



LOGAN MINES LTD. n. p. 1.

ROMAN CLAIMS

Watson Lake, Yukon Area



November 26, 1980

V. Cukor, P. Eng.
N. V. C. Engineering Ltd.

090689

LOGAN MINES LTD. n.p.l.

ROMAN CLAIMS

Watson Lake, Yukon Area

REPORT ON DIAMOND DRILL PROGRAM:

During the period from October 17th to 28th, 1980, the author supervised a diamond drill program on behalf of Logan Mines Ltd. of Vancouver, B. C. The program was performed on the Roman Claims, comprising 16 mineral claims, situated about 2.5 miles S. E. of Watson Lake, Yukon, straddling Liard River. The claims are owned by J. Melnychuk of Watson Lake and the program was conducted as part of the assessment of the mineral showing, for the purpose of obtaining the option on the property.

The drill contract was awarded to Vancouver based Ace Drilling, who employed a Hydrawink drill to recover B.Q. core. A total of 404 feet in two holes was drilled.

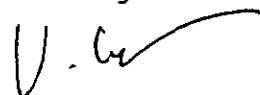
Mobilization and demobilization was by 4 x 4 from town to Liard River, and by small boat to the property. Heavier equipment was mobilized by helicopter of Frontier Helicopters Ltd. from Watson Lake. Daily crew mobilization was provided by truck and boat.

Drill was set up on the river bank, west of the "main showing" where a 3 - 4 meter wide barite vein outcrops along a bluff, which is at least 50 feet high. The vein also contains silica, some galena, sphalerite, chalcopryrite and pyrite. The objective of the program was to drill about three 200 foot holes, to intersect and sample the vein along the strike length of approximately 100 - 150 feet, and about 150 feet below the lowest point of the outcrop.

The first hole, drilled perpendicular to the vein at -60° intersected 4.4 feet of vein material, which consists mostly of quartz with some barite and pyrite and minor galena. The section from 178.2 to 162.6 feet assayed .10 oz/t Ag., .31% Pb., .014 Zn., 1.26 BaSO₄ and 75.3% SiO₂. The second hole, drilled in a general easterly direction, intersected no vein. Instead, it recovered a wide zone of fractured rock, the fractures filled with quartz. The zone from 35.5 to 38.1 feet, with three bands of solid pyrite, assayed .002 oz/t Au., trace Ag. and .015% Zn. After achieving unfavourable results from the first two holes, further program was suspended and recommendation was given to the Company not to exercise the option on the property.

The claim location map, drill logs and assay certificate from the General Testing Laboratories are appended to this Report.

Respectfully submitted,



V. Cukor, P. Eng.
N. V. C. Engineering Ltd.

DIAMOND DRILL RECORD

COMPANY LOGAN MINES LTD.

PROPERTY Roman Claims

Hole No. D.D.H. -1
 Date Begun October 15, 1980
 Date Finished October 19, 1980
 Drill Hydrawink
 Core Size B.Q.

Lat. _____ Total Depth 206 ft.
 Dep. _____ Logged by: V. Cukor
 Bearing 58° Date October 21, 1980
 Elev. Collar _____ Claim Roman 11
 Dip -60°

NVC engineering ltd.
 VANCOUVER, B.C.

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0 - 7			Casing, no core.	
7 - 46	39	100	Black, graphitic shale, at the start of interval badly fractured and mostly recovered as small fragments. Bedding is prominent at 45° to core axis. White calcite coats the bedding planes and/or hairline fractures. Some pyrite is also present. From 45'4" to 45'10" recovered several rounded fragments of quartz vein with some minor pyrite.	
46 - 48	2	-	No core.	
48 - 178.2	103	78	Shale as above. Bedding is changing down the interval to 60°, then to 90° and toward the end of interval back to 50°. Calcitic laminations are prominent feature of the interval. Some irregular fractures are also filled with calcite and seldom with quartz. Some minor pyrite appears throughout. Narrow calcite, quartz and/or barite veins are found throughout, usually recovered as broken up rounded fragments. Such veins were at 66 feet 1 inch wide, 67 feet 2 inches wide. From 75 to 105 more intense calcite and quartz veining with 4" quartz vein at 83 feet. From 78 to 88 feet lost 5 feet of core and the same from 123 to 133 feet. Toward the end of interval core is more solid and recovery is better.	

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
178.2 - 182.6	4.0	91	Quartz calcite vein, with some barite, pyrite and minor galena. Vein material is in places intensely brecciated and some vugs with quartz crystals are locally developed. No clear contacts could be observed since in both areas core is broken up and recovered as small fragments.	
182.6 - 206	23.0	98	The same shale as above the vein. Bedding is observed at 70° to core axis. Some calcite veining and occasionally pyrite are noted throughout. Some pyrite also appears in 1 - 2 mm. wide bands more or less parallel to bedding. From 199 to 200.1 feet is breccia consisting of shale fragments in quartz matrix, and the same is at 203 to 204 feet. Last section also contains some gouge. Beyond 206 feet the hole was drilled for two more feet, but no core was recovered.	
206			End of hole.	

V. G.

DIAMOND DRILL RECORD

COMPANY LOGAN MINES LTD.

PROPERTY Roman Claims

NVC engineering ltd.
VANCOUVER, B.C.

Hole No. D.D.H. - 2
Date Begun October 22, 1980
Date Finished October 26, 1980
Drill Hydrawink
Core Size B.Q.

Lat. _____ Total Depth 198
Dep. _____ Logged by V. Cukor
Bearing 90° Date October 27, 1980
Elev. Collar _____ Claim ROMAN 11
Dip -47°

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0 - 6	-		No core, casing.	
6 - 198	160	83	<p>Graphitic shale, black, with bedding at about 20° to 30° to core axis. From 23 to 88 feet, light grey calcitic bands are most prominent. From 35.5 to 37.8 feet there are three bands of solid pyrite 2 inches thick each. From 37.8 to 38.1 is pyritized quartz. From 42 to 43 feet, there is brecciated quartz and broken up core. From 43 to 48 feet only 2 feet recovered and from 48 to 53 feet 3.5 feet recovered. Quartz and calcite veins are most prominent again from 38 to 88 feet, which includes 6" of brecciated quartz at 58 feet, and 5" of breccia with quartz and pyrite at 66.5 feet. At 69 feet there is ½" band of pyrrhotite parallel to banding. From 77.8 to 81 feet is breccia with quartz matrix, which includes 3 inches of solid, white quartz. From 78 to 88 feet recovered only 5 feet.</p> <p>From 88 feet core is better recovered. Bedding is at 20° to core axis. Good recovery is down to 128 feet where bedding changes to 45°. From 128 to 138 only 5 feet recovered. At 133 some broken up and rounded quartz. From 153 feet poor recovery again. From 173 to the end of hole intense silicification which appears as stock-work of irregular quartz veinlets, fracture and vug fillings and occasional 1 - 3 inch solid quartz veins. Very occasionally some pyrite also appears.</p>	

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
198			<p>At 188 feet there is fault gouge with some quartz fragments (from 188 - 198 only 3 feet recovered, and of this 3 inch, solid, white quartz). Beyond 198 feet another 5 foot section was drilled, but no core was recovered.</p> <p>End of hole.</p> <p style="text-align: right;"><i>U. G.</i></p>	



General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUPERVISE

TO:
N.V.C. ENGINEERING LTD.
 2830 West 37th Avenue
 Vancouver, B.C.

CERTIFICATE OF ASSAY

No.: 8010-2959 DATE: Nov. 3/80

We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	SILVER	Lead	Zinc	Silica	Barium Sulfate	XXX	XXX
	oz/st	oz/st	Pb (%)	Zn (%)	SiO ₂ (%)	BaSO ₄ (%)		
1005	-	0.10	0.31	0.014	75.3	1.26		
1006	0.002	trace	-	0.015	-	-		

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

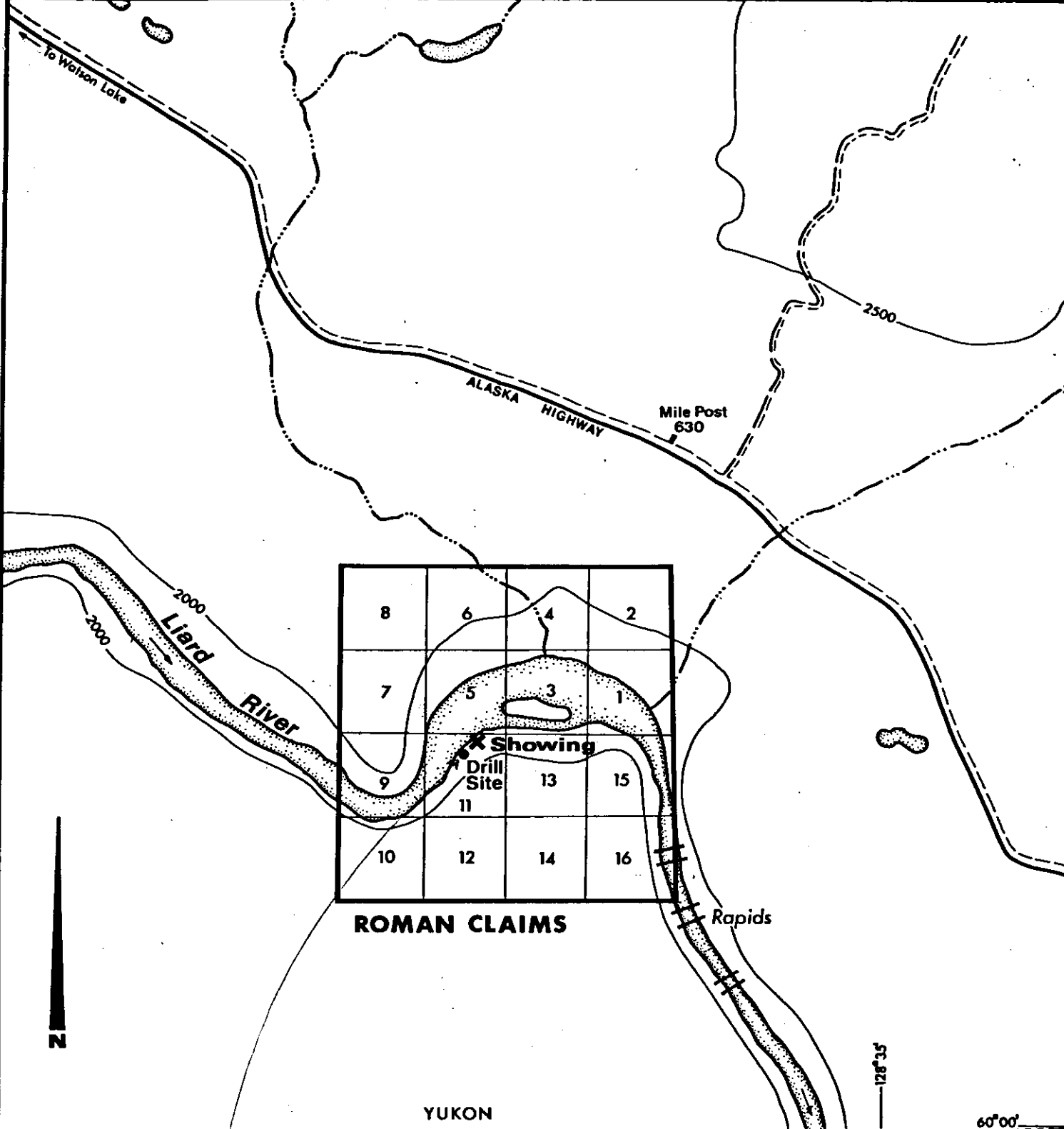
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PROVINCIAL ASSAYER

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MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association
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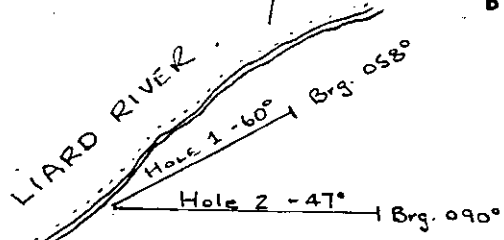


8	6	4	2
7	5	3	1
9	11	13	15
10	12	14	16

ROMAN CLAIMS

YUKON

BRITISH COLUMBIA



SKETCH OF D.D. HOLES

SCALE 1" = 100'

LOGAN MINES LTD.

CLAIM LOCATION MAP

WATSON LAKE M.D., Y.T.

NTS 105 A/2

V.CUKOR, P.Eng.

NVC ENGINEERING LTD. VANCOUVER, B.C.

DATE: Nov. 1980

SCALE: 0 1000 2000 Feet

FIG. 1