

Diamond Drill Geological Log

P.H. SEVENSMA CONSULTANTS LTD.

715 - 850 West Hastings St., Vancouver 1, B.C.

COMPANY

Iona Silver Mines Ltd.

1015 - 837 West Hastings

Vancouver, B.C. V6C 1C4

Objective: A-1 Extension North

Drilling Started: July 20, 1978, Drilling Completed: July 24, 1978

Logged by: P.H. Sevensma

Date: July 22, 1978

Samples Submitted to: Whitehorse Assay (Lab.) - Date:

Lat.:		Long.:		Place:	App. Bear.:	App. Dip.:	Length:
99.750 E		105.350 N		Tr. 11, Line 48 N, 120 W	Due East	-49°	413'
From	To	Length	Recov.	Remarks:			
0	10'	10'	0	No recovery, overburden Casing to 40'			
10'	31'	21'	3'	Chips and some core to 3.5" long, all Q. Probably overburden			
31'	40'	9'	6"	Start $\pm$ 2" blue gauge. Then all grey-black sand, with at least some and possibly much siderite. Maybe sideritic vein material in zone of oxidation.			
				Last 6", chips of Q. and Dol.			
40'	60'	20'	$\pm$ 15'	Broken core, S.D., some good slump breccia, but without the pseudo-stylo-lite patterns evident in the Canyon drilling. Also 1/4" - 1" rounded pebbles, softer than the S.D. matrix. Conglomerate? Some indistinct bedding? at $\pm$ 45°.			
				Last few inches: bluish-grey f. gr. Q.			
				At 44-46', some irreg. Py.-veining and one 1/8" veinlet of galena. Broken-up due to fracture planes and jointing.			
60'	60'	9'	6'	Well black-laminated grey-blue "flow breccia", Q. and S.D. elongated fragments 1/8" - 1/2" long, half that wide. Good laminae all through at 55° to 60°.			
69'	77'	8'	3'	Most loss 72-77' (8" broken core). Dense Bluish Q. to siltstone, mostly f. gr. very few quartz grains seen, but very hard and massive broken core.			
				Irreg. fracture planes filled with some black slate.			
77'	102'	25'	11'	Much core loss, especially 84 - 87' (6" of core). Black graphitic slates in elongated disks. Some good bedding at: 55°.			
				= much laminated soft black slate, $\pm$ graphitic. Some hard chert 95'-99' (1' of core)			
102'	117'	15'	7'	Well bedding-laminated soft black slate, at 70°.			
				Occas. 1/16" - 1" pyrite beds, usually with quartz			Property: Claim Dub 3
				matrix, maybe introduced.			Hole No.: 78-5
							Core Size: BQ (1 3/8") Page 1/3

Diamond Drill Geological Log

P.H. SEVENSM CONSULTANTS LTD.
715 - 850 West Hastings St., Vancouver 1, B.C.

COMPANY

2243

Objective: Drilling Started: Drilling Completed:

Logged by: Date: Samples Submitted to: (Lab.)-Date:

Lat.: Long.: Place: App.Bear.: App.Dip.: Length:

From	To	Length	Recov.	Remarks:
117'	122'	5'	4.5'	Bedding changes, fault gauge at start, then v. irreg. white carbonate (various fizzing) and some quartz veining, $\pm$ parallel to core.
				Still good V. thin bedding at 20° - 35° .
122'	130'	8'	7'	Brownish black massive appearing finely laminated "argillite" mostly good core 3" - 6" long. Banding at 30° to core, going to 5- 10° in last foot.
				This could be a marker bed.
130'	135'	5'	2'	Same, but broken up, contorted banding + quartz veining 131' - 132.5'. Gauge and crumbled core to 135'.
135'	142'	7'	1½'	Coal black graphitic slate, contorted broken bedding 25° - 40° . Very poor recovery
142'	145'	3'	1½'	Still broken coal-black graphitic slate
145'	173'	28'	28'	Nearly coal-black finely laminated graphitic argillite, very soft. Lam. 50° - 70° .
173'	181.5'	8.5'	7'	More dark grey bands coming in to 174.5', grey argillite with quartz and dolomite banding. Rest dark grey with black partings at 70° .
181.5'	218.5'	37'	35'	Essentially coal-black graphitic slate to f. lamin. argillite, with occas. 1/8" - 1/4" Py. $\pm$ Qtz. beds. Quite pervasive cleavage zones at 20° to 40° to core, at $\pm$ right angle to bedding. (flat bedding, steep cleavage?)
218.5'	269.5'	51'	51'	Beyond 181.5', the slate or argillite is predominantly dark-grey or grey-black
				Dark grey black finely lam. argill. to slate
				Light to med. grey lamin. beds 2"-8" thick starting to come in, as follows (all nearly all limey and fizzing strongly. 218.5', 232', 233', 239', 243', 245', 247', 248.5', 250', 251.5', 252', 254.5' (+ 1/4" Py. bed in siltstone) 256'
				259', 259.5', 260', 266.5', 269.5' There are finely
				v. dark argillite lamin.: 218.5' - 240', reg. but varying 30° - 60° .

Property:

Hole No.: 78-5

Core Size: BQ

Diamond Drill Geological Log

P.H. SEVENSON CONSULTANTS LTD.

715 - 850 West Hastings St., Vancouver 1, B.C.

COMPANY

Objective:

Drilling Started:

Drilling Completed:

Logged by:

Date:

Samples Submitted to:

(Lab.)-Date:

Lat.:

Long.:

Place:

App.Bear.:

App.Dip.:

-49°

Length:

413

From	To	Length	Recov.	Remarks:
				240' - 247': From 60° down to 0 and back. Gentle folding through 247' - 269.5'. Mostly very regular 50° - 60°. All cleavages mostly $\frac{1}{2}$ bedding
				Towards end, argillites are turning limey, starting somewhere around 259'
259.5'	289'	19.5'	19.5'	Reg. Lamin dark grey argillites, limey. Bedding regular 60° - 70°. Contortions near a limey $\frac{1}{2}$ 6" bed around 273.5'.
289'	295.2	6.2	6.2	Light grey limey arg. (highly limey) alternating with highly cleaved dark grey to black bands and laminations. Many slump structures especially in the dark beds. Good bedding at 65° $\pm$ 5°.
295.2	296.8	1.6"	1.6"	18" of: 2" of grey silty arg. with ankerite & galena 10" of dark lamin. arg. with irreg. pink dolomite veinlets $\frac{1}{8}$ " 1 1/2" of grey silty arg. with ankerite "fragments and galena 4" of black lamin. Arg. with one 1/8" veinlet with some Ankerite, mostly Py & galena 1" of grey Arg. with a 1/8" Py. bed and 1/16" galena veinlet. Bedding is at about 75° Definitely bedding controlled galena + Py.
296.8'	341'	44.2'	42'	Dark grey to occasional black graphitic A, to occas. light grey A. Most all finely banded at 70° $\pm$ 5°.
				Core loss and some graphitic gauge 334.5' - 335.5
341'	346'	5'	5'	Grey Arg. Banding Irreg. at 75°, lamin. to thin bedded
346'	349'	3'	3'	First bed of lamin. to banded Ironstone, Bedding 70°. Parts are argillite
349'	413'	64'	64'	Excellent core, good drilling. Succession of lamin. thin to thick-bedded ironstone and Argillite. Some quartz veins with some Ankerite, occas. Py, up to 1' wide in core. Often very narrow black partings
				All bedding 0° $\pm$ 70° throughout. Some Sections graphitic & black
				End of hole U.B.C. spec: 394, 392 (heavy A) 406'

Property:

Hole No.: 78-5

Core Size: BQ

Diamond Drill Geological Log

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COMPANY

Iona Silver Mines Ltd.

1015 - 837 West Hastings

Vancouver, B.C. V6C 1C4

Objective: A-1 Extension North

Drilling Started: July 24, Day Drilling Completed: July 25, Night

Logged by: P.H. Sevensma Date: July 26, 1978

Samples Submitted to: (Lab.)-Date:

Lat.: 99.750 E	Long.: 105,350 N	Place: North of Tr. 11, 120 W	Line 48N	App.Bear.: Due east	App.Dip.: - 75°	Length: 86'
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From	To	Length	Recov.	Remarks:
0	10'	10'	0	Overburden, casing to 70'.
10'	24.5'	14.5'	5'	Fair core 10 - 19, round buttons abundant 19 - 24.5 (16" core t) All Q.
24.5'	32'	7.5'	5'	Q. somewhat to f. gr. hard siltstone at base. From 27-32, increasing Qtz. veining at about 55° to core, 1/32' - 1" wide.
32'	33'			Top 4" still hard, siliceous. Then S.D. Ankerite veining at 35° to core, 1/8" veins S.D. with vugs up to 1" long
33'	46'	13'	13'	Core quite broken. Massive S.D. Ankerite veining at 20° - 45° to core, especially strong at 36', with some siderite 1/16" - 1/8" veinlets throughout this section, maybe 1 or 2 pinpricks per cubic inch on the average, i.e. estimated at 0.6% Pb for the 13'
46'	52.5'	6.5'	6.5'	Massive S.D. good drilling; gets to be pebbly slump breccia to congl. at 52'
				Sudden stop on ankerite surface at 50° to core at 52.5; looks like a vein wall
52.6'	56'	3.5'	4"	A few pebbles of hard f. gr. Q.
56'	70'	14'	6'	All sand, except black, cherty to quartzitic chips for 6" at 62'-63'. (Sands 1080 ppm Pb)
				Rest all black sand, quite similar to 78-5. Probable A-1 vein zone.
70'	76.5'	6.5'	4"	Chips of cherty, quartzose black slate to chert.
76.5'	83.5'	7'	5.5'	Regular, well thin bedded to lamin. black slate, bedding at 70°. Some cleavage at 81-81.5' at ⁺ right angle to bedding. Typical black to dark grey slate, ⁺ graphitic
				Some 1/8" Py. banding, contorted with calute.
83.5'	86'	2.5'		No core 77.5 - 78'
86'				End of hole

Property: Claim Dub 3

Hole No.: 78-6

Core Size: BQ (1 3/8") Page 1/1

DD45

Diamond Drill Geological Log

P.H. SEVENSMA CONSULTANTS LTD.
715 - 850 West Hastings St., Vancouver 1, B.C.

COMPANY

Iona Silver Mines Ltd.

#1015- 837 West Hastings St.

Vancouver, B.C. V6C 1C4

Objective: A-1 Extension North

Drilling Started: July 25, Night Drilling Completed: July 26, Night

Logged by: P.H. Sevensma

Date: July 26/27, 1978

Samples Submitted to:

(Lab.)-Date:

Lat.: 99.710 E	Long.: 104,960 N	Place: Line 4400 N, 200 W	App.Bear.: Due East	App.Dip.: -50°	Length: 126'
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From	To	Length	Recov.	Remarks:
0	14'		0	Overburden Casing to 20'
14'	42'			Brown-spotted Q, very rusty and blocky, much core loss and pebbles at ends of the runs. Massive throughout.
42'	51'	9'	5'	Massive Q, Occas. suggestion bedding at 45° med. coarse.
51'	53'	2'	1.3'	F. gr. Q. Core blocky.
53'	62'	9'	6.5'	Siliceous dolomite. Some vague bedding at 45°. Core blocky.
62'	72'	10'	4'	Very blocky f. gr. Q. to dense Q., 64' - 69': 2' of core, mostly buttons, grinding= fine siltstone to grey chert.
72'	77'	5'	3.5'	S.D. massive, to vaguely laminated at 70°.
77'	90'	13'	6.5'	Thin-bedded grey to dark grey argillites, some narrow black graphitic bands, occas. Py. bands $\pm 1/4"$. Lamin. good at $\pm 55^\circ$.
90'	44'	4'	3"	A dozen buttons of quartzose graphitic slate, minor Py, between 90' - 94'.
94'	126'	32'	18'	Finely lamin. to near-massive black argillite, with foliation at about right angles to bedding were both present. Bedding 75° - 80°. Foliation cleavage $\pm 25^\circ$. Often some v. fi Py. Core loss bad. 96' - 107' (for 11', only about 4.5' of core), mostly because of graphitic fault planes // cleavage.
126'				No core, only black sand. Drill suddenly penetrated rapidly at 126' and beyond. This is the sought for vein-fault position, but same sand as in section 4800 at trench 11 core-holes 78-5 & 78-6. Only 70 ppm Pb however.
126'				End of hole

Property: Claim Dub 3.

Hole No.: 78-7

Core Size: BQ = 1 3/8" Page 1/1

RxMxSevenxmaXxConsXKnoxXsXxLxck
715xXx850xWestXxHastingsXxStXxVancouverXxB.Cx

COMPANY Iona Silver Mines Ltd.
1015 - 837 West Hastings Street
Vancouver, B.C.

[illegible]

715 xx 850 xxwks x x hcs nngs x str x vancuwa k x 186 x

COMPANY Iona Silver Mines Ltd.
#1015 - 837 West Hastings St.
Vancouver, B.C.
V6C 1C4

KETZA RIVER

ASSAY REPORT: Whitehorse Ass. Off.,
126-11 & A-2033-5

HOLE No. 78-6

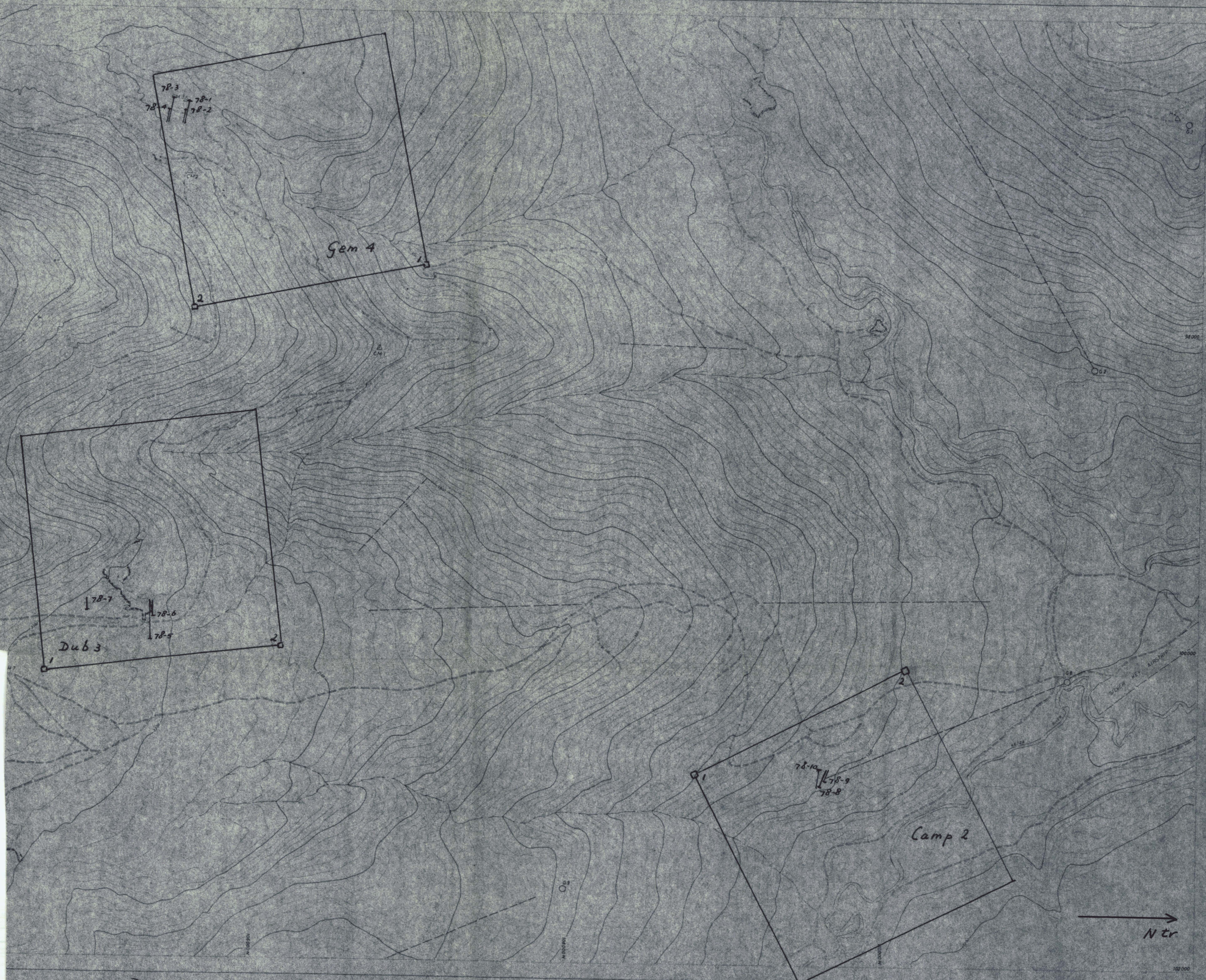
Page 1 of 1

7X5*-x850xWfKxxHnsixtoxx6xxxvancopverxxLBCx

Property :

KETZA ROVER

ASSAY REPORT: Whitehorse Ass. Off. A-2033-5 DATE: August 4, 1978 HOLE No. 78-7 Page 1 of 1



Drawn by P.H. Sevensma.
August 1978.

IONA SILVER MINES LTD
NETZA RIVER - Y1

FEET 400 200 0 400 800 FEET

1978 Core-hole
Drilling
July 8 - August 2, 1978

C	F	K
B	(S)	J
A	H	I