut by fine ineg. pys. stringers. 267-269 - interbedded tuff & argillite, fractioned wich syr. coatings

				AG10 87-1		· · · · · · · · · · · · · · · · · · ·						
	n de,		r e % rec.	description	miner.	sample	a s	say	re	sul	t s	Page
արարու	-		rec	agillite of so univar toff	initie i.			-			-	9
hardand	. 28	7.3										
نسيليس	29	0		1 Totalelled tuff / Braellite 4" Conglomerate @ 290. 2	pyrdo					ļ	_	
السلسا				continuing interbeds of								
դրուրա				Suff & argillite - erieg. banded w/ some lenses		-						
ماسيلينا				cale tension goshes. also with syr.	syr.							
ահումա	1			- bede @ 55 To C.A.								
ուպուդ	1			@ 317' 1-3/0 pyrds. Orgillite @ 65° to C.A.	py.				- -			
համաս												
սևատևո		1										
ասևառևո	1											
اسلسا	33	e l		altered Toff/Argillete Leds.		-			1.0			
استلسليسا				- mottled for gen greenselist alt. cherty section w/ strong chl.								
lumur.		-	}	- histiged and silinfied - 40° to C.A.								
لسلسه	34	4		Papitie agillite								
	-	4		- blk. massine w/ mein biolite bounfelsed sitty agillite (348-349)								
				ægellile (348-349)								
	357	+		tuff (agillite interheds								
	363. 364.	5		banding, Eq M.g. @ 60° to C.A. Erg ("le Stratiform Pyrho-pyr."	· syndo							
	365.	7		mixed agillite tuff largement	2							
		1		- altred felsie toff chert! argillete Conglamente-syn!					1	+	\dashv	
	379.	s		fractives - cake. + chl.								
	~ 11.	士										

AGIO 87-1 Page sample assay results m depth rec description 5 miner. 380 Felsie Tuff - massive, on. q. green fragmental anhedral hubd. phenocrypts. - sericitie alt. 6" L.S. + attend Cake. SIST. @ 391'
contact ineg., py. on fract. py. 393 agistite / Cale. Sest. Tuff - 6" L.S. Selaw tuff contact @55 - Blk, pyr. argillite, histiged SIST. w/ encreas. cale. interhedds in slows structures strong chl. + calc. alter. @ 403 2" white markle fld @ 411" Cantining entrabeds of ang. [tuff. 434 strong fracturing w/chl. @ o to C.A. 436 6"- grn. tuff Langan@ 451 skattered w/4" altered tuff Louyon @ E.O.H. 454 End of Kale 87-1 @ 4541 (138.4 m.)

م		•	AGIO RE	SOURCE	- Con	OP		8	7-,	ح	
	co	•/		1	sample		ay				Page Z
m	depth	*00	description	miner.			1	1	1		ス
	121		_ upper contact @ 50° to C.A.								-
			allered Scapilized) zone	Du					· ·		
	125		altered (Srapilitized) zone dise. and their stringers of laws cantast @ 30° to C.A.	aspy.			ŀ		1		
<u> </u>			Town Canana So No C. A.						1	ļ ·	
_ [_									<u> </u>		
F		-	6.1166 87 3			•					
F			charge role 81-2			1			1		
			/31								
minimum.			End of Note 87-2 /31' (39.9 m)]		
Ē									1		
<u> </u>											
<u> </u>								}			
<u> </u>											
								•			
E											
E						1.					
								L			\$
<u> </u>	42%	'									
<u> </u>											
11								İ			
Ę											
				 					-	-	
					1						
<u> </u>										ļ	
արարական						4					
1											
-		11.									
E											
ma lateral tree			3.								
	-										
											1
and and and and and and and an											
E_l	L	l						!			

		· · · · · · · · · · · · · · · · · · ·	AGIO RESOURCE	E CO	RD.				87	- 3	4
m	c o depth	r e % rec	description	miner.	sample	ass	ау	res	ult 1	s	Page Z
	102		- 1/2" mineralijation @ 200 to C.A.	PY			· <u>- </u>				
- Lundu	107.5	-	Dio continues slicified contact gradational		-						
la la mada											
Luda			fresh dionite				=				
muluudud.						-					
hundan											
سأسل	1						! !				
alum.	/2/3										
- Lumb	/3/.3 /3/.7		- gty / mineralization @. 50° To C.A. contacts propilitized	DY							
اسطسا			fresh Dionite							-	``
nu dana											
			C. J. J. F. L. @7 2								
ահահ			End of Rale 87-3 @ 151' (46 m.)					N.			
ահատես			0 3. (10 m.)								
nad tundurulum lum											
mhund											
- I				ev V							
	-	To surge						-			
npunp	1										
miliani.											
السلسا											
Ē_	لــــا										