ROVER AND KEYSTONE PROJECTS

GEOLOGICAL GEOCHEMICAL REPORT

on the

ROVER, EURN, COVER, RIDGE, FALLS, BLUE GOLD, RED BOG, KEYSTONE, BONANZA LODE, MIDNITE, RIVER QUEEN #1#2#3 CLAIMS

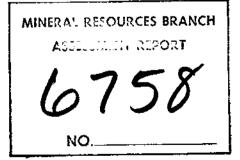
NICOLA MINING DIVISION 92H/11E (120°,00; 49° 45')

by

K.W. LIVINGSTONE, M.Sc., GEOLOGIST

for

WESTERN MINES LIMITED. Vancouver, B.C.



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GEOLOGY ALTERATION SILT AND SOIL GEOCHEMISTRY ROCK GEOCHEMISTRY LOCATION PLAN

INTRODUCTION

The ROVER and KEYSTONE projects are porphyry molybdenum prospects in the Coquihalla Pass area in southern British Columbia. The project areas comprise twelve contiguous claims totalling 84 units. A good gravel road services the area from Merritt and Hope, B.C., during the snow free months, generally May to December.

Both project areas have been staked and worked by many mining companies in the past but only recently did the claim situation simplify to allow one operator to evaluate the area as a whole. The significance of the Pb-Zn-manganese mineralization in the KEYSTONE project area in terms of peripheral mineralization in a porphyry molybdenun system does not appear to have been recognized previously. A programme of detailed outcrop mapping and sampling was completed on the ROVER project area in July and August and on the KEYSTONE project area in October. In December new road cuts made by loggers on the ROVER claim were examined and a drill core from the KEYSTONE project area was examined and partly assayed. Prospecting and mapping in the area between the KEYSTONE and ROVER during this programme lead to the discovery of a previously unknown zone of molybdenum mineralization.

Three base maps were prepared at 400 feet/inch scale, Rover map 1, the Blue Gold-Red Bog map 2, and Keystone-Bonanza Lode map 3. (The latter two are the KEYSTONE Project). Outcrop geology, alteration, soil and silt geochemistry, and rock geochemistry maps for each at molybdenum, manganese, flourine, lead, and zinc have been prepared for each map area. Rock and alteration units are field map units. No thin-section petrography has been attempted.

Three areas of interest have been defined by alteration mapping and rock geochemistry; the ROVER prospect centered on a multi-stage breccia system within the Eagle batholith and two centers in the KEYSTONE project area, the Blue Gold-Red Bog system and the KEYSTONE system.

The Blue Gold-Red Bog is a zone of quartz veins with minor molybdenum and chalcopyrite in altered Eagle granodiorite.

The KEYSTONE center is an area of Pebble Breccia containing silicified molybdenite-pyrite mineralized fragments. The breccia cuts pervasively sericitized biotite quartz monzonite mineralized with manganese.

Each of these map areas is described below. <u>ROVER PROJECT</u>

<u>Geology</u>

The ROVER prospect is centered on an area of breccias which intrude Eagle granodiorite. The Eagle grandiorite is part of a larger batholithic intrusive complex which extends from Lytton to south of Princeton. In this prospect area it is weakly foliated biotitehornblende granodiorite with local zones up to 10 feet

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of paragneiss. Pods and irregular lenticular zones of quartz-feldspar pegmatite crosscut foliation. These are small and narrow.

The ROVER prospect has three distinctive breccias although the relationship between them is not completely understood because of insufficient exposure.

The earliest breccia (Breccia C) is an annealed "rock" breccia composed of fragments of Eagle granodiorite cemented with comminuted rock. Fragments are variable in size from a few inches to several feet. There is minor disseminated pyrite (1%) in the matrix. This breccia type is found as fragments in a later breccia (Breccia B).

Breccia B is a polymictic breccia composed dominantly of Eagle granodiorite (90%) Breccia C, (5%) and quartz porphyry (5%). The matrix is coarse quartz, pyrite, and minor molybdenite and comprises 5 - 10% of the rock. The fragments display various types of alteration and mineralization. Some quartz porphyry and Eagle granodiorite fragments have reticulate quartz veins and fractures with molybdenite and pyrite.

Breccia A is of unknown age with 10 - 30% matrix quartz and calcite. It is composed mainly of Eagle granodiorite fragments with minor quartz porphyry.

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Quartz porphyry is present as narrow dykes from a few feet to 20 feet wide in the Eagle granodiorite adjacent to the zone of breccias. It is also found as fragments in Breccia A and Breccia B, more commonly in Breccia A. Although it is difficult to be certain because of the weathered and moss covered nature of the outcrops and poor outcrop distribution, it appears that most of the quartz porphyry fragments in Breccia B are confined to a zone about 400 feet wide trending northeast (c.f. Alteration map).

One dyke of quartz monzonite was noted in Eagle granodiorite. The relationship with other rock types is unknown.

A few dykes of biotite-feldspar porphyry appear to cut Breccia A, and one piece of float containing a fragment of quartz porphyry suggests that it postdates quartz porphyry.

Two small stocksof a biotite-hornblende quartz diorite intrude the Eagle granodiorite and the Breccias. The extent of a small road-cut exposure quartz diorite in the recent December logging is unknown.

Andesite dykes are noted in Eagle granodiorite and in Breccia B. One occurrence has sheared contacts with breccia and may be a large fragment in the breccia. Elsewhere it cuts the breccia sharply. There may be two ages of andesite dykes (c.f. Keystone - Bonanza Code Area)

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- an early dyke related in some way to the Eagle granodiorite, and a later one associated with the late stages of the breccia-sulphide system.

ALTERATION

The area of breccias is generally surrounded by an area of quartz veins, fracture pyrite and fracture and envelope sericite in Eagle granodiorite. This zone of alteration is not defined northwest of the breccia because of lack of outcrop. An outer limit of fracture chlorite and abundant fracture hematite with rare quartz veins can also be mapped.

Alteration within the breccia is variable from fragment to fragment.

Breccia A locally contains pervasive chloritized fragments and matrix chlorite but most often is biotite stable. Breccia B displays most variation in alteration. The Eagle granodiorite fragments range from unaltered biotite-hornblende granodiorite, to some with fracture chlorite-pyrite, or pervasively chloritized Eagle with fracture pyrite and quartz veins or pervasively sericitized Eagle. There is a zone in which fragments of well altered Eagle are more common which roughly coincides with the zone in which quartz porphyry fragments are found (c.f. above and Alteration map).

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The quartz porphyry fragments are mainly altered to pervasive chlorite and sericite in the southwest end of Breccia B and K-spar altered fragments are found on the edge of overburden cover to the northeast. Often the quartz porphyry fragments display reticulate quartz veins. One small exposure of quartz porphyry with leached mineralized fractures with K-spar envelopes is present in an overburden covered area between Breccia A and Breccia C.

Alteration of Eagle fragments in Breccia C is also variable but mainly less altered than those in Breccia B. There are a few pervasively sericitized Eagle fragments in the most northerly exposures of Breccia B.

Several small zones (up to 70 feet diameter) of intense pervasive sericitized Eagle granodiorite are present in Breccia B and the unbrecciated Eagle granodiorite.

This alteration event is post-Breccia B and is a mineralizing event. These sericite zones may represent alteration caused by an intrusive event not recognized at surface.

The biotite-hornblende quartz diorite stocks are mainly pervasively chloritized but unmineralized. The southern outcrop of the southernmost stock is locally unaltered. The small road cut exposure in the recent logging contains minor quartz veins with anomalous Pb and Mo. These stocks are late-mineral in age.

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Several stages of alteration and mineralization are evident in the Eagle granodiorite adjacent to the breccias. Veins and fractures have been sampled to distinguish mineralizing events. The earliest alteration lies along unmineralized fractures with envelope sericite grading to chlorite and then fresh biotite. The alteration envelopes are up to several inches wide. There are two later stages of quartz veining which are difficult to distinguish because each may have K-feldspar, sericite or chlorite and the selvages and envelopes may be sericite or chlorite. The age relations between quartz veins are only locally evident. The earliest quartz vein is quartzpyrite and the latter is quartz-molybdenite. The latest event is fracture chlorite-pyrite.

Molybdenum

Molybdenum is present in mineralized fragments of quartz porphyry and Eagle granodiorite in Breccia B. Breccia B also has minor disseminated molybdenite in the matrix. In addition there are scattered quartz veins in the Eagle granodiorite adjacent to the breccias with minor molybdenite.

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The best mineralization is exposed in a creek bed between samples 161 to 165, where Breccia B contains mainly pervasive sericitized Eagle fragments. At sample 157, fourteen samples of breccia fragments were assayed and averaged 160 ppm Mo. Samples 185 and 189 are also pervasively sericitized breccia which assay 92 ppm and 130 ppm Mo.

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respectively. These samples appeared to be completly leached.

The average assay for Breccia B is 77 ppm Mo. (34 samples).

The quartz vein material in the Eagle granodiorite locally ranges to 750 ppm Mo but veining is not abundant enough to have a significant total rock assay. The best M_0S_2 mineralized quartz veins are associated with high Pb and quartz-chlorite mineral assemblage.

The molybdenite in the quartz veins tends to be medium grained but is generally very fine grained in Breccia B.

Breccia C is weakly mineralized, 9 - 74 ppm Mo. Breccia A is poorly mineralized compared to Breccia B and Breccia C.

<u>Manganese</u>

Manganese is not present in any significant amounts on the ROVER prospect. One sample of pervasive sericitized Breccia B (sample 185) assays 1120 ppm Mn. Flourine

Flourine geochemical assays do not display any significant pattern. Samples 189 and 192 are pervasively sericitized Eagle Breccia B and Eagle granodiorite (c.f. Alteration map) and contain anomalous flourine assaying 900 ppm F and 935 ppm F.

Lead and Zinc

No anomalous zinc is present. There are scattered anomalous values for lead ranging from 100 to 690 ppm Pb in quartz veins in Eagle granodiorite, adjacent to the Breccias. STRUCTURE

The Eagle granodiorite has a regional northwest trending foliation, usually striking about 130° with 60 NE to vertical dips. These attitudes in adjacent unbrecciated granodiorite do not appear to have been affected by the brecciation.

Quartz veins and dominant fractures on the west side of the breccia zone trend north-south and dip gently $20^{\circ} - 30^{\circ}$ east. On the south side of Breccia B the quartz veins are $110^{\circ} - 120^{\circ}$ and $60^{\circ} - 70^{\circ}$ NE. On the east side they are mainly northerly with steep east dips.

Quartz porphyry dykes trend northeast at the southwest end of the system and northwest at the southeast end of the system.

Breccia B and Breccia C may be elongate bodies similar in orientation to the quartz porphyry dykes. Breccia B contains a northeast trending zone of quartz porphyry and altered Eagle granodiorite fragments.

The combination of these structures, the distribution of rock types and alteration of the quartz porphyry fragments suggests a center to the system at approximately 40N 15E.

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SUMMARY AND RECOMMENDATIONS

On the ROVER property, three breccia bodies lie within an alteration halo containing fracture pyrite, quartz veins with minor MoS2, and fracture and envelope sericite in Eagle granodiorite.

Within Breccia B, the best mineralized of the form w three breccias present, is a zone containing quartz porphyry fragments with veinlet MoS₂ and altered Eagle granodiorite fragments. This comprises the main area of interest. Average grade of Breccia B is 77 ppm Mo based on 3⁴ surface samples with varying amounts of leaching. Alteration of the quartz porphyry fragments changes from chlorite-sericite to K-feldspar from southwest to northeast at the edge of overburden cover. This mineralized trend under cover defines a target area within the system where significant tonnage of ore grade mineralization could be present near surface. This area roughly coincides with the center of the system defined by alteration mapping and generalized structural orientation.

Although initial work should be concentrated to find surface or near surface ore, consideration should be given to a deep target as well. Other intrusives are known in the area (c.f. Blue Gold-Red Bog and Keystone-Bonanza Lode) and Breccia B is locally altered to intense pervasive sericite suggesting a younger hydrothermal event. The breccias, in particular Breccia B, may roof a mineralized intrusive.

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Quite fortuitously, proposed immediate logging by Nicola Valley Sawmills is located in an area roughly corresponding to the "limit of quartz veins and fracture pyrite". Therefore, it is proposed to wait until summer 1978 in order to examine the logged area for new bedrock exposures. If no further geological data is available, then trenching should be attempted in the overburden covered area, in the proximity of the K-feldspar altered quartz porphyry (sample 197), and in a northwest trending direction from existing trenches towards sample 161. This should adequately test the potential for any surface ore, assuming that the degree of surface leaching can be determined.

Diamond drill recommendation should be based on examination of the new geological data. If no significant change in geology is found by trenching, then four NQ diamond drill holes should be spaced within the breccia system and drilled to 500 - 700 feet. Casing should be left in each hole. If no ore is encountered in this drilling, one or two of the holes should be deepened to 1500 feet. Hole selection for deepening should be based on alteration, geology, and rock geochemistry.

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KEYSTONE PROJECT BLUE-GOLD - RED BOG MAP AREA

GEOLOGY

The Blue-Gold - Red Bog system is centered on a zone of quartz veins in Eagle granodiorite. This area of interest is defined by alteration mapping and rock geochemistry. Immediately southeast of the zone of quartz veins is a stock of medium grained biotite Quartz monzonite. Adjacent to the area of interest the stock is unmineralized, unaltered, and devoid of quartz veins and at first glance would appear to be post-mineral. However, the south end of the stock on the Keystone Claim is altered and mineralized.

The system is intruded by narrow late-mineral biotite (chlorite)-feldspar porphyry dykes and post-mineral andesite dykes. One occurrence of quartz porphyry dyke was noted although there is further evidence of quartz porphyry in float on the east side of the ridge.

ALTERATION

An alteration pattern consisting of three zones has been mapped. The outer limit of the sulphide system is defined by pervasive chloritization of the mafics in Eagle granodiorite. This roughly coincides with 1% - 2% pyrite. Alteration outward from this line is decreasing partial chloritization and decreasing fracture pyrite. There may be local narrow zones with pyrite, fracture chlorite, hematite and manganese and rare quartz veins.

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Internal to the pervasive chlorite is a zone of alternating pervasive chlorite and biotite stable Eagle granodiorite with quartz veins. These zones may be several tens of feet wide. Quartz veins tend to be thin and reticulate. Some megascopic sericite is present with the chlorite in local zones.

The central alteration zone is biotite stable Eagle granodiorite with abundant quartz veins. The biotite in the foliated granodiorite is randomly oriented in foliated clots. This suggests that this biotite is recrystallized from the original planar oriented biotite of the Eagle granodiorite. Two explanations are possible. The random biotite could be a pervasive hydrothermal alteration caused by the mineralization or a product of pre-mineral contact metamorphism caused by the adjacent Quartz monzonite stock, which is unaltered and unmineralized.

It should be emphasized that the alteration system is not closed off by surface bedrock mapping. It potentially could open to the south along the ridge on unstaked ground.

MINERALIZATION For Court Rod Page Molybdenum

The best molybdenum exposed in either project area is present along the banks of a north flowing creek of the Blue;Gold claim. Complete leaching is quite deep (6 inches to 1 foot) for proper surface sampling. Selected grab samples from small pits range from 62 to 980 ppm Mo.

To examine the effect of leaching, the variation in rock geochemistry in similar alteration zones is examined in the table below:

Alteration	Zone	Sample No.	PPM Mo	PPM Mn
Pervasive C	hlorite	628, 746	80-136	165-180
11	Ħ	626, 627	6	185-260
11	17	709, 710	4- 19	340-190
11	11	730, 731	1 . 3	250-310
n	"	C-509	62	145
Mixed Zone		716, 717A, H	B 2	320-360
91 EF		727, 718	29- 40	290-350

It is apparent that wide variation in rock geochemistry exists within similarly altered rocks in close proximity and in the same structural setting. This is believed to be due to variable leaching. If consideration is to be given to the rock geochemistry pattern as a guide to diamond drilling then unweathered rock samples must be acquired. It is recommended that several short percussion holes (50 feet of unweathered rock) be drilled to establish the relationship between alteration and rock assay.

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Leaching is less of a problem in the biotite stable alteration zone on the ridge. Samples 721 - 725, 735 - 740 are mainly quartz vein material from backhoe trenches. There is a general increase in Mo content towards the northwest end of the trenches. No attempt was made to distinguish between different stages of quartz veins because of active snowfall. This should be done as an aid to interpreting diamond drill core. It should be noted, however, that at least three stages of quartz veins are present.

OTHER ELEMENTS

Rock geochemistry assays for manganese, flourine, lead and zinc are uniformly low. Copper was not assayed but malachite and minor chalcopyrite was noted occasionally. A soil survey of the ridge area of the Blue-Gold - Red Bog claims by El Paso Mining and Milling Company in 1973 indicates local anomalous zones for copper and a broad anomalous zone for molybdenum.

STRUCTURE

The regional foliation of Eagle granodiorite is $130^{\circ} - 150^{\circ}$ with 75° NE to vertical dips. Quartz veins are present in the plane of foliation. On the ridge, quartz vein orientation is quite variable in strike and dip although the dominant direction is parallel to foliation. Dykes crosscut foliation at small angles, $10^{\circ} - 15^{\circ}$, in a more westerly direction.

A late structural element is hematite (specularite)-carbonate veining which form the locus of minor fault, typically a few inches. This trend is $050 - 060\ 70^{\circ}$ SE to vertical dips. It is quite abundant in those exposures in the creek on the Blue-Gold claim. Elsewhere it is a dominant fracture and may have manganese.

SUMMARY AND RECOMMENDATIONS

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The Blue-Gold - Red Bog prospect is centered on an alteration system in Eagle granodiorite defined by pervasive chlorite and quartz veins. The area of alteration is about 3000 feet by 2500 feet. Best MoS₂ mineralization observed to date is in pervasive chlorite altered rocks in the northwest end of the alteration system. Some doubt exists about the validity of surface rock geochemistry reflecting true grade because of the effects of leaching. It is unknown if the broad zone of pervasive chlorite would be more likely to lead to ore closer to surface than the biotite stable granodiorite with quartz veins, in the center of the alteration system. There is no doubt that the biotite stable alteration zone is the best area for deeper targets. It is recommended that several short percussion drill holes (50 feet of unweathered rock) be drilled to establish the relationship between alteration and rock assay with some certainty.

The pervasive chlorite alteration in the southeast part of the map area diverges significantly away from the Quartz monzonite stock in an area of poor exposure. A few percussion tests in the overburden covered area is recommended.

The Blue-Gold and Falls claims are not completely mapped. Several local zones of sericite-pyrite pegmatite were noted in reconnaissance work but not evaluated. The geological relationship of these zones with the other mineralized areas should be understood. Also Pebble Breccia float in the creek on the north end of the Falls claim was not found in place. The alteration on the Blue-Gold is open to the south and anomalous soil geochemistry for Mo extends south of the present claim boundary. This mapping should be completed before any further physical work is attempted.

If no significant changes in the extent of the alteration system area found and no surface ore is encountered by percussion drilling, then four 500 - 700 foot holes NQ diamond drill holes are recommended at sample site 725, 740, 717 and part way between 729 and 730. One or more of these holes may be deeped to 1500 feet based on geology, alteration and rock geochemistry.

KEYSTONE PROJECT

KEYSTONE - BONANZA LODE MAP AREA

GEOLOGY

The Keystone and Bonanza Lode claim areas have been actively explored in the past. Much of the data presented here is based on mapping existing trenches and examination of drill core.

The Eagle granodiorite in this map area is intruded by a quartz monzonite stock. The quartz monzonite away from the altered zone contains 2% - 5% magnetite. Intruding both the Eagle and the quartz monzonite is an elliptical-shaped Pebble Breccia body about 7000 feet by 4000 feet.

The Pebble Breccia is composed of round to subangular fragments of Eagle granodiorite and quartz monzonite, with minor quartz porphyry and feldspar porphyry. Fragments typically range in size from a few millimeters to a few inches. In the south part of the breccia body, large blocks up to ten feet of Eagle granodiorite breccia are present. Similar Eagle breccia is present intermittently along the west boundary of the Pebble Breccia with the Eagle granodiorite and in drill holes 73-3, NC-73-6, NC-73-2 and NC-73-7.

Past diamond drilling in the Keystone claim area has been concentrated in and around the Pebble Breccia and is the main source of information about the breccia. Noranda Mines drilled six holes in the south part

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of the breccia. There is limited assay information on these holes and the Noranda logs are attached. The core was found in the field shortly before snowfall and was not logged. These cores are in a poor state at present and should be remarked, re-logged and assayed where necessary to determine the relationship between the Pebble Breccia and the country rock. The next significant drilling was done in 1973 by Denison Mines (DDH-1 to 4). Three of these holes were drilled adjacent to one breccia; the fourth, DDH-2 is the deepest penetration in the Pebble Breccia (500 feet) located roughly in the central part of the breccia. In 1973, Noranda Mines drilled seven short diamond drill holes in the Pebble Breccia and adjacent rocks. These penetrations provide information about the breccia in the overburden covered area in the main valley. The Noranda 1973 and the Denison drill holes have been logged and partly assayed by Western. The summary assays are discussed below.

The Pebble Breccia often is well layered by the lamination of sand-size fragments and more rarely by pebblesize fragments. This layering is believed to be fluidization at the time of breccia formation. This means that fragment transport has taken place and fragment rock-type have been mixed. However, some broad generalizations are evident from logging and assaying. More mineralized fragments are present in the north part of the Pebble Breccia. Drill hole NC-73-6 displays the most chaotic Pebble Breccia with most angular and

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abundant mineralized fragments than any other. Drill hole NC-73-6 and to a lesser degree NC-73-5 contain more quartzeye (feldspar) porphyry fragments than any other. Drill holes NC-73-5 and NC-73-6 contain the most Mo in the Keystone part of the system. On the basis of the presence of mineralized and altered rock fragments, the north part of the Pebble Breccia is believed to be an important lead to ore mineralization.

Eagle Pebble Breccia dykes cut Eagle granodiorite and foliated andesite dykes. Other dykes in the Eagle granodiorite are biotite (chlorite)-feldspar porphyry, rhyolite, hornblende diorite and andesite. Two occurrences of quartz-feldspar porphyry were noted in the area of Pebble Breccia but contacts were not observed.

ALTERATION

Pervasive chloritization of the mafic minerals in Eagle granodiorite and the Quartz monzonite forms an ellipsoidal-shaped outline peripheral to the Pebble Breccia body. Eagle breccia and some Eagle breccia blocks in the Pebble Breccia are pervasively chloritized. The Pebble Breccia is only pervasively chloritized on the south and eastern contact areas. At the north end of the Pebble Breccia, the breccia and the biotite in the adjacent Quartz monzonite is pervasively altered to sericite. Elsewhere sericite alteration of the Pebble Breccia is within pervasively chloritized Pebble Breccia. The interesting thing to note is that the pervasive sericite zone crosses the Pebble Breccia contact on the north end. It appears that the Pebble Breccia on its western and southern boundary has a rim of pervasive chlorite but is absent on its northern contact. Consideration should be given to a possible superimposed alteration event in the northern area of the Pebble Breccia which created pervasive sericite in Pebble Breccia and adjacent Quartz monzonite. <u>MINERALIZATION</u>

Molybdenum

There is no significant surface molybdenum mineralization in the Eagle granodiorite and Quartz monzonite. However the top part of DDH-3 contains brecciated felsic dyke and brecciated intrusive (possible Eagle granodiorite) with anomalous Mo up to 200 ppm. In addition, well MoS₂ mineralized fragments are evident in the north part of the Pebble Breccia. The Pebble Breccia drill core and the core from adjacent pre-mineral rocks have been partly geochemically assayed and summarized below.

AVERAGED ASSAYS

FROM KEYSTONE AREA DRILLING

PRE-MINERAL ROCKS

DRILL HOLE	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F mqq
73-1 (6)* (489)**	61	540	1	4675	760
73-4 (9) (486)	98	456	2	3005	745
NC-73-1 (2) (200)	22	240	1	3200	480
NC-73-2 (3) (197)	7	66	l	330	345
NC-73-7 (2) (200)	25	132	l	1395	425
73-3 17-107	87	508	24	2510	555
107-197	58	197	3	3480	530
222-307	77	1480	1	3900	600
307-407	94	1542	l	11490	945
407-(¹ +97)	104	857	1	6890	880

PEBBLE BRECCIA

73-2	(7)	(500)	136	325	10	2760	505
NC-73-3	(2)	(201)	25	215	14	1230	500
NC-73-4	(1)	(230)	26	187	12	1120	520
NC-73-5	(1)	(242)	24	97	30	1310	480
NC-73-6	(2)	(200)	18	340	20	1675	488

It is apparent that the Pebble Breccia contains the most Mo in the Keystone part of the system and the breccia past-Mo mineral in age. It is, however, mineralized with Pb and Zn.

<u>Manganese</u>

Highly anomalous manganese is present in the Quartz monzonite close to the contact with the Pebble Breccia, especially at the north end in the pervasive sericite alteration zone. All of drill hole 73-3 is highly anomalous and at depth is extremely anomalous with many 10 foot intervals assaying greater than 1% Mn. This is also associated with an increase in flourine content and an increase in the sercite alteration intensity. The managese content of the Pebble Breccia is variable but moderately anomalous especially in the deeper drill penetration in the central part of the breccia body. Elsewhere in the Eagle granodorite, and Quartz monzonite, manganese is restricted to narrow zones and structures.

<u>Flourine</u>

Flourine is moderately anomalous in the high manganese zone in Quartz monzonite adjacent to the Pebble Breccia and in the bottom of drill hole 73-3. This is the only area of anomalous flourine evident on all map sheets. Lead and Zinc

All rock types within the pervasive chlorite zone are moderate to highly anomalous for lead and zinc. Two mineralized vein systems are noteworthy. The Keystone vein is galena, sphalerite, pyrite rhodochrosite and quartz and appears to mineralize Quartz monzonite. No orientation of the vein has been mapped but underground workings have a northeast trend. It has been suggested that the high

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manganese in the quartz monzonite at the north end of the Pebble Breccia is related to the Keystone vein. This is unlikely because the distribution of high manganese does not parallel the apparent structure of the vein but more closely is associated with the outline of pervasive alteration. Samples 570 and 556 indicate the northern limit of anomalous manganese. The western limit is defined by unmineralized and unaltered quartz monzonite which was not assayed. These outcrops are approximately on strike with the apparent strike extension of the Keystone vein. This point is belaboured because it is important to the interpretation of the manganese mineralization and the alteration of the north end of the Pebble Breccia and adjacent quartz monzonite and how it might relate to mineralization covered by the late-mineral Pebble Breccia.

Adjacent to the western boundary of the Pebble Breccia is a zone of Pb-Zn veins and mineralized fractures. This area is reported to have 1 - 2 million tons of low grade Pb-Zn, referred to as the Julie Zone. The old trenches have been sloughed in by recent logging and geologic information is limited. It appears that mineralization in the Eagle granodiorite is composed of several narrow veins with some fracture-controlled mineralization. The zone apparently crosses the Pebble Breccia contact and mineralization in the Pebble Breccia is primarily vein stockwork. The general zone of mineralization trends northeast as exposed in early trenches and logging slash.

- 24 -

STRUCTURE

The foliation of the Eagle granodiorite is similar to the other map areas and is unaffected by the quartz monzonite stock or the Pebble Breccia. The dominant mineralized structural trend is northeast, as indicated in the Keystone and Julie Zones. This direction is also the orientation of Eagle breccia dykes and other smaller Pb-Zn veins in the Eagle granodiorite west of the Pebble Breccia.

Rhyolite and biotite (chlorite) feldspar porphyry dykes west of the Pebble Breccia trend north-south. East and north of the breccia, biotite-feldspar porphyry dykes trend northwest. Rhyolite dykes north of the Pebble Breccia trend north and northeast.

There does not appear to be a dominant structural trend in this area. This may be because the Pebble Breccia dominates the map area. A more regional geologic view may be useful with particular emphasis on orientation of dykes and mineralized structures.

The Pebble Breccia locally is layered by sorting of fragments by size. Fragments may change from sand size to pebble size from layer to layer. This is interpreted as a result of fluidization. It is best displayed near the northwest contact and in drill holes. At the northwest contact the layering is parallel to the contact and dips eastwards (inwards) $40^{\circ} - 45^{\circ}$.

- 25 -

This may reflect the attitude of the contact of the Pebble Breccia in this area. Thus the Pebble Breccia may have gentle inward quaquaversal dipping contacts to a central breccia core. Dip angles in vertical drill holes vary from $20^{\circ} - 45^{\circ}$.

SUMMARY AND RECOMMENDATIONS

The Keystone-Bonanza Lode map area is dominated by a late-mineral Pebble Breccia. The breccia contains wellmineralized fragments with fracture pyrite and MoS₂ and Quartz-MoS₂ veinlets. The geochemistry and distribution of these mineralized fragments suggests that the north part of the Pebble Breccia is the best MoS₂ mineralized portion of the Keystone sulphide system.

It is important to note that the pervasive sericite alteration zone is present in the contact rock only at the north end of the breccia. This area is also coincidentally mineralized with highly anomalous manganese and moderately anomalous flourine. It is interesting to note that the Keystone-Bonanza Lode area displays the poorest molybdenum mineralization of all three systems, but contains the most sericite alteration, pyrite, manganese, flourine, lead and zinc mineralization of all of the systems. This is not incompatible with a molybdenum porphyry system. It is recommended to drill two diamond holes in the north end of the Pebble Breccia to penetrate to pre-breccia rock. Hole 1 should be located 400 feet north of NC-73-5. Hole 2 should be 800 feet west from hole 1. Drilling should be NQ with casing left in hole for future deepening.

LY SUBMIT TH 17 M.Sc., ologist

APPENDIX

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ROVER AND KEYSTONE PROJECT CLAIMS

CLAIM NAME	NO. OF UNITS	RECORD NUMBER	RECORD DATE
ROVER	6	301	July 29, 1977
COVER	8	302	July 29, 1977
BURN	6	303	July 29, 1977
RED BOG	6	310	August 5, 1977
RIVER QUEEN #1	8	311	August 5, 1977
RIVER QUEEN #2	6	312	August 5, 1977
RIVER QUEEN #3	6	313	August 5, 1977
BONANZA LODE	8	314	August 5, 1977
BLUE GOLD	9	337	September 26, 1977
FALLS	9	338	September 26, 1977
COMSTOCK	1	339	September 26, 1977
RIDGE	6	340	September 26, 1977
KEYSTONE	6	341	September 26, 1977
MIDNITE	2	342	September 26, 1977

I, K. W. Livingstone, M.Sc., Geology, of 4317 West 12th Avenue, Vancouver B.C., V6P 2R9, state as follows:

That I graduated from Carelton University in 1966 with a Bachelor of Science in Honors Geology and, with Masters of Geology from University Of British Columbia in 1968.

That I have prospected and actively persued geology prior to my graduation and have practiced my profession since 1966.

That I am a member of the Canadian Institute Of Mining and Metallurgy and the Geological Association of Canada. That I am presently employed as a businessman and geologist with JMT Services Corp. 8827 Hudson Street, Vancouver B.C., V6P 4N1.

Dated at Vancouver, British Columbia this 13th day of June, 1978.

Livingstone

STATEMET OF EXPENDITURES

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ROVER PROJECT August 1, 1977 to June 1, 1978

PERSONNEL	Dates Worked		
K.W. Livingstone Geologist	August 12, to November 30, 16 days @ 175	\$2730	
J.S. Christie Geologist	August 26, 27, 2 days @ \$175	350	
G. Lauzon Assistant	August 12, to August 28, 4 days @ \$70	280	
L.W. Saleken Geologist	November 14, to November 30, 5 days @ \$125	625	3985
Food and Accommodations 30 man days @ \$15 per d	lay		450
Transportation Four Wheel drive Camper 20 days @ \$40.00 pd			800
Assay and Geochemical 200 rock & soil samples Cu, Pb, Zn, Mo, Ma, F, @ \$7.55	,		1510
Supplies			1310
Field Supplies, air phot	to etc,		150
Report Preparation K.W. Livingstone, 4 day	7S		
@ \$175 pd T. Kovacevic, draftsper	cson, 20 hrs.	700	
<pre>@ \$8.50 ph Printing & Reproduction</pre>		170 200	
rinting a reproduction			1070
	TOTAL	EXPENDITURE	\$7965

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STATEMENT OF EXPENDITURES

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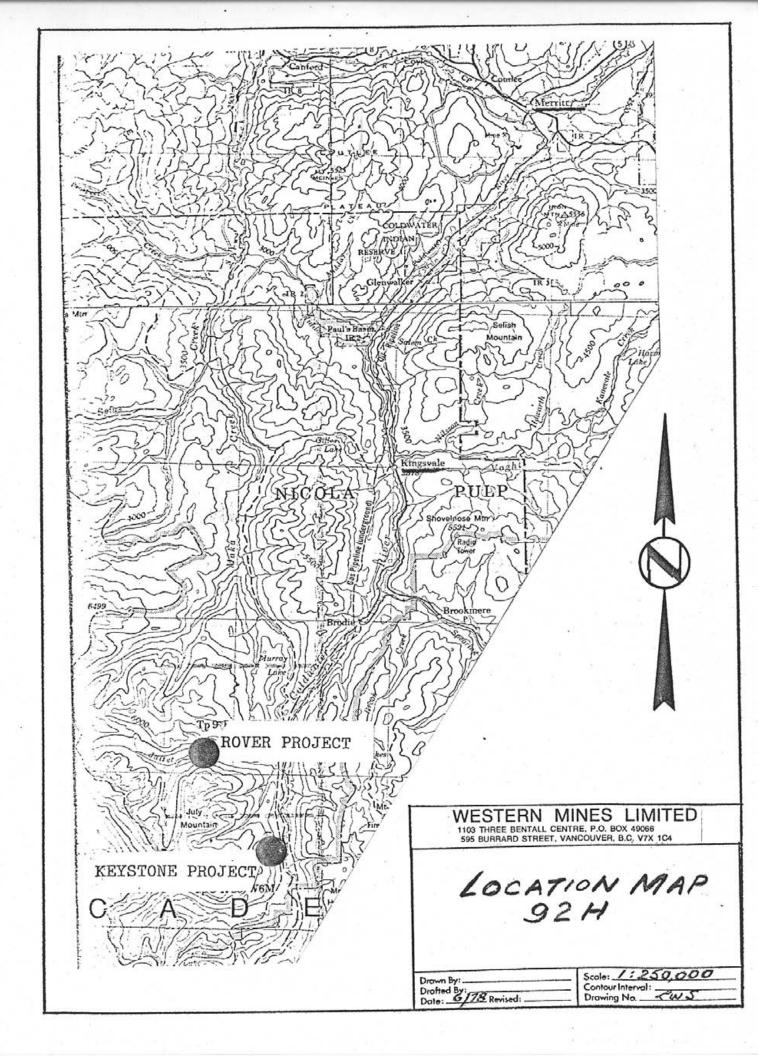
KEYSTONE -BLUE GOLD PROJECTS Sept 28, 1977 to June 1, 1978

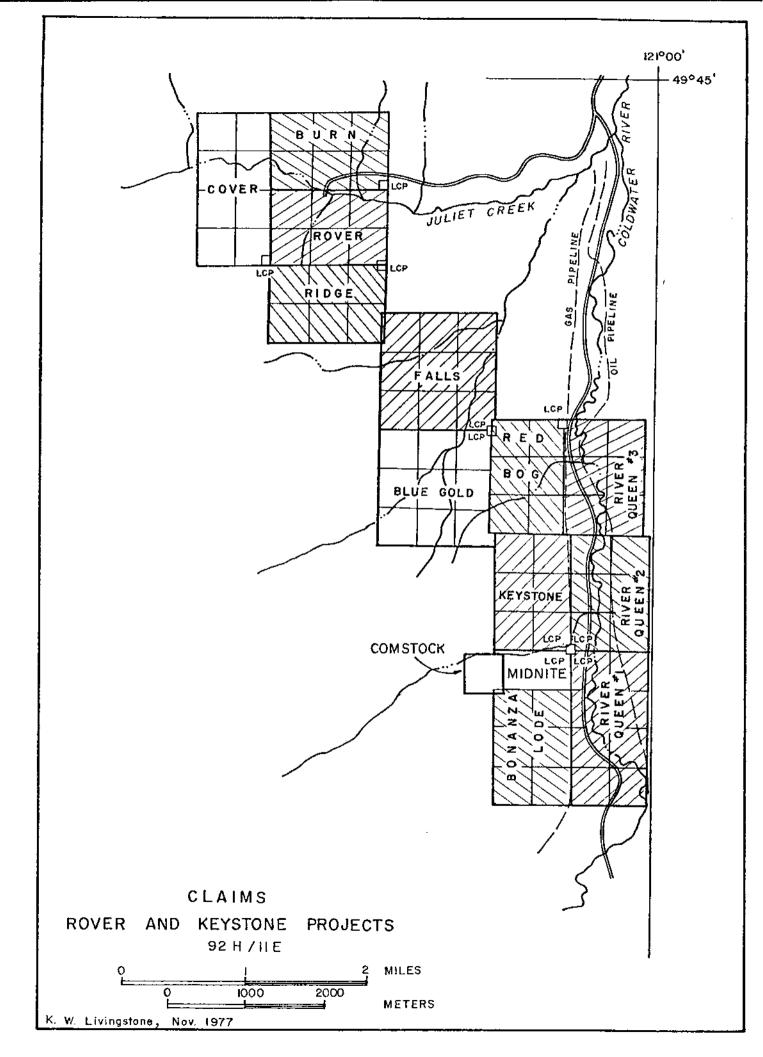
PERSONNEL	Dates Worked		
K.W. Livingstone	Sept 28, to Nov 30,	10070	
Geologist	22 days @ \$175 Per Day	\$3850	
G. Lauzon	Oct 4 to Oct 10,		
Assistant	5 days @ \$70	350	
L.W. Saleken	Oct 18, to Nov 30,		
Geologist	1 5 days @ \$125	1875	
G. Crooker	Oct 18 to Oct 28,		
Geologist	8 days @ \$100	800	
B.E. Spencer	Oct 18 to Oct 28,		
Senior Geologist	2 days @ 200	400	
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Food and Accommodations	54	750	
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e \$30 pa		.450	1330
Assay and Geochemical			1330
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Supplies			
Field Supplies, topofil	, Flagging etc.		150
Rentals H.E. Sanders Ltd. T.D.	25C Tractor		
from Oct 18, to Oct 24			
33 hrs. @ \$66 PHR		2178	
Hauling Charge		125	2,303
Report Preparation		-	
K.W. Livingstone, 4 days	\$ \$175	700	
T. Kovacevic, draftspers		170	
Printing And Reproduction		200	
		TOTAL EXPENDIT	1070 RE 14,885

ILLUSTRATIONS

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SAMPLE No.		DTAGE	SAMPLE	% Recovery		·	SULPHID	ANALYSIS	<u> </u>		 	T	ANALYSIS	GRAPHIC LOC
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Boxi	112													Eagle gransdiorite breccia dominently pervegive Chlorite of matic with myior servicite
									_		ļ	ļ		dominently pervesive
												<u> </u>		Chlorita 1st matric
		200		<u>.</u>		 					<u> </u>	<u> </u>	·	- wigh myior sericite
		EOH.							<u> </u>		 	<u> </u>	<u> </u>	ATBOTTOM
					[{ 	[<u> </u>	<u> </u>		143-183 andesite della
									[<u> </u>	
												┨		Calcite veinlets and
	· <u></u> ·	+							1					local Engle briccie
									ļ				<u> </u>	- well agree and the
			1				<u> </u>		 			<u> </u>	╏┈╷╶╍┨╾┅	183-700 breceicted Eagle
		<u> </u>					 							Dervosive sericito
								<u> </u>						and minor chlorito
			1		<u> </u>	<u> </u>	{		[+		·}-=·	<u> </u>	
												1		
			_	 		+		<u> </u>		1		1		
							[<u> </u>	[
		·	-		 									
				<u></u>			<u> </u>			·†	+	1		

Q. M.C - 2	N.C-2 ole No. <u>//:73-2</u> Page No. <u>/</u> roperty <u>KEY STONE</u> Length											-		RECORD	
Property	KEYM	L Page NU.L ASE	 4	enath					t s	at.				DIHTYDE VERTICAL	
	<u> </u>			-					Di	ip				Drill-Type VERTICAL Hole Size SQ Contractor DORATIDIA Logged by	,
	ced								_ El	ev				Contractor Logged by	:
	ed													Approved by Date	
SAMPLE No.	FOO	TAGE	SAMPLE	%			SULPHIDE	ANALYSIS	;			OXIDE /	ANALYSIS		-
No.	FROM	TO	LENGTH	Recovery	Au	Ag	Ĉu	РЪ	Zn	Mo**	Cu	Mo		RUCK DESCRIPTION AND RUTES FOOTAGE ROCK	- .
Box 1	125										 		. 	Mainto proportal Fools	_
12X	105	- <u>-</u>	1									<u> </u>		mandiorite with no 1-2% fresh	- DY
]									perv. Sericitization of the matics - loc. pupu. chl.	_/
		202								<u> </u>				matics - loc. pupul. chl.	_
		EOH								<u> </u>	 				-
										L				125-132 breacinted guest2	
											. .	 		prokysy dyke Dwith brokon feldspars milior dessen, py < 5%	_
<u></u> .										ļ				prokon feldspors	
		-		·	<u> </u>									millor dessen. py < 5/6	
		<u></u>							· · ·		<u> </u>			150-155 QUANTS DAVORING	_
<u></u>			-{											150-155 guartz porphyring :	
		 												155-202 EOH Eagle broken	
					 					ļ.	ļ	1			<u> </u>
		-	<u> </u>									 		trugments 4 -1 but	_
		1	<u> </u>	 						<u> </u>				mainly 1-2"	_
			_				<u> </u>				 				—
		-							<u> </u>	<u> </u>					<u> </u>
											1		<u> </u> -		
·	-			+	1							<u> </u>	<u> </u>		
											+		-		_
	1	1		!		I	<u> </u>	L	L	!	1				

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District	Hole No. NC-73-3 Page No. Length Property KEYSTO.NE Length District District Bearing Dip Commenced Dip Dip					_ La _ D _ El	at ip ev							
Completed	ـــــــــــــــــــــــــــــــــــــ	u	 ,											Approved by Date
SAMPLE No.			SAMPLE	% Recovery		r ———	SULPHIDE	·				 	ANALYSIS	ROCK DESCRIPTION AND NOTES
	FROM	07			Au	Ag) Cu	<u>Pb</u>	Zn	Mo**	Cu	Mo		
×						ļ	1							
2					 									Pebble breccia
						 	_							
<u> </u>		200.9										┨───		laura an initia
								ļ		 				Tupting prominent in
		 				 -	 -							TOP 10-15 BUT PREENT
	<u>.</u>					 	<u> </u>							layering prominent in top 10-15' but present througsut Core angles measured 16, 29, 31°, 30 Pebbles up to "2"
				<u>-</u>		<u></u>		<u> </u>						(Dre majes mensioned 16, 27, 51, 50
				<u> </u>	<u> </u>									Pill + 1
					¦]				<u> </u>	Teolos up u 2
	_										<u> </u>			
		ļ			[<u> </u>				Fragmant types:
		ļ				<u> </u> 	 				ļ			
		 				<u>.</u>			[<u> </u>			 	() peru. Ser. Engle Managion (e
						 				ļ	<u> </u>			(2) leucscritic grumitoid (972 mon 2.
					ļ					 	<u> </u>	·		silicified and primaralized
				 		<u> </u>	 	[ļ			silicified and primaralized
			<u> </u>			 		<u> </u>		ļ	<u> </u>	<u> </u>		
-	<u></u>				 		 		ļ		.	<u> </u>	<u> </u>	Eagle fragment's tend to be larger Minor scattered pink aplite frag.
				ĺ			ŀ	1			}	1		Minor scattered pink calito free

 \sim

Hole No.∠ Property	UC:73-4 KEYSTO	_ Page No/ UE	/ Le	angth					_ La					8.41
Commence	ed			p										
	F00	TAGE	1				SULPHIDE	ANALYSIS				DXIDE A	INALYSIS	GRAPHIC LOG
SAM9LE No.	FRDM	TO	LENGTR	% Recovery	Au	Ag	Cu	P۵	Zn	Mos	Cu	Mo		ROCK DESCRIPTION AND NOTES FOOTAGE TYP
-/	161													
-/	141			· · ·										manly time manuel (ug to 1000)
-3		230							<u> </u>					while bracking will bred
->		0.02												Scatting fragments up
														b 7/1
												+		10 14
														true mate ASA Fools ed
											i			The sillering
			<u> </u>									1	<u></u> +	granitoid with distances
				<u> </u>										And for ab a this
	<u> </u>	!					 		<u> </u>					Jana The 4/2-11/032
					L					<u> </u>				Vennets.
				ļ		ļ		 	ļ	ļ	<u> </u>	ļ	 +	
		<u> </u>		ļ		ļ				 	 			local tone much courser
]									_	bolcia 175-210.
					·	ļ				. 				
									-					Layerine Rore angles
					-									
·		1										1		medoured 30 40 31 32
				1		1	1				1			
		+	-{			+	·			-+	1			
		·		<u> </u>			<u>+ ···</u> ·		·		+		t t	

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.M.C-2									C	RIL	L SA	MPL	E REC	ORD	[]		
Hole No.	16-73-5 FEYSTON	Page No.	Le	ngth					Lat						VERTICAL Drill Type Hole Size		
District_ Commen	nced		_ Be _ Di	earing p					Dip Ele						Contractor Logged by Contractor Approved by	Date	}
Complete	ed		-					AKALYSIS				OXIDE AN	ALYSIS		ROCK DESCRIPTION AND NOTES		SRAPHIC LO
AMPLE No.	F003 \$80M	TAGE TO	SAMPLE LENGTH	95 Reconery	Asu .	Ag	Cu	9b	Zn	Maps≇	Cu	Mo					
	174		- 	 								┝────┼ ┞────┤			Tabole braccia		
	1/4	· · · · · · · · · · · · · · · · · · ·	 												Tepple proces		
<u> </u>		242	_	ļ											trugments - 30% high		
	_			 _											nit mary Mosz		
						- 	 			ļ					mineralized frequents		+
	-					 	 			 					- minor at porphyring		
	(smi	nents:				 		 		<u> </u>	_				-minor pure sulphide		
<u> </u>	4	The	X N. 12	ne	m	ten.	E	p 7	he	L.	re				fragmente (up to 1 cm)		
	ic hat		1	ノン	4	ert	by		Ha	tt-	u Vi	in-			9tz mon conite with		
	p part	eved 1	1	6	1200		1	An	+	no	1			{	two stages of gtz- pyrile		
)	the the	pebb	? <u>/</u>					-	1		<u>}</u>				perilet ot		
0	forna	The-					-								layering with core adquist. 182, 20, 20		
								-							Ropplist 182, W		

	VC-73-6 KE/STO			engih	1	200.	6		_ Li	at					Drill Type			-
Commence	ed			earing P						ip lev					Hole Size Logged by Contractor Logged by NOP AND Approved by			_
SAMPLE	F001	AGE	SAMPLE	%			SULPHIDE	ANALYSIS	1			OXIDE A	NALYSIS		ROCK DESCRIPTION AND NOTES		CRAPHI	
SAMPLE Xo.	FROM	TO	LENGTH	Recovery	Au	Ag	Cu	Pb	Zn	No*2	Cu	Mo .					FOOTAGE	ro Ty
		<u></u>													98-103 dille or flow.			
1	<u> </u>														48-103 difle or flow		+	
															in unalizant Fact. 2 d.			
4		200.6													- Sim To dillas in			
-{										1					sther holis			
						-									propably post Minoral.			
										-								
				-				-		-				-	103-183 peptele bracia	1	1-1	
										 				, 	with subing. fragmente	/Kal	154	Į-
A	1 and	- 1	ļ.,,						-	<u> </u>	<u> </u>	·			70% Engle 25% silicifud	-MnOz	1	24
/VIIII	unts.	1.	1.	-/		Vi.			1						grandaiorite Minorielized			
	A	MK_P	pµ	- Kil	2,	flų	· . /	<u>ny</u>	1	<u>p</u> n	<u>2M[[</u>	K-		/	fragments 5-10% feldsper-	[
¥µ	MANNY	red f	alf.	hepr.	15	free	en-	4N	-0,	fiê	<u>∤</u> '	101	UL	Z+	bio (sericite) perphysing	<u> </u>		
Me	h	MARM		<u>}</u> }──	22		ar	h.		-		n /1			and minior quarte parphysig		+	
VAISO .		n and	K-1	¥	774		1	Øky	17			R	\sim	/	fragmint's	+	+	
pdc-	topi	trogn	ely	t j	100	tt	Þ	F-1	WE	1.	17	VIA	mt		1	1		
Oi-1	ic D	entral	¥	CAA.	W.		1-2	11	14		n				Kallering is in conspicuous compart	4		
SIR	-p-ye	nenell	VIA.	4	fel	7			111	¶	9774				which athan hiles in pepple b	VICEIA	in	Z
Nel.	× 1/ 1	, No	X6L	- /	YEC	СU							- :	6	someto mas angillin an	I CAN	Kin'	1 /

Commence	1 673-6_ 1 6845702 ed		Le Be Di	aring					. D	ip				Hole Size Contractor Logged by
Complete	d													Approved by Date
.MPLE No.	FOOTA	GE	SAMPLE LENGTH	% Recovery	Au	År	SULPHICE Cu	ANALYSIS	Zn	Mo**	Cu	DXIDE A	NALYSIS	ROCK DESCRIPTION AND NOTES FOOTAGE RO
				·										
														183-199 mainly Engle 3.d. breceia with pennisive Sericite and minor
														huge in the
														Bracila witch permisipe
														Sericite and minor
														peru. ch/.
														199-200 pepble breecia
							ļ				[
							·]		The presence of Eagle
										<u> </u>		<u> </u>		
										<u> </u>				Breccia may Signity
	[epproaching the base of
						<u></u>				ļ	ļ	ļ		the formation of the plant of t
					·				<u></u>	. 				The breecie bader in this
<u> </u>		<u> </u>												area. Compare with
						ļ				ļ	 	<u> </u>		
										<u> </u>	ļ			noranda logs of holes in the south part of the
														in the court of the
			_ '		[nine southing
		<u> </u>												septle briccia body

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	- 12 / 21	Page No.	Le	englin			······		Li	at io				Hole Size BD	
Commence	ed		Di	εαιττι <u>y</u>					_ E	iev				Hole SizeBOCANDHLogged byDate	
SAMPLE	FOO	TAGE	SAMPLE				SULPHIDE	ANALYSI	3			OXIDE	ANALYSIS	RDCK DESCRIPTION AND NOTES	APH I
Хо.	FROM	TO	LENGIH	Recovery	Au	Ag	Cu	• P b	Zn	Mo rd	Cu	Ma		FDOT	ACE
BOXZ	137													Engle granodiorite	
<u> </u>		200					· · · ·							Sericitized matrice	
T		200	-		<u> </u>									1-2% Dr dissem	
- · · ·															
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ROVER AND KEYSTONE GEOCHEMICAL RESULTS

BONDAR-CLEGG & COMPANY LTD.

Report No. 27 - 1574 Geochemical Lab Report

Page No. _____ 2

SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm	P Ppm	REMARKS
к 31	160	340	1	4000	580	73.3 /67
32	15	85	< 1	770	-	-177
33	13	143	< 1	790	-	- 187
34	18	180	< 1	1820	450	-197
35	61	139	1	1830	-	- 222-227
36	87	330	< 1	2600	L	-235.5
37	86	860	< 1	3450	520	247-257
38	73	640	< 1	3400	-	- 267
39	79	6400	< 1	4500	-	- 277
40	65	770	< 1	5800	680	- 287
41	88	1200	< 1	5700	-	297-307
42	126	8100	1	5800		-317
43	188	5550	2	16400	850	-327
44	44	245	< 1	11200		-337
45	22	55	< 1	10000	-	-347
. 46	45	245	< 1	11800	1025	-357
47	39	28	< 1	7400		-367
48	43	99	< 1	10600	-	-377
49	250	315	< 1	11100	950	-387
50	100	350	< 1	25000	-	-397
51	78	430	< 1	5600	950	-907 417 -427
	63	330	< 1	4950		417
53	72	1350	< 1	6200		-427
54	82	525	< 1	6400	910	-437
55	60	890	< 1	6400	-	-447
56	92	850	< 1	4850	-	- 457
57	81	720	< 1	6000	910	-467
58	163	1200	2	9900	-	2477
59	250	1150	< 1	11000	-	-487
60	80	695	< 1	6300	820	-497
61	16	164	< 1	2200	540	NE-73-1 128-138
	28	315	< 1	4200	420	182-Fi2
63	25	200	12	1250	500	NC-73-3 128-138
64	24	230	15	1210	500	163-178
65	6	100	< 1	270	330	NC-73-3 128-138 163-178 NC73-2 125-128
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Э. EGG & ١X INDAR-(ЛF Δſ TL CI Ł

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

F; Basic Fusion Extraction <u>Pb,Zn,Mo,Mn; Hot Aqua Regia</u> Report No. <u>27 - 1574</u> F; Specific Ion

Method Pb, Zn, Mo, Mn; Atomic Absorption

From _____JMT Services

December 22, 1977

675

Fraction Used

_ Date _____

SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F ppm	ļ		REMARKS
KC 1	50	445	2	3900	755			73-1 22-32
2	17	65	1	325	680			73-1 22-32' 73-1 203-273'
3	60	1000	< 1	6450	755	<u> </u>		73-1 328-338
4	200	1550	< 1	16000	910			73-1 378-388
5	7	64	< 1	390	770			73-1 428-438
6	31	108	< 1	1000	690		-	73-1 478-488
7	7	184	< 1	1460	730		 	73-4 468-478
8	6	170	< 1	2000	755		 	73-4 418-428
9	22	223	< 1	3000	730			73-4 368-378
10	460	620	< 1	2000	730		-	73-4 318-328
11	12	700	8	4350	755			73-4 273-283
12	123	1160	1	8900	820		 	73-4 218-228
12	8	360	5	1290	750		<u> </u>	73-9 168-178
13	63	85	< 1	1660	750			73-9 118-128
15	178	605	<1	2400	· 700			73-4 68-78
· · · · · · · · · · · · · · · · · · ·			1				<u>↓</u>	73-3 7-17
16	44	310		1230	580	<u>+</u>		17-27
17	<u>19</u> 152	<u>124</u> 525	5	<u>810</u> 2100	-		<u>}</u>	-37
19	400	2400	2	11400	580	1		-47
20	29	210	< 1	1620	-		·	-57
21	79	870	19	2000	-		}	-67
22	54	300	200	1230	540	<u> </u>		-77
23	28	112	4	1420	-			-87
23	42	89	1	1880				-97
		142		1430	520			-107
25	18	1	< 1	+	+			-117
26	66	190		3550	<u> -</u> 		· · · · · · ·	- 12.7
27	97	310	< 1	5900 aboo	-			-127
28	115	300	5	8800	560			-137 -147 -157 -157
29	28	125	7	3700				-157
30	10	97	7	2000	<u> </u>		+	other
	1	1	<u> </u>		<u> </u>	<u> </u>		1

BONDAR CLEGG & COMPANY LTD.

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Report No. 27 - 1574 Geochemical Lab Report

3_____ Page No.-

SAM	LE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm	ppm			REM	ARKS
ĸ	66	10	57	< 1	370	370			NC-73-2	153-163
	67	6	40	< 1	340	330				188-196
	68	26	187	12	1120	520			NE-13-4	178-188
	69	27	120	1	1700	400			MC-73-7	160-170
	70	23	145	< 1	1090	450				181-191
-	71	24	97.		1310	480			NC:73-5	218-228
	72	24	400	22	1750	495			NR-73-6	128-138 148-158
	73	12	280	17	1600	480			72-7-	198-158
	74	6	250	16	1920	480			Ale 15 2	88.98
	75	28	60	22	2900	480				138-148
	76	400	540	8	5200	450				208-248 258-268
	77	170	380	5	2900	535				258-268
	78	260	425	11	2850	575				308-318
	79	26	380	_16	2100	495			·	358-318
	80	62	240	11	1460	515				478-188
WC77 -	900	10	42	3	340	800	5 ()	1.17	KOVER	
	901	235	48	32	140	355	97-1		· · · ·	
	903A	12	50	13	250	515	\		road cuts	_
	903B	9	5	1	110	400				<u> </u>
	903C	4	69	4	260	.460	$\langle Y \rangle$	•	m	
	904	16	12	2	100	350	C F	1.1 <u>.1</u> .1.16	ren	
	905	4	74	4	400	495	BISHER	2010-	1 cic	
	906	88	87	28	620	495	121532		035"1	
	907	6	94	15	310	670	C: 200			
	908	7	91	9	240	750	i		alling	
·····	909	5	108	17	390	600	łi		all your	
	910	34	184	< 1	370	360		-	1 *	Fer.
ĸ	68A		-	21	440	880		<u> </u>	n'l	· · · · · · · · · · · · · · · · · · ·
	71A	-		12	420	880		l Mi	pepples	<u> </u>
	72A	-	-	49	620	755			peppers	
	73A	•	_	16	720	820)	, , , , , , , , , , , , , , , , , , ,	
								 	cc Mr. W.	Livingstone
							<u> </u>			
				·	1			_		
										· · ·

E	30N0	DAF	R-CL	EG	G&	COMF	ANY LTD.
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		Go	ocho	mical	Lah	Report	SB1 TELEX: 04:54554
		<u>u</u> c		mca	Lab	nopore	
Extraction Hot						<u>27 - 949</u>	· · · ·
Method <u>Atomic</u>						JMT Servi	
Fraction Used			<u> </u>		Date	· · · · · · · · · · · · · · · · · · ·	August 22, 19_7
SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm			REMARKS
GL-77 1	2	24	< 1	225			<u>A</u>
3	3	40	< 1	540			
4	4	60	< 1	780			
5	4	54	< 1	740			
5B	8	63	< 1	925			
6	2	60	< 1	625			V
7	3	30	< 1	1600			U U
8	10	100	2	765			Q
9	21	110	4	980			
10	35	140	2	2400			107
11	16	88	2	625			du
12	44	75	1	565			u v
13	16	60	< 1	760			
14	13	36	1	630			212
15	2	30	2	210			TA.
15B	2	10	< 1	195			V
16	3	66	< 1	85			Sol
16C	11	28	1	885			
16B	3	28	< 1	400			R
17	< 2	36	< 1	225			Feco
18	3	36	< 1	290			Ŭ,
19	2	44	< 1	560			,
19B	NS	NS	NS	NS			
20	2	38	< 1	170			
21	5	64	2	295			
22	3	48	< 1	440			Y
<u>WL-77 149</u>	.16	120	25	680			SILT
				;			

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BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction	Hot	Aqua	Regia

Report No. 27 - 1083

Method Atomic Absorption

From JMT Services

Fraction Used

:

Date_____ Aug. 31, 19_77

			. <u>.</u>					
SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm				REMARKS
77C 501	6	70	6	440			PUE	l
506	6	56	2	570		0		- F7
512	146	80	4	750		4	S FE,	STONE
513	32	49	1	580			(BL	VE GOLD)
515	5	41	1	510			\$10	.75
						- x		
						÷.,		· · · · · · · · · · · · · · · · · · ·
								· · · · · · · · · · · · · · · · · · ·
								*** **********************************
								cc Mr. K. W. Livingst
								·····
		,						
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				ì				
				ì				
								······································
					——— 			· · · · · · · · · · · · · · · · · · ·
			<u></u>	<u> </u>				

and the second
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

F, Basic Fusion; Extraction Cu. Po. Zn. Ho. Mu., Hoz Aqua Regin: F. Spec. fic Ion;

PROJECT: 'a'

Method Cu. Pb. Za. Mo. Ma. Atomic Absorption: From JMT Services

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LTD.

-CLEGG & CUMPANY

raction	Used					Date	September 9, 19 77
SA	MPLE NO.	Çu ppm	P) p)n	Zappa	Mo pp:a	Ма рра	REMARKS
17 <u>C</u>	513	154	9		36	760	SILT BLUE GOL
	519	60	4	<u> </u>	16	395	J. ig
·	520	63	10		10	710	. 4 11
	521	20	5		1	510	p ti
73	509	15	8	-	1.	565	o ji
	510	13	6	-	1	495	ly 11
	511	22	12		3	600	l) n
	512	74	7	-	15	1100	h sy
1177	235	93	18	-	4	1000	Ā
	237	24	8	*	3	910	
	240	23	13	-	1	700	
	241	17	10	-	2	1200	<u>ц</u>
	242	42	6	-	3	665	N. N
•	243	23	7		3	515	Ž
·. - f - ···	244	15	7	-	2	215	
<u> </u>	245	24	10	•	2	260	X
	248	31	10	•	2	615 .	40
	247	15	8	, a	2	505	1 I V [÷]
	243	23	10	-	2	760	5 %
	249	20	9		2	720	The last of the la
	250	30	9	+	3	2550	Solution States
	251	13	6	•	1	340	2172
	252	20	5	•	1	300	
	253	16	6	•	2	335	
	254	4	3	-	2	435	Ž.
	255	22	6	•	1	493	4
	236	18	5	44	2	312	
	257	17	4	•	31	230	2 2
	2.53	20	3	•	3	285	0 18
	259	35	10	•	2	280	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

DAR-CLEGG & COMPANY LTD ງ.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

F. Basic Fusion;	
Extraction Cu. Po, Zn. Mo, Ma, Hot Aqua Regia:	
F, Spec.fic Iou;	
Method Cu. Pb. Zn. Mo. Mn. Atomic Absorption:	

А

______ Report No. _____ 27 - 1137 PEDJECT: '8'

From JMI Services

Fraction Used _____ Date ____ Date ____ 19 77

		Cu	Pb	Zn	Xo	916Q	[]	REMARKS
SA	MPLE NO.	င်းရာ	P) ppn	Zp=	yo pon	ho boa		
<u>77¢</u>	513	164	9	-	36	760		SILT BLUE GOLD
	519	60	4		16	395		i, łg
		63	10		10	710		⁵ 1?
	521	20	5		1	510		t+ l1
778	509	15	8	-	1	565		s) <u>j</u> j
	510	13	6	· •	1	495		by 13
	511	22	12	1 - E	3	600		t) n
	512	74	7	ł	15	1100		h V3
31.77	235	93	18	+	4	1000		A
	237	24	8	-	3	910		
	240	23	13	-	1	700		
	241	17	10	-	2	1200		
	242	42	6	-	3	665		-
	243	28	7	-	3	515		N N
	244	15	7	*	2	215		
··	245	24	10	+	2	260		No. X
	245	31	10	-	2	615		50
	247	15	8	1	2	505		
<u></u>	248	23	10	. t	2	760		S K
	249	20	9		2	720		The way
	250	30	9		3	2350		
	251	18	6	· · ·	1	340		212
	252	20	5	•	1	300		
; <u>_</u>	253	16	6		2			
· · · · · · · ·				-		335		4
	234	4	3	•	2	435		
	255	22	6		1	495		
· · · · · ·	256	13	5	-	2	312		\ <u>S</u>
	257	17	4		3	230		2 22
	253	20	8	~	3	235		
.	259	35	10	**	2	280		RECON Serve Serve
	nu ·r·					L		22 R

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Report No. <u>27 - 1137</u>

Geochemical Lab Report

Page No. ____2

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F PPm		REMARKS
<u>1177 260</u>	65	10		15	920			-
261	18	5		5	120	-		
262	24	5	-	4	120	-		
263	29	4		8	150	-		
264	102	.6		25	320			
265	20	6	1	7	590	-		
265	11	6	_	3	225	-		S
267	25	10	-	3	750	-		20 m
268		8		2	1300	-		14
269	17	6		1	760	••	•	N 9
270	16	7		2	1100	-		202
271	10	7	-	1	210	-		2015
272	16	7		1	450	-		20
273	12	7	-	1	1100	-		22
274	14	6	_	1	170	-		8
275	16	6	_	1	650_	_		8
276	9	5	-	1	170	_		
277	12	7			220	1		
278	12	7	[]	 1	220 720			V
54 Rocks	-			1		7530	A	BRECCIA TS
			46		110	590		N IS
<u> 55</u> 56			<u>11</u> 16	<u>22</u> 8	15	<u>590</u>		qtz vein
· · · · · · · · · · · · · · · · · · ·	-				190	-6301	 	
<u>57</u> 58	-	5	41 74	166_		1 A 11 A 11 A 11 A		BRECEIA B
نــــــــــــــــــــــــــــــــــــ	-	10		34	245 360-	-810		
183 A	-	20	100	14		<u>550</u>		fract oy & q2\$ frage.
183B		10	<u> </u>	4	100	290		pink qtz & front py le
183C		4	2	8	35	180		ghz rem ser. in vugs
		5	56	39	470-	510-		gozven in ser. q.d. freg.
184B	-	6	8	102-	50	300.		poxidized ght frag.
184C	-	9	35	27	590-			& oxided gtz rein
1840	l	6	72		512-	- 570	2	Briccia C fragment
185	-	13	57	92-	1120	- 550_	K	leached per ser. Broccia Breccia & matrix
187		6	58	20	215	530	 	Breccia & matrix
1884		9	45	21	195	680		Bruccia c frag in Brecc fract. oxides
188B	l	3_		4	301	470	<u> </u>	fract. oxides
	i - 1		.	1 1	- 1		4	

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Report No.27 - 1137 Geochemical Lab Report

3 Page No.

				<u> </u>	r. <u></u>	,		· · · · · · · · · · · · · · · · · · ·
SAMPLE NO.	Cu ppm	Pb ppm	2n ppm	Mo ppm	Mn ppm	ppm_		REMARKS
WL77 189		100	137	130	11	900		peru. Ser. dussem py 5% mineralized fragment Broccia
223	-	40	50	76	205	970	<u>.</u>	mineralized fragment Broccia
225		10	64	124	175	680		y! h
226	-	6	68	59	175	590		t) Y
227	-	7	15	7	340	530		BRECCIA ZEA
229		3	14	7	215	460	<u> </u>	*1
230	-	4	32	30	240	-470	Ň	A
232	_	7	63	6	415_	760-	- AS-	porachia bio-hb ghzdior. BRECCIA X ghz diorate porv. chl.
238	-	4	13	17	390		<u> </u>	BRECCIA #
77C 500	-	11	6 6	7	450-	- 530	<u>.</u>	gtz diorite porv. chl.
-l- 502	-	7	56	1	590	470		. 93
503	-	5	50	1	535	- 530		v)
505	-	7	62	1	=580-	430	Ĺ	Eggle g.d.
507		6	10	39	175 .	290	4	reconn. Falls claim
508A	-	6	40	250	175	320	-	
508B	_	5	32	280	170	320		Ja pours. 11.
509	_	6	26	62	145	310	67	for the plant of the
510		4	32	-980	265	320	N.S.	
511	_	3	46	75	300 -	360)	in orea
514	-	3	52	5	310	370	V	IN D
516	·	4	52	3	470	340		reconn. Falls claim
517	-	2	20	3	180	220		n cc W. Livingstone
£								<u>_</u>
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				<u> </u>				·····
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EGG & COMPANY I JE AF Ξl 1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54 (aver Geochemical Lab Report F; Basic Fusion 27 - 1001 Cu, Pb, Zn, Mo, Mn; Hot Aqua Regia Report No.____ Extraction_ W; Specific Ion Cu, Pb, Zn, Mo, Mn; Atomic Absorption JMT Services From Method <u>August 31, 1977</u> Fraction Used _ Date Cu РЬ Zn Мо REMARKS SAMPLE NO. Mn F ppm ppm ppm ppm ppm ppm ŝi li 198 lover -790 WL77 540 -128 3 -•} 200 270 74 8 480 -205 60 86 615 ħ 6 ---_ 216 33 **.** 75 2 560 h η í 217 46 68 9 535 . ħ 218 40 10 440 52 Ħ 219 31 62 6 725 540 - 530hact 380-140 Rocks 3 133 -OX. broct 300-385 Eade 141A 316~ -360: 370 ... atz vein 760k-span-ser. - 690-141B 210-**300** 115 -· " 'n 141C 109 196 26 320 188 -_____ " gtzvein gtz-ser. 5er 750 16 85 142 -48-60 35 25rockchip atzyeins fract 1 143B 120 20 475 141 29float Breccia B 610-178 80 145 14<u>3</u>C froot chl-py 213 144C16 84 20 210 ... -py with ser. envel. a atz. -270 13 168 145A 9 73 envel. alt. ser. -> chi 6 207 145B -36 -11 210 U}

1-2" at vein no selvage al 1450 120 16 39 125 77 •• Q gtz vein 150 70 104 ser. anyelopes 146 13 33 -300 fract py (ser. ->chl envi 147 -8 64 10 77 9tz-py-ch! (ser.) 148 8 275-89 85 12 -Garris Car conve 500 81 150 7 76 15 _ rhys. dyke 171 151 16 30 2 380 Breccia B _pen.chl. 240 198 70 16 152 7 -Breccia B float 363 -630 22_ 40 70 153 _ pens. ser. lea Briccia 8 352 405 96 5 154 _ 14 Speccia B frag. 52 33 338 9 170 155 ---Precia C frag. in Braccia `405 6 119 11 195 156 ** 157-1 _ 6 33 835 105 269 157-2 10 40 .95-90 430 -97

BONDAP-CLEGG & COMPANY LTD.

Report No. 27 - 1001

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Geochemical Lab Report

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F	'age	No.	 2

Report No. — 27	~ 1001	-					Pag	ge No2
	. <u></u>	- -	······································		<u> </u>		<u></u>	V NO.
SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F ppm		REMARKS
WL77 157-3	-	5	66	11.5	150	153	1	Je off our
Sod Duplicate 157-3		10	62	110	_150	145		part of fire of
157-4	-	7	46	35	135	110		nos in h
157~5	-	11	32	130	90	124		KINT K. W.
157-6		13	88	75	80	156		JA 6 NY
157-7	- '	10	280	140	40	123		print of 19
157-8		11	62	. 280	90	170		4 y p p y
157-9	-	10	94	140	45	110		a frank frank
157-11	-	6	56	12	240	320-		S MP
157-13	<u> </u>	13	86	170	75	180		Mr W
157-16		12	^{**} • 78	19	50	135		· · · · · · · · · · · · · · · · · · ·
157-18		11	30	9 r	85	215		<u> </u>
158	-	4	96	31	_285	_370-		<u> </u>
159A	-	-47	39	310	230	450	A	2" onvol. 8x->Chil. 92Ver
159B		5	136	130	305	260		gtz-py-chil
1590	-		51	21	110	210		pink qtz¢ frag. m Bra
160A	[<u> </u>	- 32	15	470	15	75		6" aprivein
<u>160B</u>		11	2.8	39	300	400 -		ghz rems
		10	31	22	410	420		perv. chl. Eagleq.d. qt2 perv. ser. Breccia B
161A	-	14	12	475	105	375		perv. ser. Breceia B
161B		18	20	22	3.70 .	550		B R
163B	-	7	69	76	205	570		10' chip sample " pon. ser. Eagle in Braecia boite feldsport & dyke
163C		12	29	54	360	490		porv. ser. Eagle in Breetia
164		7	75	11	235	850-		boite feldspar & dyke
165	-	6	28	81	100	295	1	Braccia B
Sod Duplicate		5	53	12	215	600 -		n
168A	-	13	35	21	100	665	Ŵ	Greccia & perv. ser. frag.
168B		16	16	18	80	_450-	201	Breccia & perv. scr. frag Breccia & gtzvein frag. gtzvein-k-spar scr.
169A	-	2	2	5	15	105	N	gtzvin-k-spor ser.
169B	-	4	42	11	190	455-	!'	graveing leached
170		13	46	15	245	820		Breccia B
171	=	7	40	4	220	290		Eagle gtz-pep-ser "fract chl-py
		2	64	4	-290-	420	<u> </u> '	" fract chl-py
175		10	26	• 13	245	400-	i'	gtz veins
176		4	44	3	270	410.	<u> </u>	giz-ser. thim ser. Onv.
<u>.</u>				iÌ	 	L	<u>ا ا</u>	
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BONDAF CLEGG & CON PANY LTD.

Report No. 27 - 1001

Geochemical Lab Report

Page No. _____3

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F ppm	REMARKS
WL77 177		4	55	1	300	240	Fract cht-pen
178		5	54	1	275	200	9tz-chl-per
179	_	2	76	2	235	235	fract cy-chl
180A		15	78	5	-320	720	perv. ser. edj. to 9/200
180B	-	10	13	4	55	230	920 dyte
181		< 2	54	2	_320	270	attz-chl vein
182	_		72	4	165	260	9/2 & dyke
190	- L	280 -	-600-	62 -	180	400	gtz veins
191	-	8	60	5	250	255	fract py-chl.
192	-	38	. 39	15	305	935	porv. ser. in Eagle
193A		- 32	21	20		880	912 vuory leach chil
193B	-	3	30	10	520-	709-	9/2 with ser. onve
194	_	< 2	67	1	300	250	gtz with chl. selva
196		11	20	7	-950	-430:-	BRECEIA A
197		6	10	1	85	80	9/2- K-spar-ox. vzins in
199	_	3	26	74	85	240	Ear BRECCIA C
201	_	2	63	5	215	290	22
206		·	61		355	550	9.2 veins post ser enve
207		4	36	11	225	230	ser envel., gtz veins
208		4	14	200,:	245	- 405	Ser. anvel., gtz reins front per ch'. gtz-Mo-scr. cuts enve gtz with ser. envel. 6
210A		10	36	39	385	165	at with ser. envel. 6
210B	_	7	131	3	1200	450	scr. envll.
211		2	50	7	390-	575_	972 vein ser. envel.
212	_	< 2	168	1	405_	440	ab vein
215	•	3	5	_190	70	90	at-Mo-chloer with of
220A	-	< 2	142	24	210	570	abrain ser annual
<u>220A</u> 220B	_	< 2	359-	24	<u>210</u>	-470-	frac. Du-cer-chl
221A	_	10	78	17	-860-	÷.330-	9tz-Mo-chl(ser) with ch 9tz vein ser envel. frac. py-ser-chl. 9tz-chl.
2210		4	66	2	380	295	atz-lim. ox.
2218 221B	-	4	78	12	450-	190	gtz-lim. ox. pyritized Eagle.
						· · · · · · · · · · · · · · · · · · ·	
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Ē		- D A F	R-CL	EG	G &	CUI	VPA	NY LT	D.
1500 PEMBE	ERTON A	/E., NOF	ATH VAR		ER, B.C. F	PHONE: S	185-0681	TELEX: 04-	554
		Ge	ochei	mical	Lab	Repor	t	TELEX: 04-94	/
Extraction 105	liqua fiagi	<u>.</u>			Report No		• 94.9	1	
Method							vices		
Fraction Used					Date			Auguse 2°,	_19_77
SAMPLE NO.				p)73				REMARKS	3
C	2	<u>.</u>	<	225					17 m
Ţ	3	- 3	< .	540					
	4	50	< !	780					
3	4	54	< 2	740					-
3	3	63	< 1	\$25					
	2	63	< 1	625		- - 			
	3	30	× L	(1600)		A			
	10	130		755				ti presidente de la companya de la c	
-	121	120	\bigcirc	052					i a ≝
	35	140		(2400)					· 7
9 L .	15	63	2	625					
	44	75	Ł	565			767-		
	16	60	< 1	750			-		
.1	13	36	1	630					
÷,5	2	30	2	210		1.00			· ·
1.3	2	10	< 1	195					
.	3	66	< 1	85				34	
1,13	21	23	I	885					
1. g	3	25	< 1	400				2	ini ara
*	< 2	35	< 1	225					
	3	25	< 1	290					
	2	Lui:	< 1	360					
	215	265	•	ns					
	2	23	< 1	170					-
	5	54		295			-		
	3	4.0	< :	440					
12-7.	15	120	::5	620				-	
									5
				1			e	e Mr. J. Chri	sta -
L	1	diameter and	1						

BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

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Geochemical Lab Report

od :::: 0.5/c 1	24	lə Tin Mə	.Na	13	From	a locu	C 13	
on Used							ucrober 31	19
SAMPLE NO.	24	• • •	1.1 3	1 . 1	Ma a	F DOM	REM	ARKS
7 592		15	Lia	5	94:	260		r.
	•	252	520	4	j .).	400		
632	-	51	300	4	2133	480		
533		95	350	3	1420	420		
534	1) 12	5	75	1	54.)	330		
63.5	-	4	62	1	53-)	379		
636		40	i 56	20	1410	720		181
637		62	254	2)	1060	580		
638		107	1500	3	1420	550		
65)	**	15	. 245	2	930	420	72	
04.A		229	330	5	5600	400		
64JB	e)	20	335	2	2100	320		
541		91	700	1	4300	430		
	•	13	82	L	77)	450		1.5
643		56	314	1	1780	450		
644		54	195	12	7))	460	1	
645A	÷	54	490	2	177 0	860		
545B	-	64	1 750	1	17500	620		
546		24	i2J	1	1020	400		
647		44	220	Z	1340	620		
643	2.1	11	212	1	99)	640	ale de la compañía	
549	-	12	226	2	1179	550		
65 M	1.00	39	\$30	4	23.30	530	1.1.1	
65°. 3		230	300	2	3500	400		
552		9	24)	30	122 /	540		
5¢6		74	162	1	1130	420		
554	40	21	215	2	1030	370	er"	
555	21 A	67	- 313	6	34 10	460		
555	-	5)	106	L	3150	400	1	
537		52	134	1	1390	580		
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Geochemical Lab Report

Page No. _____2

SAMPL	E NO.	ыц. (1	25 1 31	 a	.∦o ¤∵na	Ma. m	5 		REMARKS
دان	11 651	-	2	46	1	24)	580		
	671	5	270	62	2	5900	750		
	67 2		4: .	1500	i	53.50	500	10.11	-
	673	1	4	42.5	1	22.).)	320		
	674		3.12	4ر	7	2000	340		
	675		94	834	1	1630	450		
	676		34	164	2	170	400		
	673	-	3.	4000	1	2300	370		
	579		320	14.0	З	3000	3 50		
	680		165	2600	2	3999	590		
1411100-012	631	-	15	214	8	830	530		
*	682	-	17	154	13	950	580		
and -	683		16	113	15	620	. 800		
in a second s	654A	-	4	34	Э	900	600		·. · · · · · · · · · · · · · · · · · ·
	6848	•	6	32	23.3	2.70	52.0		
	645		2	114	9	600	480		
	539		6	92	7	400	400		(*)(*)
	690A		245	- 450	1	160	520		
	6908		7:	690	1	1840	690		1
	691		49	430	2	330	600		
	692		4)	56.	2	8000	500		2 ¹ -2
	693	-	17	212	-1	973	520		
	694	5 5 6	253	1753	3	4600	550		
	\$95	-	J4	2:5	3	720	530		
	695	÷.,	17	332	3	3100	1300		
	693A		<u>(</u>)	d20	1	2400	770		
	6933		55)	زنال	1	51.33	750		
eks	699	~	10	77	18	060	430	×	
	700		L	45	13	240	370		
	731		8	64	3	460	400		
	7.2		6	66	2	500	400		
				51	2	360	360		
	7.7	*	2	÷.:		563	430		
	725	4	<i>i</i> ,	42	·.1	رور	360		
	7.9	-	4	69	4	340	469		

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BONDAR-CLEGG & COMPANY LTD.

Report No. 7 449

Geochemical Lab Report

3 Page No. —

SAMPLE NO.	*** ₁ ,		 	-21 - 11	Ma ⇒∋m	F ppm	REMARKS
Vaca 2 11 112		2	36	19	190	450	
711	-	- 2	56	1	360	420	
112			14		340	390	
/13		2	32	1	360	390	
7:4		5	32	2	324	500	
725		2	97	1	350	390	
716		5	54	2	320	370	
7175		4	- 55	2	360	430	
7173	~	Z	. SU	2	355	460	
718	-	11	70	40	350	540	
719	-	2	50	6	270	620	
720	-	2	36	54	260	430	
721		2	36	29	150	450	
722	سو	2	28	13	140	390	
723	-	3	13	3	50	220	
724	-	2	24	11	110	300	
723	-	2	33	49	160	370	
7253	-	2	43	183	269	520	
7263	-	3	14	3	50	280	
727		4	58	29	290	430	
723		2	56	205	280	430	
729		4	53	11	280	480	
730		4	40	3	250	360	
731		7	48	<1	310	370	
732		<2	50	2	250	420	
733		<2	42	2	390	400	
734		<2	52	2	230	370	
735	-	<.	22	23	120	300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
735	-	2	45	4	250	400	
737	-	2	⁴³	6	250	350	
738	-	2	53	4	280	640	
739	-	2	64	37	340	580	
740		2	54	34	200	450	
742	-	14	100	2	390	420	
743		2	50	3	290	370	

BONDAP-CLEGG & COMPANY LTD.

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Geochemical Lab Report

Page No. _____4

SAMPLE NO.	Сл Па	- 0 1000	a 01.a	lao pha	lin pon	Y Pa		REMARKS
cas 1-77 744		2	60	2	340	350	-	
745	-	0.	55	2	240	360		
745		·	.34	.)	130	350		
747.5		6	60	1	200	640	10.00	
7473	-	4	60	16	320	330		
748	250	5	37	7	240	450		
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BONDAR-CLEGG & CUMPANY LTC D.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

F, Basic Fusion; Extraction Pb,Zn,MoMn, Hot Aqua Regia: F, Specific Ion; Method Pb,Zn,Mo,Mn, Atomic Absorption:

_ Report No. __27 - 1412

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JMT Services From_

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÷		1	1	1				
SAMPLE NO.	BBm	Zn ppm	Mom	Mn ppm	Fppm			REMARKS
WL77_518	6	70	1	365	-			
519	250	320	2	3700	-			
520		49	<1	395	-			
521	12	180	<1	1700	-	1		
522	3	31	<1	98	-			
523	7	116	<1	610	-	-		
	6	30	<1	100	-		1	
526	6	70	2	110	-			
527	5	64	2	270	-			
528	12	84	21	1190	-			
52.9	10	88	17	615	-			
530	6	93	5	580	-	1.1		
531	6	52	4	590	-			
532	6	42	2	160	-			
533	5	36	<1	170	-			
534	7	38	<1	290	-			
535	5	28	1	85				
536	4	38	1	180	-			×
537	8	600	1	560	-	6.1	5. 1	
538	8	126	2	295	-			
539	9	160	2	370	-			
540	10	213	1	730	-			
542	7	385	<1	420	-			
544	16	240	1	1150	-		10	
545	8	168	1	155	-			A second second
546	38	540	<1	2600	-			
547	210	54.5	<1	1320	-			
548	85	640	<1	2000	-			
588	30	195	2	2700	-			
591	11	90	3	1240	-			
5.20	15	112	1.	1.5	-250			

BONDAR-CLEGG & COMPANY LTD.

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Geochemical Lab Report

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	and the second se		Mn ppm	ppm			
3	56	2	260	-			
5	40	2	80	-		1.1.100	
2	96	2	160	-			
12	138	6	670	-			
16	90	5	1540	-			
1 11	73	8	790	-			
31	128	2	280	-	1		
68	1250	5	1360	-			
87	580	4	1120				
116	1000	1	1400	-	6		
28	760	<1	585	-			
28	490	<1	480	-			
	935	1	960	-			· · · · · · /
62	625	1	870	-			
7	188	2	440	-			
5	67	1	205	-			· ·
				-			
10	218	3	390	_			
7	104	4	120	-			
7	87	4	120	_			2.50
				-			
	150	1	175	_		1.00	
	110	2	185				
4	95	2	120	-			
11	135	7	770	-			
8	82	28	1280	-			
				-			
10	127	3	760	-			
8				-			
				-			
14	84	2	1240	-			
							*
4	54		265	280			
	2 12 16 11 31 68 87 116 28 28 60 62 7 5 6 10 7 5 6 10 7 7 8 11 12 4 11 8 4 11 8 4 16 10 7 7 8 11 8 4 10 8 4	296121381690117331128681250875801161000287602849060935626257188567614810218710478781031115012110495111358824641611310127872445148452315872	2 96 2 12 138 6 16 90 5 11 73 8 31 128 2 68 1250 5 87 580 4 116 1000 1 28 760 <1	2 96 2 160 12 138 6 670 16 90 5 1540 11 73 8 790 31 128 2 280 68 1250 5 1360 87 580 4 1120 116 1000 1 1400 28 760 <1	2 96 2 160 - 12 138 6 670 - 16 90 5 1540 - 11 73 8 790 - 31 128 2 280 - 68 1250 5 1360 - 87 580 4 1120 - 116 1000 1 1400 - 28 760 <1	2 96 2 160 12 138 6 670 - 16 90 5 1540 - 11 73 8 790 - 31 128 2 280 - 68 1250 5 1360 - 68 1250 5 1360 - 68 1250 5 1360 - 68 1250 5 1360 - 7 580 4 1120 - 116 1000 1 1400 - 28 760 <1	5 40 2 80 $ -$ 2 96 2 160 $ -$ 12 138 6 670 $ -$ 14 90 5 1540 $ -$ 11 73 8 790 $ -$ 31 128 2 280 $ -$ 68 1250 5 1360 $ -$ 87 580 4 1120 $ -$ 116 1000 1 1400 $ -$ 28 760 <1

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Geochemical Lab Report

Page No. _____3

SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F ppm		-	REMARKS
L77 507	2	24	2	250	280			
503	<2	42	1	295	280		5 301	
510	2	44	2	290	280			
511	2	46	1	250	260			
512	4	52	1	400	280		- 11	
513	4	44	1	270	260			
514	<2	54	1	300	300			
516	2	53	1	300	300			
Par, 18-5 524	5	61		620	270			
549	200	390	1	2450	350			-
551	170	385	2	3300	610			
		620	1	10200	900			· · · · · · · · · · · · · · · · · · ·
552A 552B	<u>17</u> 12	1500	2	6000	610			
5520	64	210	1	395	740			
				,	680	1		
	360	375	2	2950	590			
555	62	880 112	2	6100 990	480			
556A	70	380	2	3300	770			
1 556B	240	450	3	225	610			
557	10	410	2	1300	590			
1. ·	84	1100	1	4900	560			
	,				660			
<u>559</u> 560	122	830 315	2	3900 1850	370			
L.		300	4	1300	480		*	
501	5				460			
562	16	435	1	2000	410			
563A	102	230	1	920	410			
563B	12	1250	1	6600	480			
564A	38	1250	1	6400	200			N
<u>564B</u>	<2	56	3	345				
5654	1.32	285	2	275	610	·,!		
565B	33	2150	1	13200	590			
	11	106	2	345	610			
567	14	900	1	4000	560			
568	72	315	1	3000_	500			· · · · · ·
569	3250	450	6	7900	500			

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Geochemical Lab Report

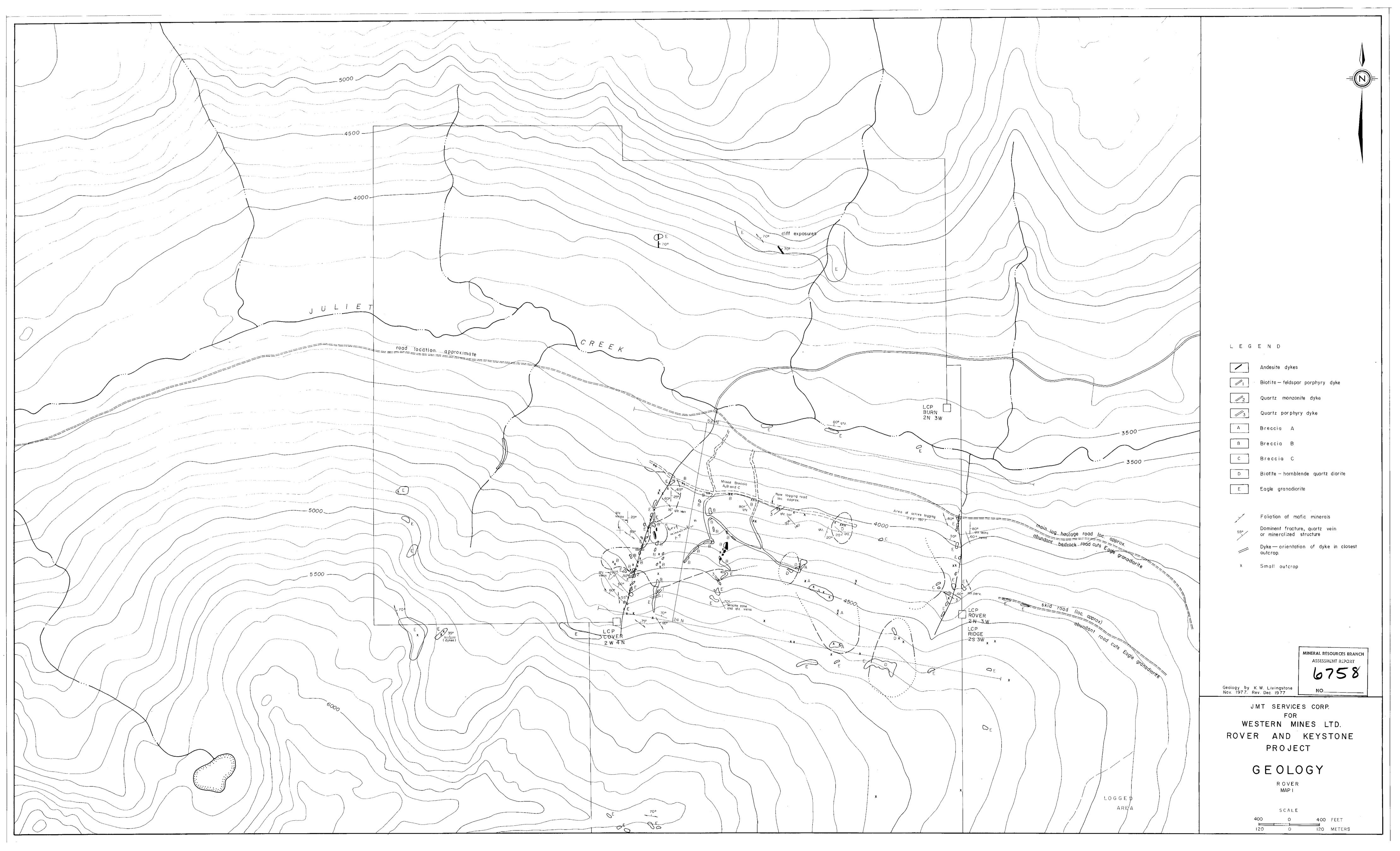
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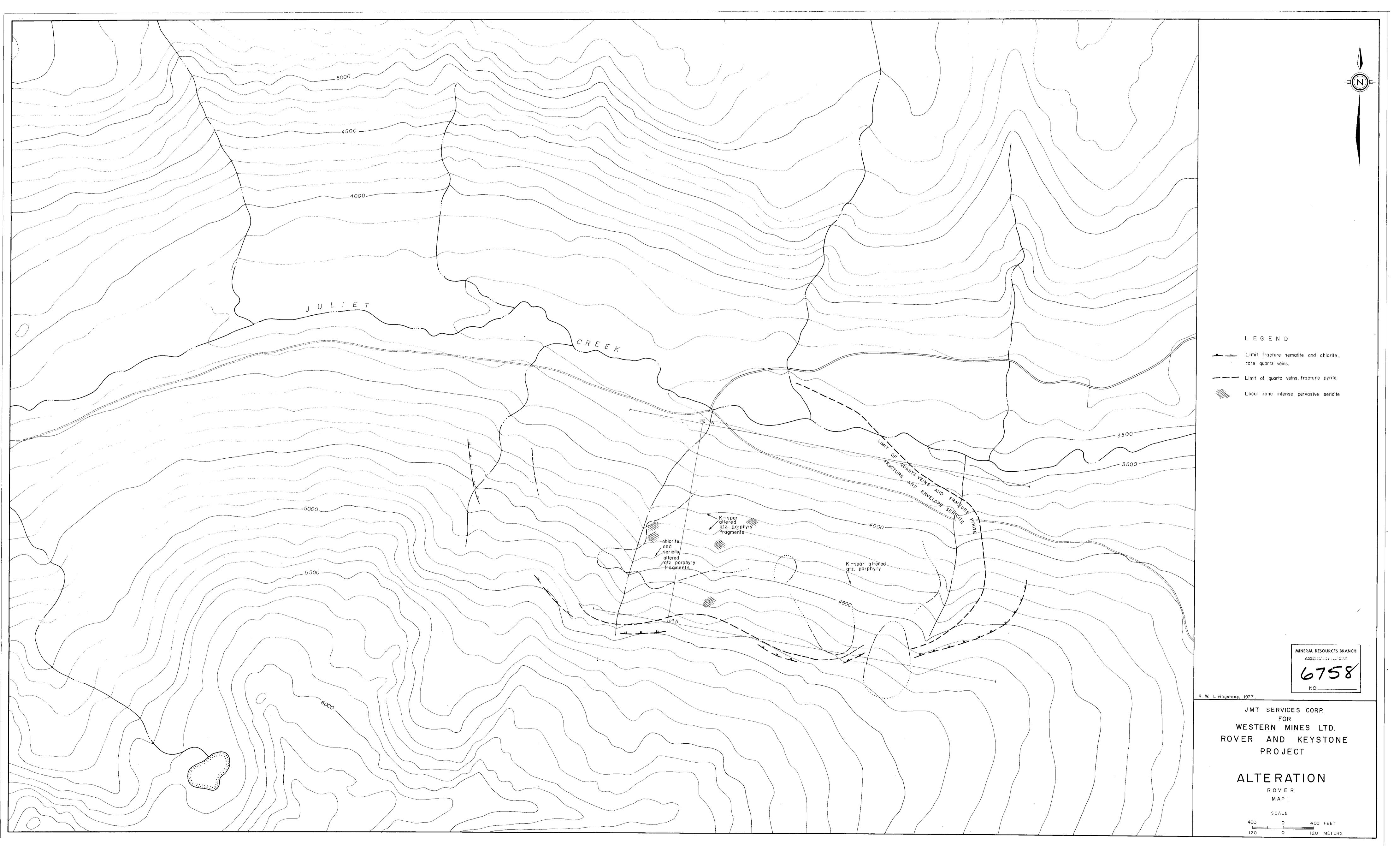
SAMPLE NO.	Pb ppm	Zn ppm	Mo ppm	Mn ppm	F Ppm			REMARKS
L77 570	94	146	1	1000	520			
572A	114	490	1	3500	540			
572B	132	4300	<1	91,00	630			
572C	42	200	<1	280	410			*
574	10	96	<1	690	340	1		
575A	8	84	<1	235	220			
576A	1000	>20000	1	6000	· 250			
576B	73	7250	8	860	250			
· 576D	23	560	<1	910	260			
577	11	212	<1	365	290	in the second se		
578A	33	695	<1	1040	330	- 6°		
578B	8	157	2	810	330			
\$ 580	86	840	<1	3800	370			
583	6	128	<1	460	310	1.11		
584	6	186	<1	570	280			
585	151	460	1	1090	290			
586	18	160	1	.810	260		A	
537	130	400	2	31.00	290			
597	12	103	3	365	440		1.00	
626	6	59	6	260	350			
627	4	46	6	185	330			•
628	5	49	136	165	330		1.1	
630A	2	34	17	60	210			4
630B	<2	18	1	90	250			
- 630D	6	108	2	220	310			en la companya de la
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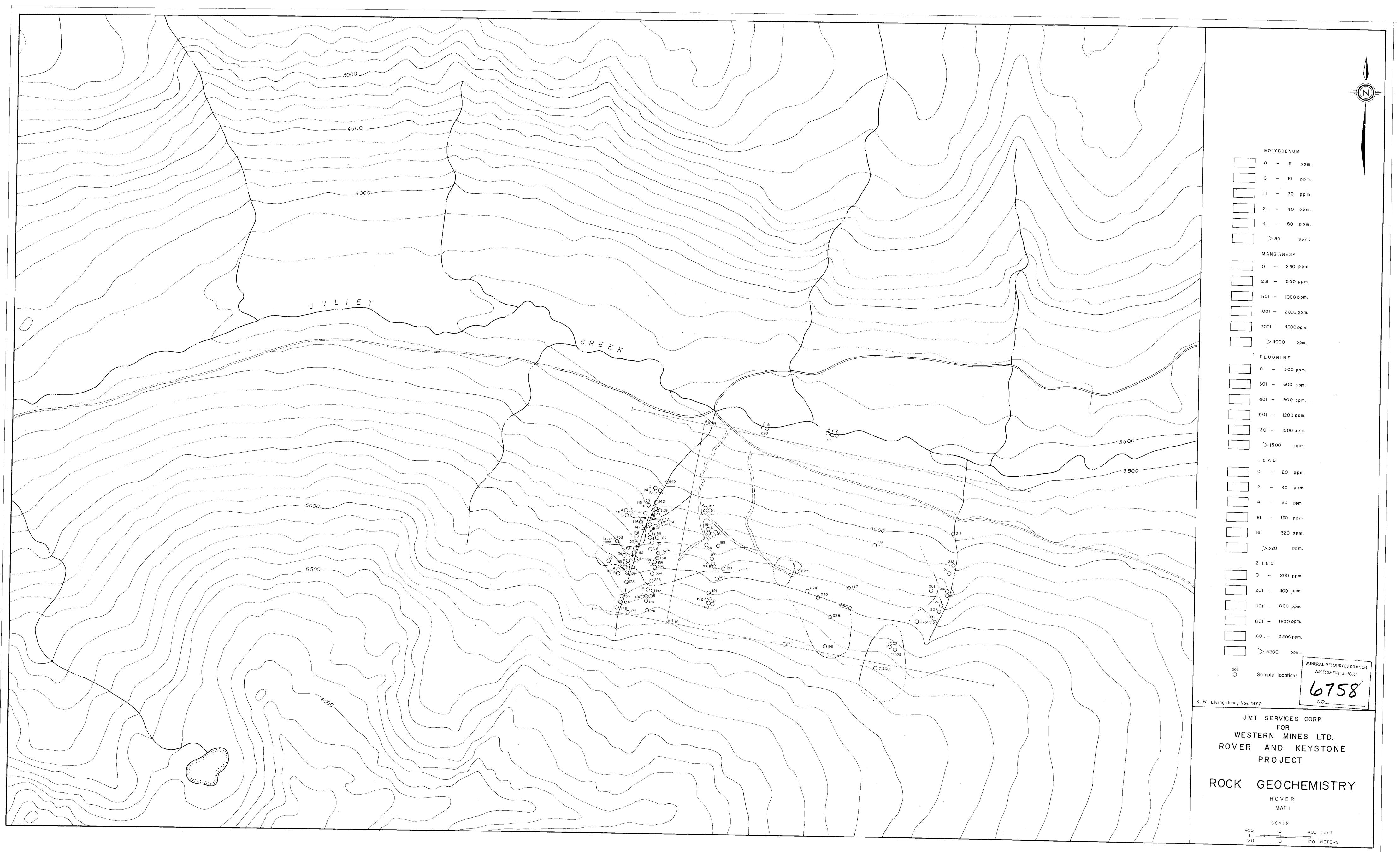
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1500 PEME	BERTON A	VE., NO	RTH VA	NCOUV	ER, B.C. PHONE: 9	85-0681	TELEX:	04-5455	54
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raction	Hot A	lqua Reg	ia		Report No27 -	610			
hod					FromJPT Ser		an a		
ction Used		•			Date		Jul	<u>ty 21,</u> 19	77
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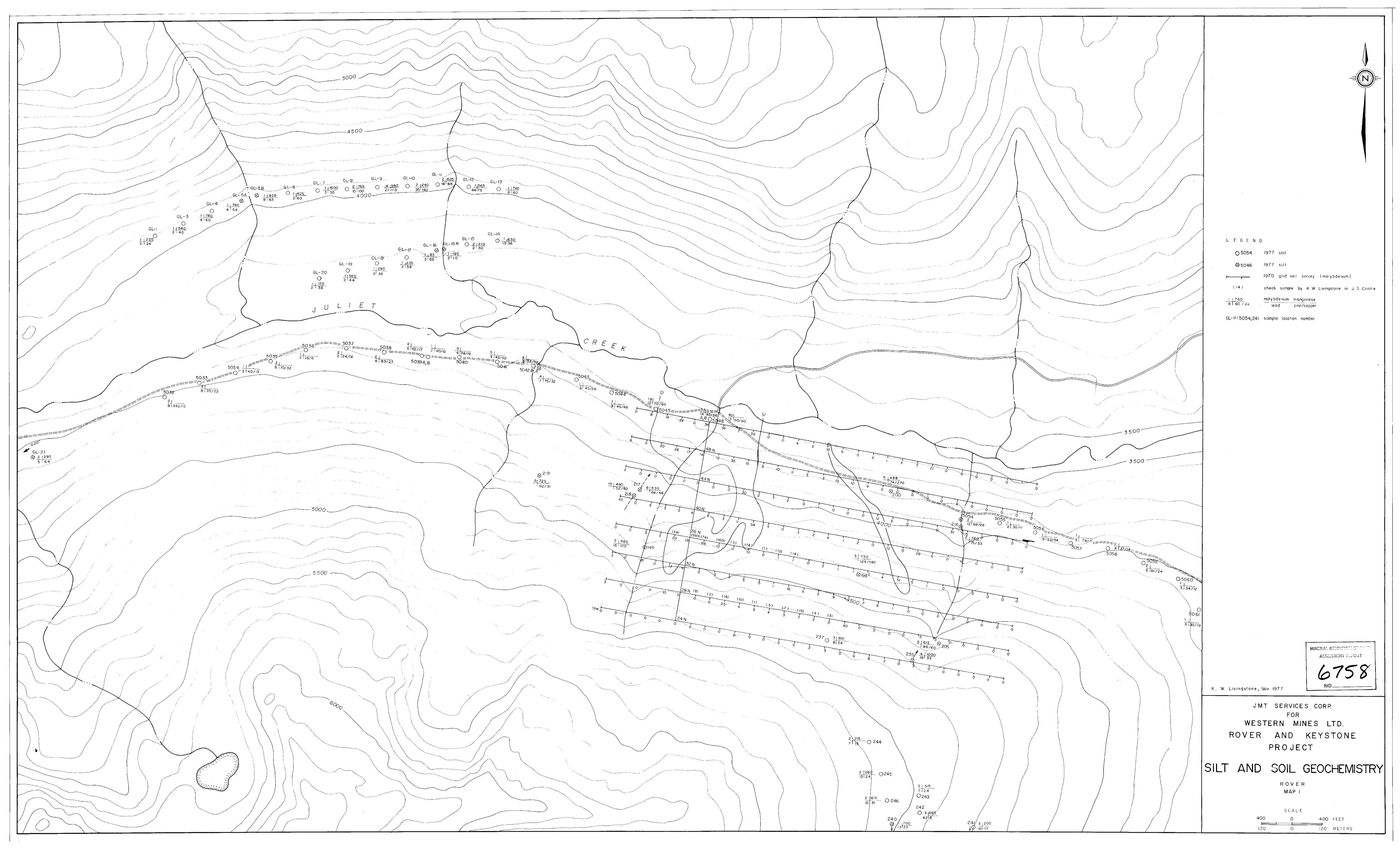
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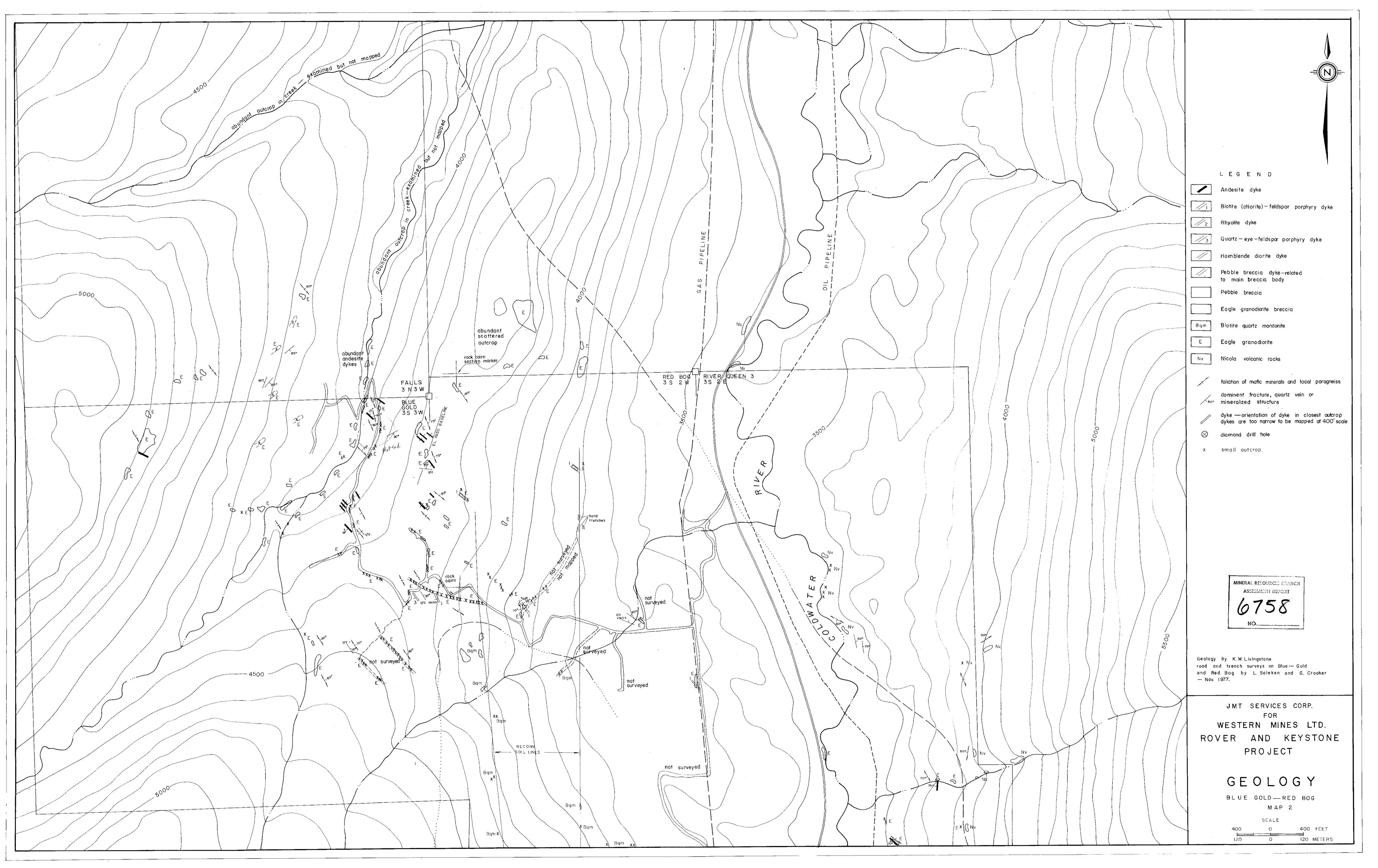
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61	4	1200					-		
62	5	820							
63	4	1740				1.1			
64	5	2600							
64A	5	1730	-		· · · · ·		1		
65	12	1860	A.		÷	- 74	1000		2
65	12	810						· · · ·	
63	3	550					110		
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232	1	600						1.1.1	
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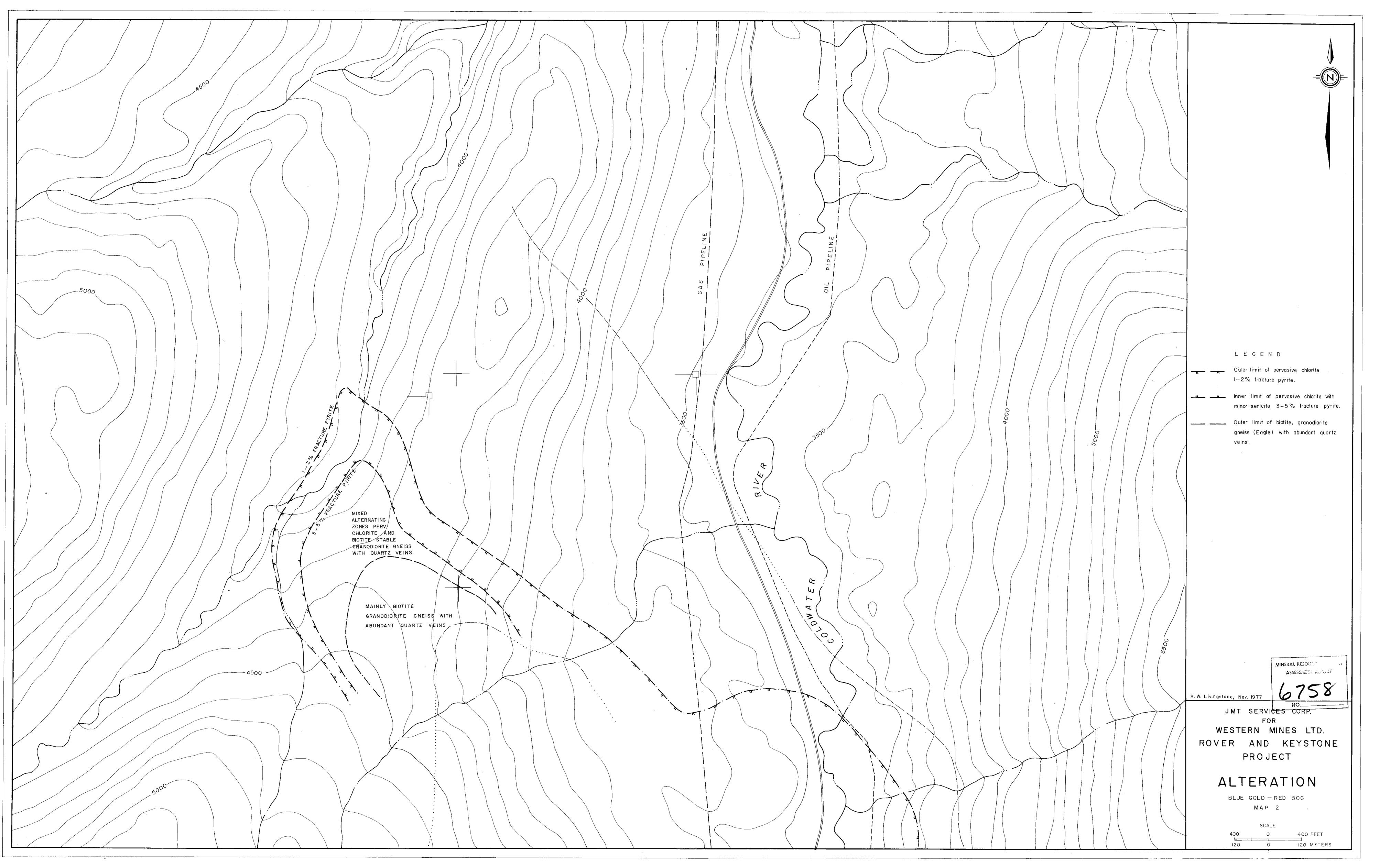


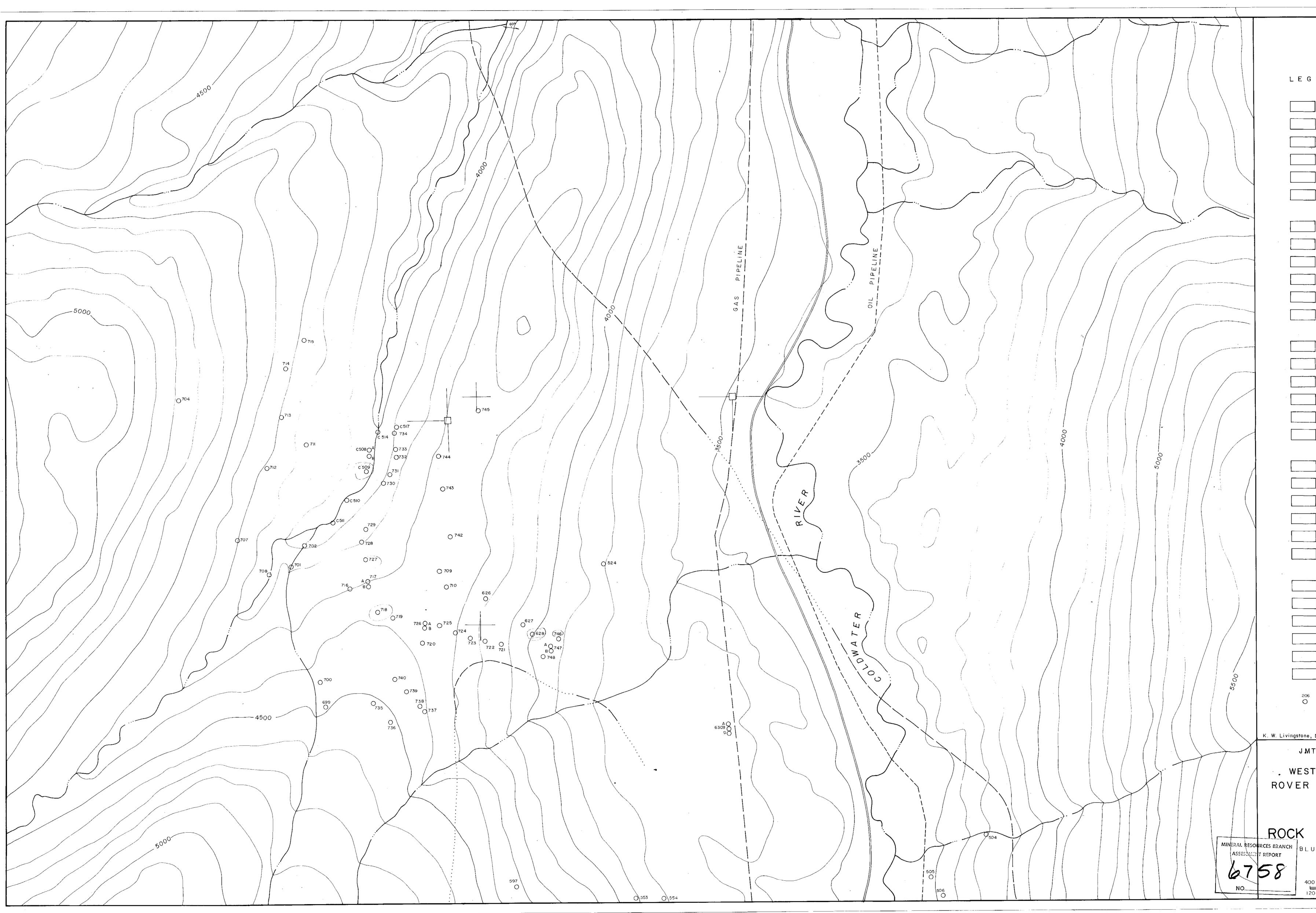




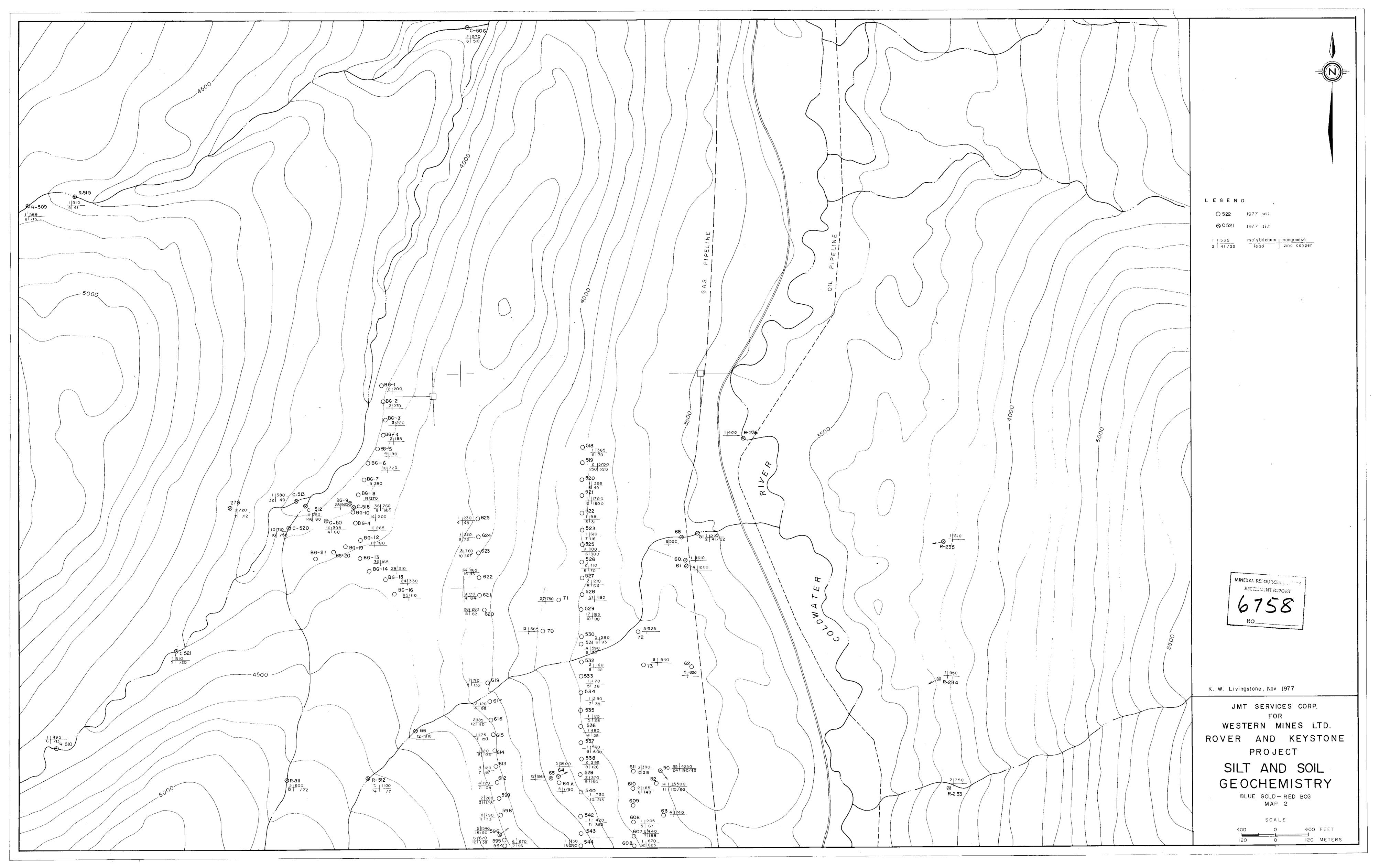


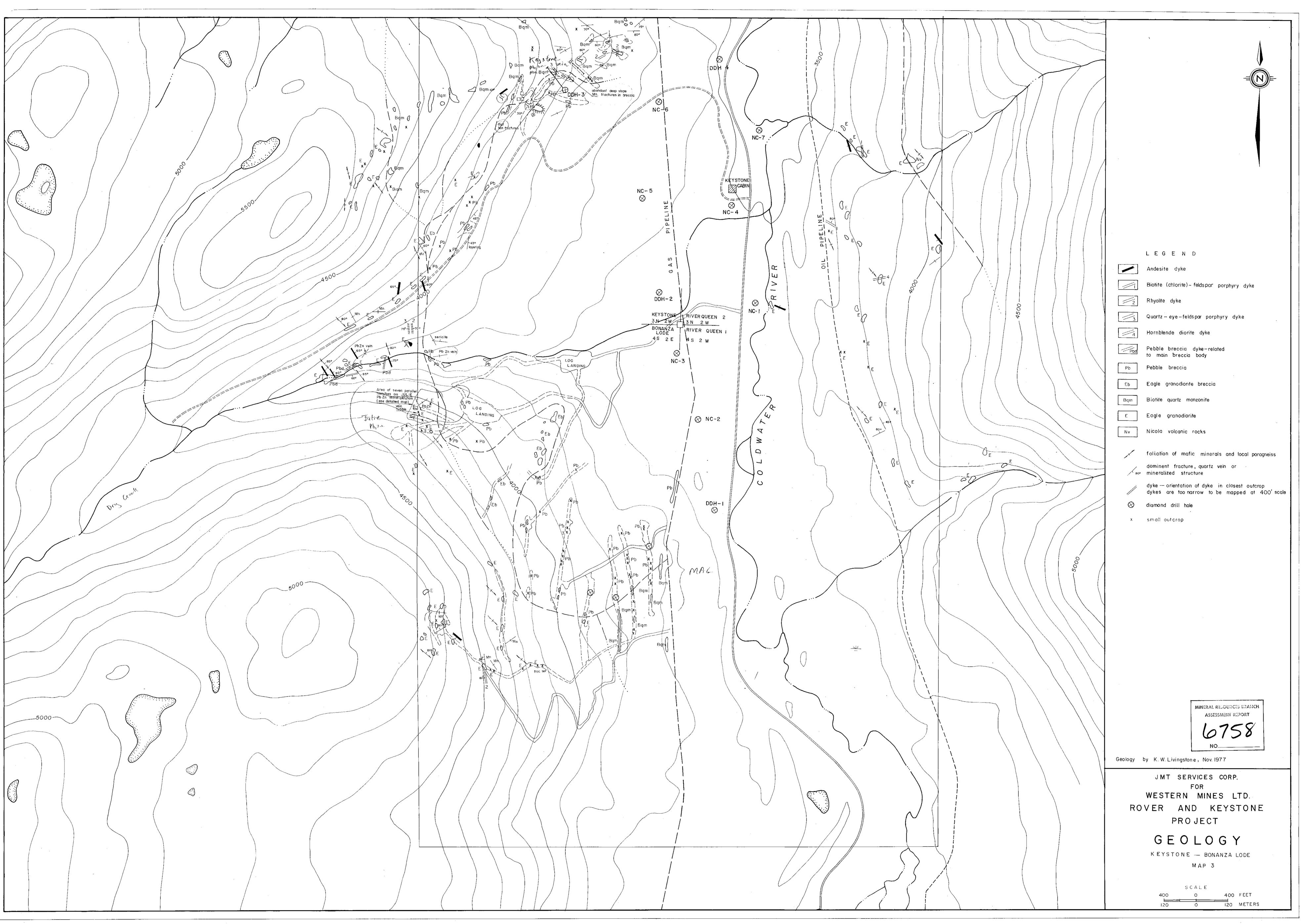


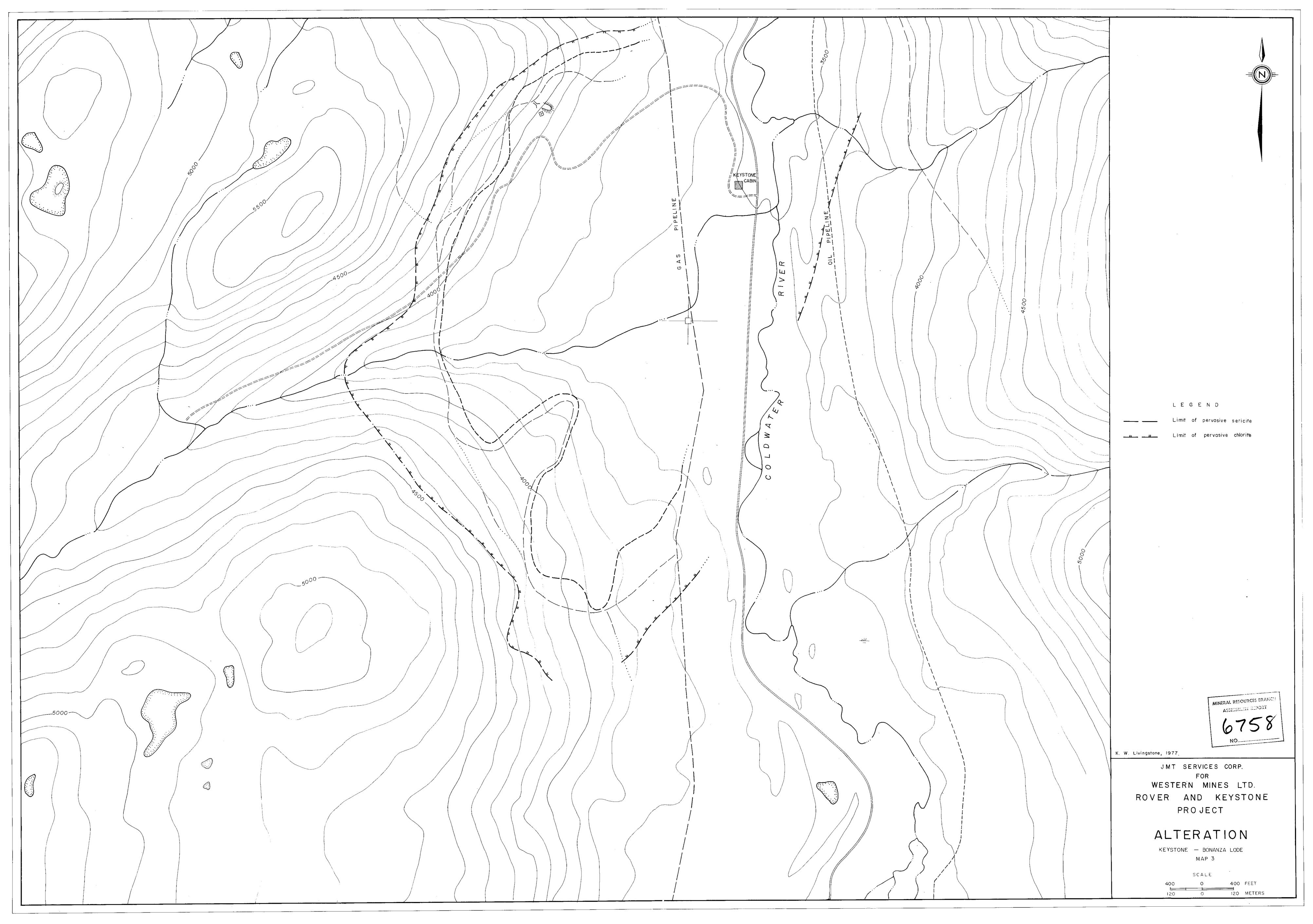


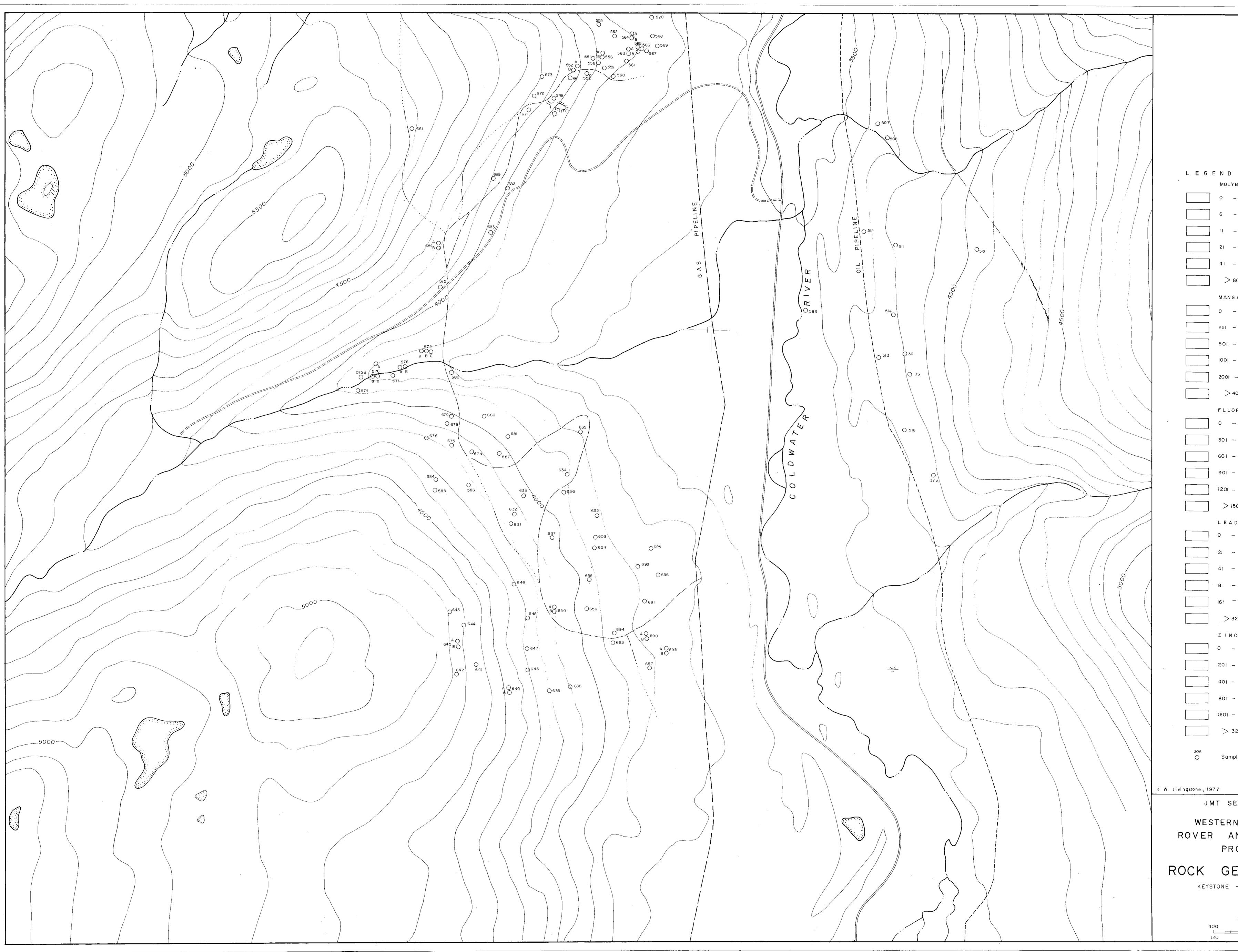


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