

82-308-10368

DRILLING REPORT
ON THE
LEAD PICK, HAZELTON VIEW, TIGER CLAIMS

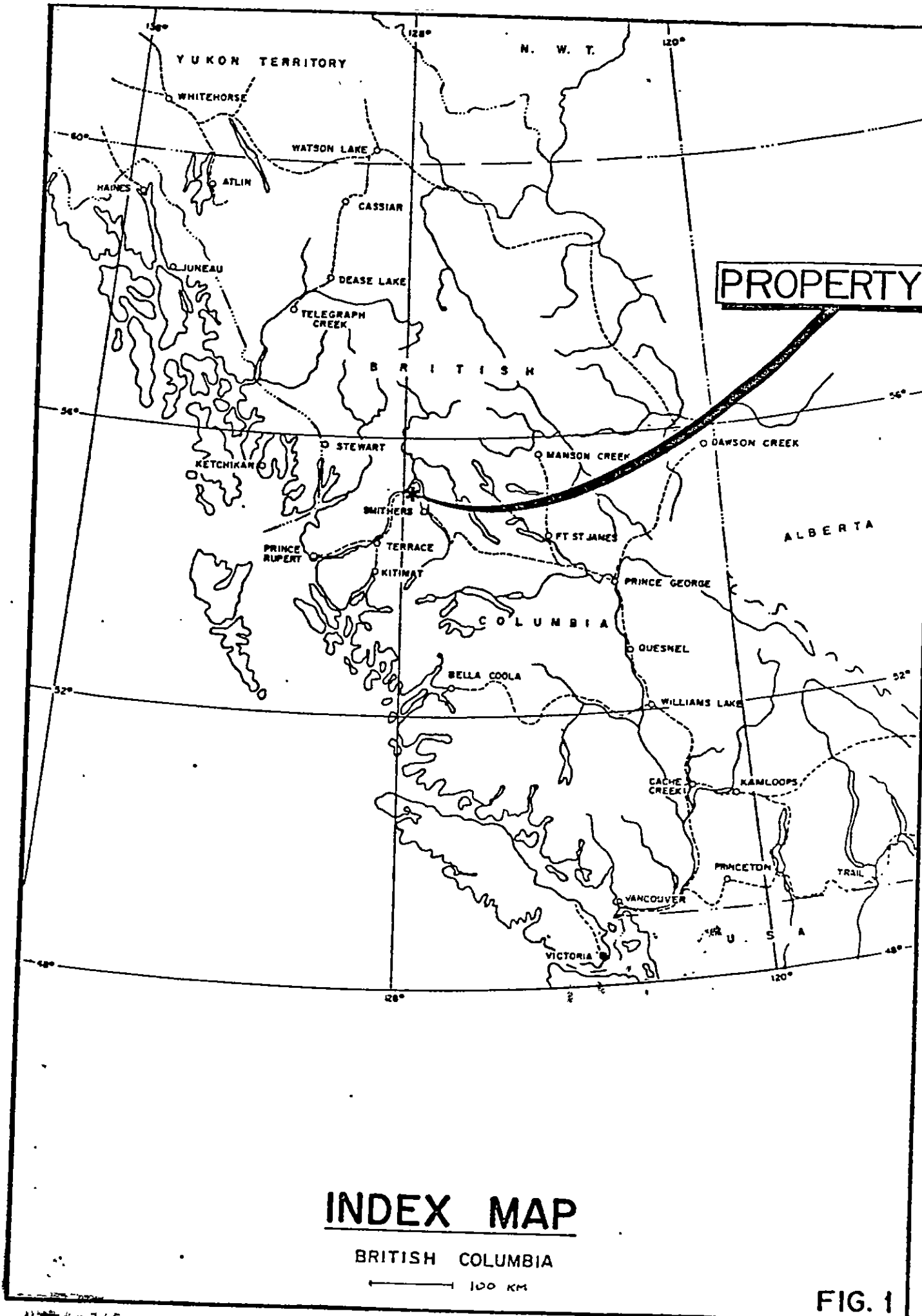
Roucher Deboule Property.
5 N.T.S. 93M/4E 55°10'N 127°38'W
Omineca M.D.
D. GROOT LOGGING LTD.
MINERALS EXPLORATION
SMITHERS B. C.

D.C. PLEKASH - GEOLOGIST.

March. 1982

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

10,368
NO. _____

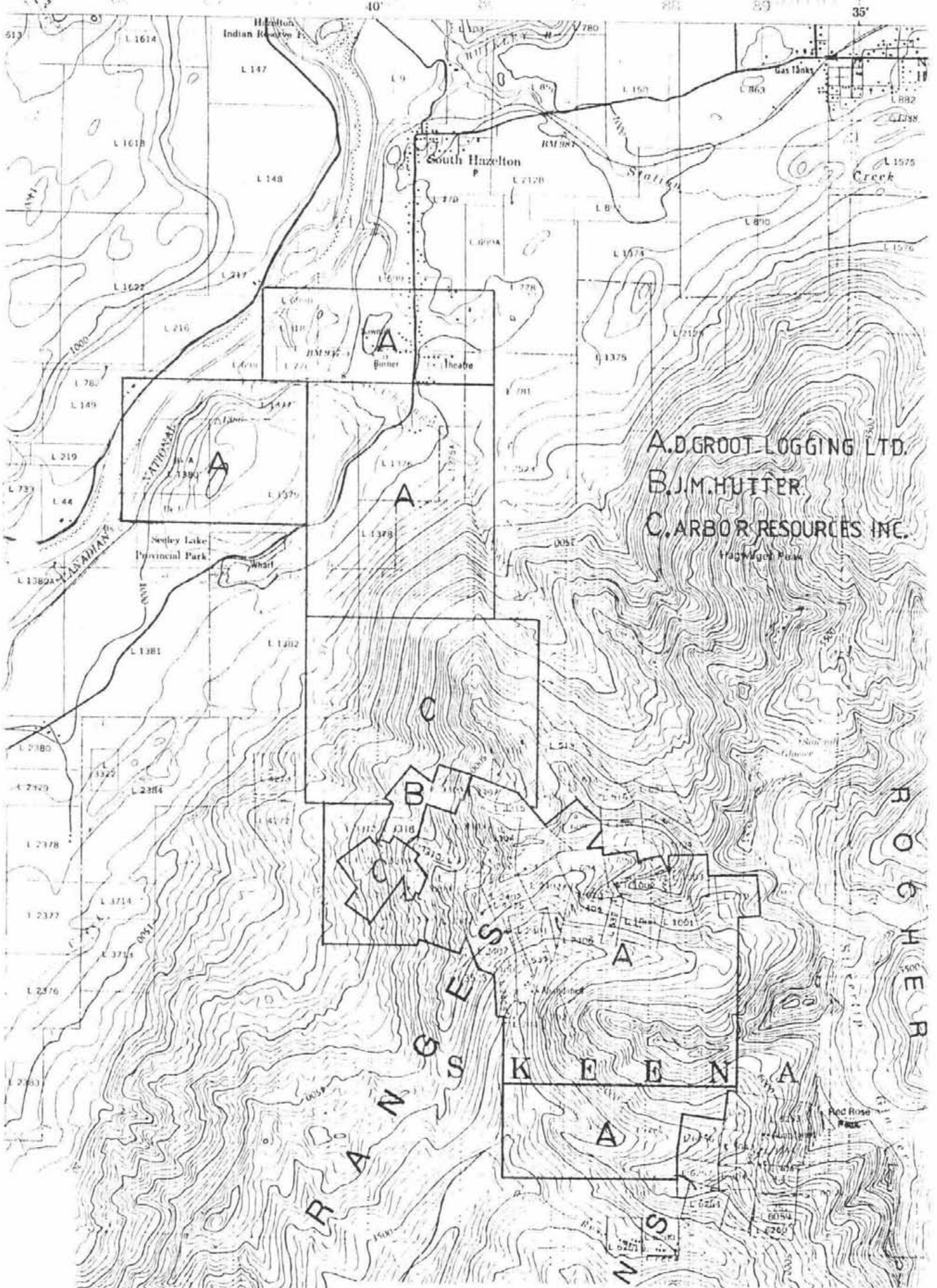


INDEX MAP

BRITISH COLUMBIA

100 KM

FIG. 1



D. GROOT LOGGING LTD.
 ROUCHER DEBOULE PROPERTY
 HAZELTON, B.C. AREA
 PROPERTY MAP

SCALE: 1:50000

DATE: OCT. 1981

DWN: D.C.P.

FIG 2

NTS: 93M/4E

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B R I T I S H C O L U M B I A
O M I N E C A M . D . - 9 3 M / 4 E
R O U C H E R D E B O U L E P R O P E R T Y

SUMMARY:

Between July 14, 1981 and October 9, 1982, D. Groot Logging Ltd. of Smithers, B.C. did work on the Roucher Deboule Property, that comprised of staking the July mineral claim of six (6) units and the star mineral claim of ten (10) units. The main existing road up to the area known as the Victoria Group above Seeley Lake, was repaired, widened and upgraded. This road was extended up into the basin and diamond drill sites were established along the road. A small camp was set up to accommodate a diamond drill crew.

Nine diamond drill holes were started and seven holes were completed. These holes were drilled to intersect a feldspar porphyry dyke, that, throughout its known length has been fractured and sheared. Subsequent, hydrothermal activity has resulted in the introduction of hornblende-feldspar pegmatites, quartz and sulphides as fracture fillings and as replacement.

The drill program was to try and explore the No. 2 vein system of the Victoria Group. The reason for this was on account of the results of previous sampling. An area of 18.1m in width gave an assay of 0.15oz Au. and another area had a width of 2.65m that in turn gave 0.58 oz Au. and 0.15% Co. It was not possible to get the diamond drill up into this area, but a parallel structure to the Victoria No. 2 vein and about 214m west was worked on. This zone is known as the Victoria No.3 vein in the old reports. The top diamond drill hole was collared at an elevation of 1627.7m and the lower diamond drill hole was collared at an elevation of 1315.0m and 723m to the northwest which is along strike of the zone.

With the short season in working in the higher elevations, it was necessary to contract some of the diamond drilling out, to get the program finished before the winter weather forced us off of the higher area.

LOCATION AND ACCESS:

The Roucher DeBoule Property is situated in West Central B.C. at latitude 55° - 10'N, and longitude 127° - 38'W. The claims are located 11km south of the settlement of South Hazelton, B.C. on the western slope of the Roucher DeBoule Range.

Access to the Northern or Victoria part of the property is via a steep narrow bush road that branches off of the Comeau Ranch Road. Access to the southern or Roucher DeBoule and Armagosa part of the property is via the Juniper Creek Road which leaves Highway 16 at Skeena Crossing some 20km southwest of South Hazelton, B.C.

HISTORY:

The Roucher DeBoule Property has been active off and on from early 1910 to around 1952. The Roucher DeBoule mine operated from 1915 to 1916; 1917 to 1918; 1928 and in 1952 which produced a total of 52,719 tons of ore. The Victoria mine worked the No. 1 vein that produced shipping ore in 1918; 1926; 1928; 1940 and 1941. The total amount shipped from this vein was 90.0 tons.

The property then lay dormant until acquired by Mr. W.F. McGowan and Family. In 1981 all claims were transferred into the name of Mr. W.F. Craig of Smithers, B.C.

In 1981 D. Groot Logging Ltd. did enter into an agreement with Mr. W.F. Craig to perform work on the property, in view of a future mining operation.

DEVELOPMENT AND PREVIOUS EXPLORATION:

The underground working on the Roucher DeBoule consist of five adit level cross-cuts, three sub-levels and extensive drifts along the veins. In total, over 1.6km of cross cutting, approximately 2.3km of drifting and some 700 to 800 meters of raises, winzes and internal shafts are recorded.

Of particular significance is the 1200' level cross-cut adit which was driven north to the northern boundary of the old Roucher DeBoule mining companies property line. The continuance of this cross-cut into the downward extensions of the Victoria mineralized zones would form a quick access into the area.

Evidence of surface exploration on the Roucher DeBoule seems quite limited as there is no reports of any underground or surface drilling.

The Victoria ground has been explored by a number of pits and trenches plus some 540m of drifting in five adits, all of which were driven on the Victoria No. 1 vein.

The Armagosa ground has short adits and a small shaft sunk on it. Skeena Silver Mines in 1952 did some trenching on the property but the results are not available.

GEOLOGY - REGIONAL:

The Roucher DeBoule Range lies within the Intermountain Belt of the Western Cordillera and forms a segment of the Hazelton Mountains. The passively emplaced Roucher DeBoule stock forms the mountain core and is surrounded on all sides by predominantly Skeena Group volcanics and sediments. Three minor N-S striking faults cut both the stock and the surrounding strata.

The stock is composed primarily of porphyritic granodiorite with a younger quartz monzonite phase.

Mineralization in the Mountain Range consists, for the most part, of fissure veins and shear zone replacements although a moly porphyry is presently being explored at the south end of the range.

Structurally the veins are relatively simple, striking generally east-west and dipping north on the western flank of the stock and north-south with a westerly dip on the eastern flank.

Mineralogically the veins are complex with several phases of mineralization documented.

GEOLOGY - LOCAL:

Eight major east-west striking north dipping veins spaced approximately 300m apart occur on the Victoria and Roucher DeBoule Property. The veins are predominantly developed within the Roucher DeBoule stock but have been traced westerly into the intruded volcanics and sediments.

The progression of events resulting in the formation of veins appears to be as follows:

- Intrusion and cooling of the Roucher DeBoule stock
- Intrusion and cooling of North-East trending quartz monzonite dykes
- Fracturing along present vein channels
- Intrusion of acid to intermediate porphyritic dykes along Victoria Nos. 1 and 2 and Roucher DeBoule No. 3 vein fractures.
- Renewed movement along vein channels and introduction of hornblende - quartz - feldspar pegmatites together with sheelite, molybdenite and uraninite.
- Further shearing along the veins and shattering of the Victoria No. 2 dyke followed by the introduction of chalcopyrite, a tin mineral? And Glossy quartz or arsenopyrite, safflorite, cobaltite, glaucodot, pyrrhotite and Gold. (Victoria area and to a lesser extent Roucher DeBoule).
- Renewed movement and the local introduction of tetrahedrite, sphalerite, galena and pyrite.
- Faulting along north north-west and north north-east axes and the intrusion of fine grained diorite dykes.
- In spite of the number of periods movement that have apparently taken place, off sets are generally less than 30m. and more typically less than 5m.
- In the Armagosa Creek area, which very little work has been done probably due to the steep slopes that make the mineralized area fairly inaccessible. The several veins Nos. 1 to 7, and 11, occur in the sediments, these veins show a marked parallelism in striking north north-east and dip to the northwest. It is reported that there are several fine grained (Diorite) dykes close by the veins. Feldspar porphyry dykes were also noted at several points.

REFERENCES:

E.D. Kindle, 1954, P.P. 84-89; A. Sutherland Brown 1960, Bull.43. Minister of Mines, B.C. Ann Repts. 1916 P.P. 114, 115; 1917, P.P. 103, 104; 1918, P.P. 112, 113; 1925, p. 134; 1927 P.P., 132, 133; 1928, P. 159; 1940, P. 76; 1941, P. 41; 1948, P.P. 80, 81, 82; 1949, P.P. 82-93; 1950, P. 99; J.J. O'Neill, 1919 P.P. 20-23; M.W. Jasper M.E. 1951, 1952, 1953 Reports.

1981 DIAMOND DRILL PROGRAM:

Between July 23, 1981 and October 9, 1981, 80km of road was rebuilt and widened, a new road of 1113 meters was constructed, 2132 sq. meters of area cleared for 6 diamond drill set ups, 320 sq. meters of area cleared for 2 water holes and 172 sq. meters cleared for a diamond drill campsite. A total of 1281.4m of diamond drilling was completed.

Diamond drill hole No. V81-1 was drilled in a due south direction with a minus 55° dip, at an elevation of 1569.7m. The purpose of this diamond drill hole was put in to try and intersect the main east west trending structure of vein fissures. From 0 to 12.8m were in overburden then the hole was in a zone of light to dark grey quartzites with some quartz seams shot throughout, to 39.8m. From 39.8m to 54.6m the hole went through a zone of mixed quartzites and granodiorite, with a fault zone at 54.0m. Next was an area of greywacke from 54.6m to 64.3m. The medium grey quartzites to 65.5m. A medium grey quartzites breccia with hornblende, granodiorite, quartz porphyry, quartz and feldspar porphyry was encountered between 65.5m and 82.2m. From 82.2m to 86.3m the hole was in a medium dark quartzites to a feldspar porphyry. The hole was stopped at 86.3m.

Diamond drill hole V81-2 was drilled in a S43°-30'W direction with a minus 51° dip at a 1569.7m elevation. This hole was drilled from the same set-up as diamond drill hole V81-1. The purpose of this diamond drill hole was to get another intersection of the vein structure. The hole went through 14.0m of overburden then from 14.0m to 19.5m there was ground up granodiorite and quartzites with mud seams. The diamond drill hole was stopped at 19.5m because of being unable to go any further in the unconsolidated material.

Diamond drill hole V81-3 was drilled 122m in a 569° E direction from diamond drill hole V81-1. This hole was drilled in a S02°-00'W direction at a minus 55° dip. The hole was collared at elevation 1627.7m. The purpose of this diamond drill hole was put in to again test the east-west vein structure. The first 0-3.6m were in overburden. From 3.6m to 35.4m the hole was in a mixture of feldspar Porphyry, granodiorite and hornblende. Pegmatite porphyry then appeared between 35.4m to 46.0m with a small 0.4m band of argillites at 42.4m. From 46.0m to 48.6m, appeared a band of quartz porphyry. At 48.6m to 52.4m the hole intersected mixed quartzites, quartz porphyry and feldspar. A zone of granodiorite and quartz porphyry went from

52.4m to 59.9m from 59.9m to 62.2m had mixed quartzites and quartz porphyry, then from 62.2m to 66.7m was bands of argillites and quartz porphyry. A zone of Granodiorite mixed with bands of quartz and quartz porphyry went from 66.7m to 78.5m. Some mixed bands of argillites and quartzites went from 78.5m to 82.7m. Then granite appeared from 82.7m to 87.5m with a 0.2m band of pegmatite dyke at 82.7m. The diamond drill hole was stopped at 87.6m.

Diamond drill hole V81-4 was drilled from the same set-up as diamond drill hole V81-3. This was put in at a minus 90° but was stopped at 8.0m as it was impossible to get through the large granitic boulders and slide debris.

Diamond drill hole V81-5 was collared 1.0m north of diamond drill hole V81-4 at a minum 90° dip and at an elevation of 1627.7m. The purpose of this diamond drill hole was to get a lower intersection of the vein structure on the same section line. The diamond drill hole was in overburden from 0 to 12.8m. From 12.8m to 20.7m the hole went through a medium to dark grey greywacke. From 20.7m to 52.4m the hole was in a granite with bands of quartz and hornblende scattered throughout. A 3cm fault was encountered at 47.1m and a 1.0m band of argillites appeared at 45.3m. Next came a zone of small bands of hornblende with pegmatite dyke in granite between 52.4m and 71.3m. There is also a 10cm fault at 70.7m and a 20 cm fault at 71.3m. From 71.3m to 83.4m the hole went through dark to medium grey quartzites with some bands of argillites between 71.3m and 78.8m. From 83.4m to 98.1m are mixed bands of granodiorite, quartz, hornblende and pegmatite a fault zone of 8cm to 98.1m. Quartzites with bands of granodiorite and feldspar porphyry showed up next between 98.1m to 108.2m. Between 108.2m and 113.7m is a band of argillites, then medium grey quartzites from 113.7m to 118.9m. The hole encountered a large zone of quartz porphyry between 118.9m to 188.7m which has intrusions of granodiorite quartz, pegmatite and a band of quartzites between 178.8m to 182.9m. A 6cm fault seam at 182.6m. From 188.7m to 191.1m is a zone of soft recemented argillites and quartzites. The hole now enters banded and brecciated quartzites that are quite choritic. From 196.4m to 208.3m the hole is in a quartz porphyry, with medium grey quartzites and pegmatite dykes between 197.5m to 199.5m. From 208.3m to 212.4m the diamond drill hole is in granite. The diamond drill hole was stopped at 212.4m.

Diamond drill hole No. V81-6 was drilled 116m from diamond drill hole V81-1, in a N72° W direction at an elevation of 1539.3m. The hole was drilled in a S24-00'W direction with a minus 55° dip. The purpose of this hole was to have

another intersection of the vein system towards the westerly direction. From 0 to 3.4m the hole was in overburden. Mixed granodiorite and quartzites with some feldspar porphyry was first intersected between 3.4m and 21.3m, then the hole went into a band of greyish green quartzites with feldspar porphyry from 21.3m to 26.8m. Between 26.8m to 36.9m was a zone of granodiorite. From 36.9m to 64.0m the hole intersected a dark to medium greyish green quartzites intruded by small bands of quartz feldspar porphyry and granodiorite. Another zone of granodiorite with a few small zones of quartzites and feldspar porphyry from 64.0m to 81.1m. From 81.1m to 126.8m the hole was in dark quartzites with bands of granodiorite and feldspar porphyrys. The diamond drill hole was stopped at 126.8m.


Diamond drill hole No. V81-7 was drilled from the same set-up as diamond drill hole V81-6 but with a minus 90° dip. The purpose of this diamond drill hole was to get a lower intersection on the vein structure in the same section plane. The hole was in overburden from 0-3.4m then went into mixed granodiorite and quartzites from 3.4m to 8.5m next a zone of granodiorite with a few bands of feldspar porphyry between 8.5m to 16.2m the diamond drill hole went back into mixed granodiorite and quartzites to 21.3m. From 21.3m to 88.4m the hole was in different coloured quartzites with little stringers of quartz, small bands of granodiorite and bands of feldspar porphyry. A little band of hornblende appeared at 63.8m between 88.4m and 162.2m the hole intersected an area of quartz porphyry with bands of quartz, granodiorite and feldspar porphyry. A 1.3m band of argillite appeared at 100.0m and hornblende appeared in small veins between 154.2m to 161.5m. The diamond drill hole ended in a zone of dark greyish green quartzites with small stringers of quartz and little bands of feldspar porphyry to 193.9m. The diamond drill hole was stopped at 193.9m.

Diamond drill hole V81-8 was drilled 216m away from diamond drill hole V81-6 in a N43°W direction. This diamond drill hole was collared at an elevation of 1458.5m and put in at a minus 90° dip. The purpose of this diamond drill hole was to again intersect the vein system at a further distance to the west. From 0 to 18.9m the diamond drill hole was in overburden. From 18.9m to 68.9m the diamond drill hole was in a dark grey quartzites with some bands of feldspar porphyry. The hole went into a medium grey quartzites from 68.9m to 179.0m with the odd narrow band of granodiorite and quartz stringers with bands of feldspar porphyry. A small 15cm band of argillite appeared at 87.9m. At 174.9m to 200.9m the hole intersected a zone of granodiorite with bands of feldspar porphyry and quartz stringers, between 182.0m to 200.9m small bands of granite up to 16cm wide appeared.

From 200.9m to 227.4m the hole was in granite with small veinlets of hornblende and feldspar porphyry to 214.5m then some granodiorite and pegmatite dyke to 227.4m. From 227.4m to 239.6m the hole was in a pegmatite dyke with a few quartz stringers and granodiorite, at 233.5m to 236.5m was a zone of dark green quartzites. From 239.6m to 247.5m the hole intersected an area of quartz porphyry. Then went into mixed granite and pegmatite dyke with a few bands of granodiorite to 253.0m. Between 253.0m to 262.0m the hole intersected a zone of dark granite with a 15cm fault zone at 253.6m and a 1.2m band of light buff granodiorite at 260.8m. A dark grey quartzites appeared between 262.0m and 264.0m then there was a pegmatite dyke from 264.0m to 266.1m. At 266.1m to 278.9m the hole went through a fine quartz porphyry with a small band of quartz and a zone of mixed granite and pegmatite between 275.5m and 278.9m. Between 278.9m and 287.3m the hole was in a pegmatite dyke with large coarse crystals. At 287.3m to 287.9m the hole is in a fault zone then goes into a dark soft argillite to 289.6m. The diamond drill hole was stopped at 289.6m.

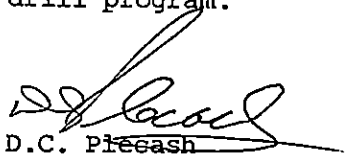
Diamond drill hole V81-9 was drilled 290m in a N39°W direction from diamond drill hole V81-8 at an elevation of 1315.0m. The diamond drill hole was drilled in a S03°-00'W direction at a minus 52° - 30' dip. From 0 to 9.1m the hole was in overburden. The hole intersected a zone of mixed quartzites and granodiorite with bands of feldspar porphyry. And little stringers of quartz from 9.1m to 80.6m. Between 80.6m to 116.4m. The hole was in a greywacke with a 2.5m band of argillaceous shists at 81.5m and then mixed quartz stringers, granodiorite and feldspar porphyry, also a band of dark grey quartzites from 101.2m to 110.6m with some argillites and feldspar porphyry. The hole intersected a zone of granodiorite with some quartz stringers and feldspar porphyry between 116.4m to 136.6m. At 136.6m to 149.7m the hole was in an area of greywacke that was intruded by granodiorite, little quartz stringers and feldspar porphyry. From 149.7m to 172.8m the hole was in a dark to medium grey banded quartzites with small stringers of quartz in granodiorite and feldspar porphyry. Fine grained quartz porphyry was intersected between 172.8m to 199.5m this area had some small quartz veinlets with some arsenopyrite and some garnets on some of the fractures. At 199.5m to 211.0m the hole went through a zone of granodiorite with small stringers of quartz. A 0.5m vein of quartz carbonate was encountered at 207.9m. From 211.0m to 222.2m the hole was in an argillite area. This had some quartz veining with a little feldspar porphyry and a 0.9m vein of quartz carbonate at 217.0m. Between 222.2m to 227.7m the hole was in a zone of granodiorite with little stringers of quartz and some feldspar porphyry. From

227.7m to 233.0m the hole was in a bed of greywacke then between 233.0m to 251.5m the hole was in a quartzites with some feldspar porphyry. A black band of argillite showed up between 238.4m and 238.8m. The diamond drill hole was stopped at 251.5m.


D.C. Placash
GEOLOGIST

CONCLUSION:

The diamond drill program on the Roucher DeBoule property in the Victoria area showed that the top diamond drill holes Nos. V81-3 and V81-5 were drilled in the granite stock that was intruded by granodiorite, pegmatite and feldspar porphyrys. Hornblende was found in the granodiorite associated with bands of quartz. These hornblende quartz zones carried some arsenopyrite cobalt and gold minerals. The remaining diamond drill holes which continue to the west and collared at lower elevations were drilled where the contact of hornfelsic greywacke and quartzites. Diamond drill hole V81-8 did have a little granite in it that resemble the granite in diamond drill hole V81-3. It is noted that the granodiorite, feldspar porphyrys, quartz veinlets and hornblende do intrude into the sediments, and also that the structure does follow along an east west strike. The top diamond drill holes Nos. V81-3 and V81-5 go through a host of rocks that do resemble the same host of rocks that has been described of the No.2 vein. The area tested has a overall length of over 724m. With this area now opened up as far as accessibility is concerned, more work could be preformed during the short work season than previously. Also with the water catch basins that were dugout lends to a lesser problem of a diamond drill program.


D.C. Piccash
GEOLOGIST

SCHEDULE "A"

<u>Name of Claim</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Recording Date</u>
Hazelton View	3299	401	Aug. 25, 1982	1976
Lead Pick	3300	402	"	
Moose	3301	403	"	
Elk	3302	404	"	
Delta Fraction	604	455	Oct. 26, 1986	1976
Joe Fraction	533	456	"	
Juniper	2400	457	"	
Balsam	2401	458	"	
Jack Pine	2402	459	"	
Timber Line	2403	460	"	
Iowa	2404	461	"	
Log Cabin	2405	462	"	
Balsam Fraction	2406	463	"	
Pie Fraction	2407	464	"	
Third Fraction	2408	465	"	
Victoria	3303	466	Oct. 26, 1987	
Belle	3304	467	Oct. 26, 1986	
View Fraction	3305	468	"	
Belle Fraction	3306	469	"	
Mammoth	3307	470	"	
Tiger	3308	471	"	
Bowl Fraction	3315	472	"	
Summit	605	555	April 5, 1984	1977
Great Ohio	702	556	"	
Pilot	704	557	"	
Summit Fraction	-	582	April 6, 1984	1977
Waterfall Fraction	-	583	April 22, 1983	1977
Coral Queen	532	616	June 21, 1982	1977
Lucky Jack	603	617	"	
Islander	710	618	"	
Golden Fleece	1001	619	"	
Happy Jack	1003	620	"	
Zig Zag Fraction	1005	621	"	
Balmoral	1002	622	"	
Highland Boy	1000	623	"	
Independance Fraction	4275	687	July 25, 1982	1977
Red Cross	3310	1372	Sept 13, 1983	1977
Leo	1-20	3110	Aug. 19, 1983	
Star	1-10	3986	Aug. 7, 1982	
July	1-6	3987	Aug. 7, 1982	

STATEMENT OF QUALIFICATIONS

I, Donald C. Plecash, of 3869 - 12 Avenue, Box 2694, Smithers, B.C. Certify that:


- 1) I attended Queens University, Kingston, Ontario from September 1947 to May 1950.
- 2) I was employed by Yale Lead & Zinc Mines of Ainsworth, B.C. as a Mine Surveyor, Junior Engineer and Junior Geologist from 1950 to 1956.
- 3) I was employed by Canam Copper Mines Ltd. of Hope, B.C. as a Mine Engineer and Mine Geologist from 1956 to 1957.
- 4) I was employed by Reeves MacDonald Mines Ltd. of Remac, B.C. as a Mine Engineer and Mine and Exploration Geologist from 1957 to 1969.
- 5) I was employed by Norex Uranium Ltd. of 605-535 Thurlow Street, Vancouver, B.C. as Exploration Manager and Geologist from June 1969 to October 1969.
- 6) I was employed by Nadina Explorations Ltd. of 1005-789 West Pender Street, Vancouver, B.C. as Mine Engineer and Mine Geologist then Mine Manager from November 1969 to September 1973.
- 7) I was employed from September 1973 to April 1980 in another industry.
- 8) I am employed by D. Groot Logging Ltd. of Box 520, Smithers, B.C. as a Geologist from May 1980 to present time.



ROUCHER DEBOULE
COST STATEMENT
1981

Road Building
Diamond Drill Set Ups
Water Supply Locations
Equipment Rentals
 Helicopters
 Cats
 Trucks
Diamond Drilling
Assaying

\$ 188,802.17


D.C. Piceash
GEOLOGIST

COST BREAKDOWN

DIAMOND DRILL PROGRAM SITE PREPARATION

Grading Existing Road		8hrs @ 90.00/hr	\$ 720.00	
Road Building	61m x 4m	4.6hrs @ 90.00/hr	414.00	
Lower Water Hole	35m x 8m	5.3hrs @ 90.00/hr	477.00	
Upper Water Hole	50m x 8m	7.6hrs @ 90.00/hr	684.00	
Campsite	22m x 8m	3.3hrs @ 90.00/hr	297.00	
Unused D.D. Site	14m x 8m	2.2hrs @ 90.00/hr	198.00	
D.D.H. V81-6&7 Site	60m x 10m	11.6hrs @ 90.00/hr	1,044.00	
D.D.H. V81-8 Site	42m x 10m	8.2hrs @ 90.00/hr	738.00	
D.D.H. V81-9 Site	40m x 10m	10.2hrs @ 63.50/hr	647.70	\$ 5,219.70
	2628m ²			

Cat Swamper & Labourer				
	M. Chapman 9 days @ \$106.50 includes Fringes		958.50	
Supervisor				
	D. Plecash 4 days @ \$196.43		785.72	1,744.22
4 x 4 Vehicle 4 days @ \$35.00/day				
	Gas & Oil		140.00	
			55.00	195.00


Total

\$ 7,158.92

COST DISTRIBUTION

Lead Pick	R 402	\$ 1,086.43
Hazelton View	R 401	2,690.49
Redcross	R1372	1,185.58
Tiger	R 471	2,196.42

\$ 7,158.92


D.C. Plecash
GEOLOGIST

COST BREAKDOWN

DIAMOND DRILLING 1281.4m (4204')

D. Groot Logging Ltd. 671.2m (2202')

Moving D8 Cat B.Devins	\$	320.35	
Moving D7 Cat Mico & Sons		99.50	
B. Devins Cat Job Backup		8,928.00	
Mico & Sons Cat Job Backup		5,322.30	
Moving Drill - Smithers & Return		<u>464.60</u>	\$ 15,134.75

4 x 4 Pick up Rental

Bow Mac Rentals		1,421.13	
Gas & Oil		681.30	
W. Maitland 4 x 4		<u>160.00</u>	2,262.43

J. Holland Enterprises - Diamond Driller 15,936.40

R. Groot - Wages, Bonus, Fringes - Drill helper 11,699.35

Supplies

Fuel & Lubricants		5,762.86	
Bits, Rods, Casing, Etc.		14,503.15	
Core Boxes & Lids 115 @ \$6.20		713.00	
Equipment Write-off		13,735.45	
Camp Supplies		1,328.00	

Watchman

M. Chapman			
4 days @ 125.00/day includes fringes		<u>500.00</u>	64,178.21


J.T. Thomas - Diamond Drill Contract 610.2m (2002')

Invoice		<u>74,281.00</u>	<u>74,281.00</u>
---------	--	------------------	------------------

\$ 155,856.39

Cost Distribution

Lead Pick	R 402	45,523.64	419.7m
Hazelton View	R 401	81,531.17	610.2m
Red Cross	R1372	900.00	
Tiger	R 471	27,901.58	251.5m


D.C. Plecash
GEOLOGIST

COST BREAKDOWN

SUPERVISION, CORE LOGGING, MAPS, REPORTS ETC.

Helicopter Rental

2 trips Smithers & Return \$ 1,225.60

D.C. Plecash

Supervision on Job 58 days @ 196.43 11,392.94
Logging & Splitting core 10 days @ 196.43 1,964.30
Maps & Reports 5 days @ 196.43 982.15
Typing, Blue prints, Photo Copies, Etc. 300.00

4 x 4 Vehicle

58 days @ \$35.00/Day 2,030.00
Fuel & Lubricants 771.46

Assay and Freight Costs


7,120.41

\$ 25,786.86

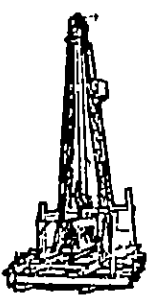
Diamond Drill Core Stored at D. Groot Logging Ltd. Sawmill
Tatlow Road,
Smithers, B.C.

COST DISTRIBUTION

Lead Pick	R 402	\$10,952.57
Hazelton View	R 401	8,885.24
Redcross	R1372	1,000.00
Tiger	R 471	4,949.05


D. C. Plecash
GEOLOGIST

Part
Microfilm
Tape



J. T. THOMAS
DIAMOND DRILLING (1980) LTD.
 —
SMITHERS, B.C.

PH. 847-3531
 P.O. BOX 394
 VOJ 2N0

To: D. Groot Logging Ltd.
 P.O. Box 520
 Smithers, B.C.

Invoice # 81-1
 Invoice Date: September 30, 1981
 Property: Hazelton

This is our invoice for diamond drilling and other services on the above property as per contract. Drill 44-1.

Diamond Drilling: See attached Page 2.	72 072.00
Total Footage - 2091'.	75,456.00
Man and Machine Hours: See attached page 3.	1,275 -
	1,875.00
Materials used, lost or damaged: See attached page 3.	634.00
	780.00
	<u>\$ 78,111.00</u>
	74,281.00

The above calculations are agreed to by:

D. Groot
 Company Representative

Jim Baker
 J.T. Thomas Diamond Drilling

107 74,281

E

B. DEVINS CONTRACTING LTD.

P.O. BOX 62

TELEPHONE 847-2583

SMITHERS, B.C. VOJ 2N0

OPERATOR'S DAILY EQUIPMENT REPORT

Location D. G. Root Logging Ltd

Equipment No. _____ Date July 10 to Sept 19 81

Day Shift _____

Area HAZLET Mining Night Shift _____

	Hours
Operator's Hours _____	
Machine Hours <u>D. G. CAT</u>	<u>150</u>
Hours Idle _____	
Service _____	
Repairs <u>RATE 90.00 PER HOUR</u>	

REMARKS

BLDING R.D. + DILL S.I.
Mining DILL - CORE PUL D. G. W
P.R. WATER

No. of Loads or Trips _____

Operator's Signature _____

904390 - 33 1/2
904575 - 66 1/2

Foreman's Signature _____

No 590

OK FOR PAYMENT
D. G. Root

SEE-MOORE PRINT - SMITHERS

Retention 12/21/81

MIRKO & SONS LOGGING LTD.

Box 155, New Hazelton, B.C.

DATE 11 17 1951

TO D. Grant Logging
Box 520
Smithton B.C. V52X6

QUANTITY	DESCRIPTION	TOTAL PRICE
8/17 ✓ 12		
12 ✓ 10		
17 ✓ 5	Round Rod	
4 ✓ 4		
22 ✓ 7	Wrenches	82.50
22 ✓ 7		
21 ✓ 7	Knives	7.00
25 ✓ 4		
38 ✓ 7	Peel-off Co.	10.00
29 ✓ 4		
30 ✓ 7		
1 ✓ 4		
2 ✓ 4		
5 ✓ 4		
6 ✓ 4		
7 ✓ 4		
8 ✓ 7		
9 ✓ 7		
44 63.50		5767.00
No 102	TOTAL	6068.50

(903192)

SEE MOORE PRINT - SMITHERS

OKANAGAN HELICOPTERS LTD.

4391 AVON DRIVE INTERNATIONAL AIRPORT
 VANCOUVER, B.C. V7B 1A5
 TEL (604) 278-5502 TELEX 04-355594

1

TYPE OF CONTRACT X
 DAILY MINIMUM 1-29 DAYS
 30 DAYS OR MORE

CONTRACT NO. 5405

BASE No. 170	BASE NAME <i>Smithers</i>	AIRCRAFT TYPE 206B	AIRCRAFT CODE 16	AIRCRAFT CALL SIGN G N N G	FLIGHT LOCATION <i>Smithers</i>	5405
CUSTOMER NAME AND ADDRESS <i>Good Logging Box 520 Smithers</i>				NAME PILOT No 1 <i>Jim Brindley</i>		NUMBER 0920
				PILOT No 2		
				ENGINEER No 1 <i>Tony Grant</i>		0033
				ENGINEER No 2		
P.O. NUMBER	NO PASSENGERS	FREIGHT LBS	CARGO DECLARED VALUE			

OPERATION	TAKE OFF	LAND	FLYING TIME
<i>4 people to Roche de Bal - local work. Return to Smithers</i>			13

SOURCE CODE	GL	DIV	SUB	EXTRA CHARGE OR ADJUSTMENT	AMOUNT	NON REV HRS	REV HRS	TOTAL HOURS	TARIFF RATE	AMOUNT
							13	13	420.00	559.00

UNLESS OTHERWISE STATED, PAYMENT IS DUE UPON RECEIPT OF INVOICE. INTEREST AT 2% PER MONTH (BEING 24% PER ANNUM) WILL BE CHARGED ON OVERDUE INVOICES.

CUSTOMER NUMBER <i>125</i>	INVOICE DATE	DAY	MO	YR	OUR FUEL GALS/LTRS <i>30.0</i>	<i>1.80</i>	<i>54.0</i>	
THE CARRIAGE OF PASSENGERS, BAGGAGE AND GOODS BY OKANAGAN HELICOPTERS LTD. IS SUBJECT TO THE TERMS, CONDITIONS AND LIMITATIONS OF LIABILITY SET FORTH IN ITS TARIFF (E.G. LIABILITY FOR LOSS OR DAMAGE TO GOODS IS LIMITED TO 50 CENTS PER POUND) FILED WITH THE ATC. AN EXTRACT OF WHICH IS AVAILABLE FOR EXAMINATION AT THE OFFICE OF OKANAGAN HELICOPTERS LTD.					OUR FUEL GALS/LTRS			
					OUR OIL HRS	<i>13</i>	<i>1.00</i>	<i>13.0</i>
					EXTRA CHARGES SUB TOT			
PRINT NAME OF PERSON AUTHORIZED TO SIGN FOR CHARTERER	SIGNED FOR CHARTERER BY				SIGNED FOR CARRIER BY <i>J. Brindley</i>		TOTAL <i>614.30</i>	

T. - 40

NUMBER

560



OKANAGAN HELICOPTERS LTD.
4391 AGAR DRIVE, INTERNATIONAL AIRPORT
VANCOUVER, B.C. V7B 1A5
TEL. (604) 278-5502 TELEX: 04-355594

FLIGHT DATE	DAY	MO	YR
1/14	21	75	11
TYPE OF CONTRACT X		CONTRACT NO	SUB NO
<input checked="" type="checkbox"/> DAILY <input type="checkbox"/> 1 TO 29 DAYS <input type="checkbox"/> 30 DAYS OR MORE			
AIRCRAFT CALL SIGN	FLIGHT LOCATION		TYPE OF FLYING
G-1211N	Smithers		
PILOT No 1	NAME		FLIGHT LOCATION NO
	John Jones		514013
PILOT No 2			INC CLASS NO
ENGINEER No 1			
ENGINEER No 2	1 Great		INC CLASS NO

BASE No	BASE NAME	AIRCRAFT TYPE	AIRCRAFT CODE
1716	Smithers	2060	116
CUSTOMER NAME AND ADDRESS			
Great Logging			
Box 520			
Smithers BC			
1137-2ND			
P.O. NUMBER	NO PASSENGERS	FREIGHT LBS	CARGO DECLARED VALUE
	3		

OPERATION

Smithers → Pouchard-Route

Mission Location

TAKE OFF

LAND

FLYING TIME

1 3

MINING 104695 (Ordn & Survey)

GL	DIV	SUB	EXTRA CHARGE OR ADJUSTMENT	AMOUNT	NON REV HRS	REV HRS	TOTAL HOURS	TARIFF RATE	AMOUNT
						1 3	1 3	43.1100	559.00

UNLESS OTHERWISE STATED, PAYMENT IS DUE UPON RECEIPT OF INVOICE. INTEREST AT 2% PER ANNUM (INCLUDING 24% PER ANNUM) WILL BE CHARGED ON OVERDUE INVOICES.

CUSTOMER NUMBER

INVOICE DATE DAY MO YR

CARRIAGE OF PASSENGERS, BAGGAGE AND GOODS BY OKANAGAN HELICOPTERS LTD. IS SUBJECT TO THE CONDITIONS AND LIMITATIONS OF LIABILITY SET FORTH IN ITS TARIFF (IF LIABILITY FOR LOSS OR DAMAGE TO GOODS IS LIMITED TO 50 CENTS PER POUND) FILED WITH THE AIR AN EXTRACT OF WHICH IS AVAILABLE FOR EXAMINATION AT THE OFFICE OF OKANAGAN HELICOPTERS LTD.

NAME OF PERSON AUTHORIZED TO SIGN FOR CHARTERER

1137-2ND

SIGNED FOR CARRIER BY

John Jones

OUR FUEL GALS /LTRS

30 @ 1.70 = 51.00

OUR FUEL GALS LTRS

OUR FUEL GALS LTRS

OUR OIL - HRS

1.3 @ 1.10 = 1.43

EXTRA CHARGES

SUB TOT

TOTAL \$ 611.30

H-2

BOW MAC TRUCK RENTALS

138062
INVOICE NUMBER

RENTAL CONTRACT BETWEEN
BOW MAC TRUCK RENTALS (OWNER)

A DIVISION OF BOWELL McLEAN MOTOR CO. LTD.
A CANADIAN OWNED AND OPERATED COMPANY

AGENT/CITY CODE 4399

AND D. Groot Minny (LESSEE)

ADDRESS 7122

CITY Victoria BC

P.O. NO. _____

THE LESSEE AGREES THAT THE FOLLOWING VEHICLE
TYPE OF VEHICLE 3 1/2 Ton 4x4 UNIT NO. 160144

IS TO BE USED IN OR BETWEEN _____

THE LESSEE AGREES TO RETURN THE VEHICLE TO THE OWNER ON _____ DATE _____ 19____

REPLACEMENT VEHICLE	
UNIT #	
KMS IN	
KMS OUT	

ALL ACCIDENTS TO BE REPORTED IMMEDIATELY TO NEAREST BOW MAC AGENT.

<p>ALL TRAFFIC VIOLATIONS AND ALL DAMAGES RESULTING FROM COLLISION WITH AN UNDERPASS OR OTHER OBJECT DUE TO INSUFFICIENT CLEARANCE OF HEIGHT OR WIDTH ARE LESSEE RESPONSIBILITY.</p>	<p>\$500.00 LIABILITY BY SIGNING LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS AND DAMAGE TO VEHICLE LIMITED HOWEVER TO \$5000 PER ACCIDENT PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT EXCLUDES WRECKEM OR TOWING CHARGES</p> <p><input checked="" type="checkbox"/> _____ (LESSEE SIGNATURE)</p>	<p>\$1,000 LIABILITY BY SIGNING LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS AND DAMAGE TO VEHICLE LIMITED HOWEVER TO \$10000 PER ACCIDENT PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT EXCLUDES WRECKEM OR TOWING CHARGES</p> <p><input checked="" type="checkbox"/> _____ (LESSEE SIGNATURE)</p>
--	---	---

- 1 Failure of the Lessee to return the vehicle within three days after the specified time shall constitute an unauthorized taking, use and operation of the vehicle and any costs and expenses incurred by the Owner for seizure and return of the vehicle to the Owner's premises shall be recovered from the Lessee
- 2 Lessee hereby indemnifies Owner against any fines or penalties assessed against Owner as a result of violation by Lessee of this agreement as to traffic and/or parking violations
- 3 Lessee agrees to be responsible for all damage to the vehicle while in his possession caused by negligent operation of the vehicle
I.E OPERATING VEHICLE WITH LACK OF WATER -- OIL -- ANTIFREEZE -- LUBRICANTS ETC
- 4 Lessee agrees to report all accidents and failures to the Owner immediately on occurrence
- 5 Lessee agrees that the vehicle herein described must not be used, operated or driven, nor does Owner give its consent, expressed or implied, to the vehicle being used, operated or driven by any other person than the Lessee or such other driver(s) as herein specifically named.
- 6 Lessee responsible for all windshield damage
- 7 Lessee to be the only authorized driver unless second driver's signature is recorded below
8. Renter is responsible for all damage to vehicle, including all tire and tube repairs.

I/WE HEREBY AGREE TO BE BOUND AND COMPLY WITH ALL OF THE ABOVE TERMS AND CONDITIONS WHICH INCLUDE THE TERMS AND CONDITIONS ON THE "REVERSE SIDE" HEREOF
SEE REVERSE SIDE

LESSEE'S SIGNATURE <u>[Signature]</u>	DEPOSIT PAID				
	DATE	INITIAL	AMOUNT	CASH	CC
DRIVER'S SIGNATURE _____					
DRIVER'S LICENSE NO. _____	EXPIRY DATE _____	PROVINCE _____			

BUSINESS PHONE _____	LESSEE'S PHONE _____	SIGNATURE OF AUTHORIZED AGENT <u>[Signature]</u>	BALANCE PAID X _____
----------------------	----------------------	--	----------------------

CREDIT REFERENCES _____
EMPLOYED BY _____
ADDITIONAL INFORMATION _____

THE ATTACHED VEHICLE INSPECTION REPORT DATED THE SAME DATE AS THIS RENTAL AGREEMENT BECOMES A PART OF THIS RENTAL AGREEMENT.

MILES/KM IN <u>1213</u>	DATE IN <u>1-5-77</u>	TIME IN _____
MILES/KM OUT <u>17277</u>	DATE OUT _____	TIME OUT _____
MILES/KM RUN <u>16060</u>	TOTAL DAYS _____	TOTAL HOURS _____
MILES/KM ALLOWED _____	UNIT NO _____	
EXTRA MILES/KM _____		

MONTHS @ <u>35</u> MONTH	
WEEKS @ <u>40</u> WEEK	
DAYS @ <u>48</u> DAY	
MILES/KM @ <u>0.18</u> MILES/KM	

OTHER (TAXABLE ONLY)		
SUB TOTAL	445	
1/4% SS TAX	324	
DAMAGE (ESTIMATE ATTACHED)		
MECHANICAL	447.0	
BODY	447.0	
TIRES	447.0	

PLUS FUEL	448	
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INITIALS	PAT INSURANCE /DAY	446
	CARGO INSURANCE /DAY	446

COLLISION DAMAGE LIABILITY WAIVER 448

TOTAL CASH	20001	220
TOTAL CHARGE		
TOTAL DEPOSIT		
REFUND RECEIVED X _____		

INVOICE NUMBER **138062**
TERMS - PAYABLE ON RECEIPT OF INVOICE
- 2% INTEREST AFTER 30 DAYS (24% PER ANNUM)

730 MALKIN AVE J-1
VANCOUVER BC V6A 2K2

IN THE EVENT OF A BREAKDOWN BOW MAC TRUCK RENTALS IS NOT RESPONSIBLE FOR LOSS OF TIME, WAGES OR FOR ANY OTHER CONVENIENCE OR OTHER CONSEQUENCES OF SUCH A BREAKDOWN. THE RENTER SHALL BE RESPONSIBLE FOR ALL SUCH DAMAGES AND CONDITIONS ON REVERSE SIDE



Bow Mac TRUCK RENTALS

138154
INVOICE NUMBER

RENTAL CONTRACT BETWEEN
BOW MAC TRUCK RENTALS (OWNER)

A DIVISION OF BOWELL McLEAN MOTOR CO. LTD.
A CANADIAN OWNED AND OPERATED COMPANY

AGENT/CITY CODE 12-66

AND D ELOT MINING (LESSEE)

ADDRESS BOX 321

CITY SMITHERS VOT-200

P.O. NO.	REPLACEMENT VEHICLE
THE LESSEE AGREES THAT THE FOLLOWING VEHICLE	UNIT #
TYPE OF VEHICLE	KMS IN
IS TO BE USED IN OR BETWEEN	KMS OUT
THE LESSEE AGREES TO RETURN THE VEHICLE TO THE OWNER ON	DATE
	19

THE ATTACHED VEHICLE INSPECTION REPORT DATED THE SAME DATE AS THIS RENTAL AGREEMENT BECOMES A PART OF THIS RENTAL AGREEMENT.

MILES/KM IN	22617	DATE IN	7-16	TIME IN
MILES/KM OUT	21478	DATE OUT	7-21	TIME OUT
MILES/KM RUN	1175	TOTAL DAYS	5	TOTAL HOURS
MILES/KM ALLOWED	280	UNIT NO		
EXTRA MILES/KM	1175			

ALL ACCIDENTS TO BE REPORTED IMMEDIATELY TO NEAREST BOW MAC AGENT.

ALL TRAFFIC VIOLATIONS AND ALL DAMAGES RESULTING FROM COLLISION WITH AN UNDERPASS OR OTHER OBJECT DUE TO INSUFFICIENT CLEARANCE OF HEIGHT OR WIDTH ARE LESSEE RESPONSIBILITY.	\$100.00 LIABILITY BY SIGNING LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED HOWEVER TO \$1000 PER ACCIDENT PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT. EXCLUDES WRECKIN OR TOWING CHARGES <input checked="" type="checkbox"/> LESSEE SIGNATURE	\$1,000 LIABILITY BY SIGNING LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED HOWEVER TO \$1000 PER ACCIDENT PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT. EXCLUDES WRECKIN OR TOWING CHARGES <input checked="" type="checkbox"/> LESSEE SIGNATURE
---	---	--

MONTHS @	700.00	MONTH
WEEKS @		WEEK
DAYS @	2.00	DAY
MILES/KM @	0.11	MILES/KM
OTHER (TAXABLE ONLY)		

SUB TOTAL	445	302.10
6% S.S. TAX	324	18.19

DAMAGE (ESTIMATE ATTACHED)	MECHANICAL	447 C
	BODY	447 A
	TIRES	447 B

PLUS FUEL	448
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INITIALS	P A I. INSURANCE /DAY	446
	CARGO INSURANCE /DAY	446
	COLLISION DAMAGE LIABILITY WAIVER /DAY	446

TOTAL CASH	20001	220	387.13
TOTAL CHARGE			
TOTAL DEPOSIT			
REFUND RECEIVED X			
BALANCE PAID X			

- Failure of the Lessee to return the vehicle within three days after the specified time shall constitute an unauthorized taking, use and operation of the vehicle and any costs and expenses incurred by the Owner for seizure and return of the vehicle to the Owner's premises shall be recovered from the Lessee
- Lessee hereby indemnifies Owner against any fines or penalties assessed against Owner as a result of violation by Lessee of this agreement as to traffic and/or parking violations
- Lessee agrees to be responsible for all damage to the vehicle while in his possession caused by negligent operation of the vehicle
I.E. OPERATING VEHICLE WITH LACK OF WATER — OIL — ANTIFREEZE — LUBRICANTS ETC
- Lessee agrees to report all accidents and failures to the Owner immediately on occurrence
- Lessee agrees that the vehicle herein described must not be used, operated or driven, nor does Owner give its consent, expressed or implied, to the vehicle being used, operated or driven by any other person than the Lessee or such other driver(s) as herein specifically named
- Lessee responsible for all windshield damage
- Lessee to be the only authorized driver unless second driver's signature is recorded below
- Renter is responsible for all damage to vehicle, including all tire and tube repairs.

I/WE HEREBY AGREE TO BE BOUND AND COMPLY WITH ALL OF THE ABOVE TERMS AND CONDITIONS WHICH INCLUDE THE TERMS AND CONDITIONS ON THE "REVERSE SIDE" HEREOF
SEE REVERSE SIDE

LESSEE'S SIGNATURE <u>S.K. DeLoach</u>	DEPOSIT PAID				
DRIVER'S SIGNATURE	DATE	INITIAL	AMOUNT	CASH	CC
DRIVER'S LICENSE NO.	EXPIRY DATE	PROVINCE			
BUSINESS PHONE	LESSEE'S PHONE	SIGNATURE OF AUTHORIZED AGENT <u>[Signature]</u>		BALANCE PAID	X

CREDIT REFERENCES _____

EMPLOYED BY: _____

ADDITIONAL INFORMATION _____

INVOICE NUMBER **138154**
 TERMS - PAYABLE ON RECEIPT OF INVOICE.
 - 2% INTEREST AFTER 30 DAYS (24% PER ANNUM)
 PERMIT TO
 730 MALKIN AVE
 VANCOUVER BC

IN THE EVENT OF A BREAKDOWN, BOW MAC TRUCK RENTAL IS NOT RESPONSIBLE FOR LOSS OF TIME, WAGES OR FOR ANY INCONVENIENCE OR OTHER CONSEQUENTIAL DAMAGES
 SUBJECT CLOSE SUBJECT TO FINAL AUDIT
 "SEE CANADA WIDE LOCATIONS AND CONDITIONS ON REVERSE SIDE"

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULEHOLE NO. V81-3Latitude _____ Elevation 1627.7M Bearing S02°-00'W Depth 87.5M Started Aug. 19, 1981 Completed Aug. 25, 81Departure _____ Section _____ Dip -55° Drilled By D. Groot Logging Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						oz Au	oz Ag	% Cu	% Ni	% Co	% As
0-3.6m	Overburden	3160	3.6m	7.6m	4.0m	0.022	0.02	0.01	0.01	LO.01	0.04
3.6m	Dark Hornblende with Feldspar Porphyry	3161	7.6	8.1	0.5	0.007	0.02	LO.01	0.01	LO.01	0.06
	More Quartz ground mass at 6.1m to 7.6m. Narrow	3162	8.1	8.4	0.3	0.090	0.01	LO.01	0.02	LO.01	0.41
	bands of Granodiorite at 7.6m to 8.1m. Hornblende	3163	8.4	10.0	1.6	0.003	0.02	0.02	0.01	LO.01	0.05
	at 8.1m to 8.4m.	3164	10.0	12.5	2.5	0.003	0.04	LO.01	0.01	LO.01	0.01
	Granodiorite with numerous 1cm Quartz	3165	12.5	15.1	2.6	0.003	0.01	0.01	0.01	LO.01	0.02
	Seams between 7.8m and 12.5m and thin layers	3166	15.1	15.7	0.6	0.003	LO.01	0.01	0.01	LO.01	0.02
	of Arsenopyrite shown on fractures.	3167	15.7	16.1	0.4	0.002	0.02	0.01	0.01	LO.01	0.01
	Mixed coarse to fine grained dyke @ 12.5M to 12.8m.	3168	16.1	17.4	1.3	0.002	0.01	0.01	0.01	LO.01	0.01
	1cm brown veinlet of dyke rock @ 12.8M.	3169	17.4	18.9	1.5	0.002	0.01	0.01	0.01	LO.01	0.01
	Quartz calcite with little vug holes mixed	3170	18.9	21.7	2.8	LO.002	LO.01	0.01	0.01	LO.01	0.02
17.4m	with quartz porphyry at 15.7m to 16.1m	3171	21.7	22.4	0.7	0.005	LO.01	0.01	0.01	LO.01	0.01
17.4m	Medium light sand mixed Granodiorite and Quartz	3172	22.4	24.3	1.9	LO.002	0.02	0.02	0.01	LO.01	0.01
18.9m	Porphyry with a few quartz veinlets.	3173	24.3	26.9	2.6	LO.002	0.01	0.02	0.01	LO.01	0.01
18.9m	Feldspar porphyry with a mixture of large and	3174	26.9	29.1	2.2	LO.002	0.01	0.02	0.01	LO.01	0.01
21.7m	small phenocrysts.	3175	29.1	29.4	0.3	LO.002	LO.01	0.01	0.01	LO.01	0.01

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULEHOLE NO. V81-3Latitude _____ Elevation _____ Bearing S02° - 00'W Depth 87.5m Started _____ Completed _____Departure _____ Section _____ Dip -55° Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
	Some patches of pink felspar and small										
52.4m	Stringers of ironpyrites										
52.4m	Granodiorite intruded by quartz for marble										
	effect, some ironpyrites and arsenopyrites.										
58.5m	shown on fractures										
58.5m	Quartz porphyry with large phenocrysts.										
59.9m											
59.9m	Banded medium grey quartzites										
61.3m	Core to beds 85°										
61.3m	Mixed quartz porphyry with bands of grey										
62.2m	Quartzites.										
62.2m	Quartz porphyry with bands of argillites										
	and bands of quartz.										
	62.5m to 63.1m bands of quartz core to beds 30°										
	64.0m to 66.8m quartz bands with core to beds										
66.7m	Averaging 75° ironpyrites and arsenopyrites										

seen on most fractures.

To

D. Groot Logging

Box 520

Smithers, B.C.

VOJ 2N0

Attention:

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 3910E-6-1

Date October 29, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	copper	nickel	cobalt	arsenic	Percent	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As		
<i>V81-3</i>								
3160	0.022	0.02	0.01	0.01	LO.01	0.04		
3161	0.007	0.02	LO.01	0.01	LO.01	0.06		
3162	0.090	0.01	LO.01	0.02	LO.01	0.41		
3163	0.003	0.02	0.02	0.01	LO.01	0.05		
3164	0.003	0.04	LO.01	0.01	LO.01	0.01		
3165	0.003	0.01	0.01	0.01	LO.01	0.02		
3166	0.003	LO.01	0.01	0.01	LO.01	0.02		
3167	0.002	0.02	0.01	0.01	LO.01	0.01		
3168	0.002	0.01	0.01	0.01	LO.01	0.01		
3169	0.002	0.01	0.01	0.01	LO.01	0.01		
3170	LO.002	LO.01	0.01	0.01	LO.01	0.02		
3171	0.005	LO.01	0.01	0.01	LO.01	0.01		
3172	LO.002	0.02	0.02	0.01	LO.01	0.01		
3173	LO.002	0.01	0.02	0.01	LO.01	0.01		
3174	LO.002	0.01	0.02	0.01	LO.01	0.01		

Note: Pulps retained three months.

Rejects retained two weeks.

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Form No. 13-C

CAN TEST LTD.


 Provincial Assayer

To:

D. Groot Logging

Box 520

Smithers, B.C.

VOJ 2N0



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 3910E-6-2

Date October 29, 1981

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	Copper	Nickel	Cobalt	Arsenic	Percent	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As		
<i>V81-3</i>								
3175	LO.002	LO.01	LO.01	0.01	LO.01	0.01		
3176	LO.002	LO.01	0.01	0.01	LO.01	0.01		
3177	LO.002	0.04	0.02	0.01	LO.01	0.02		
3178	0.20	0.02	LO.01	0.09	0.51	7.04		
3179	0.028	4.47	0.11	0.01	LO.01	0.21		
3180	0.002	0.06	0.01	0.01	LO.01	0.01		
3181	LO.002	0.02	0.01	0.01	LO.01	0.01		
3182	LO.002	0.02	0.01	0.01	LO.01	0.05		
3183	LO.002	0.02	LO.01	0.01	LO.01	0.01		
3184	LO.002	0.02	LO.01	0.01	LO.01	0.01		
3185	LO.002	0.01	LO.01	0.01	LO.01	0.01		
3186	LO.002	0.01	0.01	0.01	LO.01	0.02		
3187	LO.002	0.02	LO.01	0.01	LO.01	0.01		
3188	0.002	0.01	LO.01	0.01	LO.01	0.01		
3189	LO.002	0.02	LO.01	0.01	LO.01	0.01		

Note: Pulps retained three months.

Rejects retained two weeks.

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Form No. 13-C

CAN TEST LTD.

Provincial Assayer

To

D. Groot Logging Ltd.,

Box 520

Smithers, B.C.

VOJ 2N0

Attention:

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 3910E-6-3

Date October 29, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	Copper	Nickel	Cobalt	Molybdenum	Arsenic	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent Mo	Percent As	
V81-3								
3190	0.002	0.02	LO.01	0.01	LO.01	LO.01 ^x	0.02	
3191	0.002	0.01	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3192	0.004	0.04	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3193	LO.002	0.01	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3194	LO.002	LO.01	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3195	0.002	0.01	LO.01	0.01	LO.01	LO.01 ^x	LO.01	
3196	LO.002	LO.01	LO.01	0.01	LO.01	-	LO.01	
3197	0.002	LO.01	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3198	0.003	0.02	LO.01	0.01	LO.01	LO.01 ^x	0.01	
3199	LO.002	LO.01	LO.01	0.01	LO.01	LO.01 ^v	0.01	
3200	0.004	0.01	0.02	0.01	LO.01	LO.01 ^x	0.01	
3201	LO.002	LO.01	LO.01	0.01	LO.01	0.02 ^x	0.01	
3202	0.002	0.01	0.01	0.01	LO.01	-	0.01	
3203	0.004	LO.01	0.01	0.01	LO.01	-	0.01	
3204	0.002	LO.01	0.01	0.01	LO.01	-	0.02	

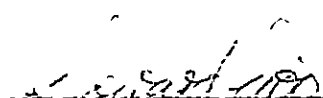
Note Pulps retained three months.

Rejects retained two weeks.

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Form No 13 C

CAN TEST LTD.


 Provincial Assayer

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULEHOLE NO. V81-3Latitude _____ Elevation _____ Bearing S02° - 00°W Depth 87.5m Started _____ Completed _____Departure _____ Section _____ Dip -55° Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						Oz Au	oz Ag	% Cu	% Ni	% Co	% As
21.7m	Fine Grained Grey Granodiorite with small	3176	29.4m	29.6m	0.2m	0.002	0.01	0.01	0.01	0.01	0.01
22.4m	Flecks of arsenopyrites.	3177	29.6	32.2	2.6	0.002	0.04	0.02	0.01	0.01	0.02
22.4m	Feldspar porphyry with a few bands of sand	3178	32.2	32.8	0.6	0.20	0.02	0.01	0.09	0.51	7.04
24.3m	Coloured granodiorite.	3179	32.8	33.2	0.4	0.028	4.47	0.11	0.01	0.01	0.21
24.3m	Brownish grey granodiorite with some small areas	3180	33.2	34.1	0.9	0.002	0.06	0.01	0.01	0.01	0.01
26.9m	of Feldspar porphyry - core to beds @ 75°	3181	34.1	35.5	1.4	0.002	0.02	0.01	0.01	0.01	0.01
26.9m	Feldspar porphyry	3182	35.5	38.6	3.1	0.002	0.02	0.01	0.01	0.01	0.05
29.1m		3183	30.6	40.2	1.6	0.002	0.02	0.01	0.01	0.01	0.01
29.1m	Light sandy granodiorite	3184	40.2	42.4	2.2	0.002	0.02	0.01	0.01	0.01	0.01
29.4m		3185	42.4	42.7	0.3	0.002	0.01	0.01	0.01	0.01	0.01
29.4m	Mixed sand coloured granodiorite with bands	3186	42.7	46.0	3.3	0.002	0.01	0.01	0.01	0.01	0.02
29.7m	of hornblende.	3187	46.0	48.6	2.6	0.002	0.02	0.01	0.01	0.01	0.01
29.7m	Mixed feldspar porphyry and hornblende	3188	48.6	50.6	2.0	0.002	0.01	0.01	0.01	0.01	0.01
32.2m		3189	50.6	52.4	1.8	0.002	0.02	0.01	0.01	0.01	0.01
32.2m	Hornblende with arsenopyrites	3190	52.4	55.5	3.1	0.002	0.02	0.01	0.01	0.01	0.02
32.8m		3191	55.5	58.5	3.0	0.002	0.01	0.01	0.01	0.01	0.01

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULE

HOLE NO. V81-5

Latitude _____ Elevation 1627.7m Bearing _____ Depth 212.4m Started _____ Completed _____

Departure _____ Section _____ Dip -90° Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays									
	10cm fault gouge at 70.7m														
71.3m	20cm fault gouge at 71.3m														
71.3m	Medium to dark grey quartzites and argillites														
78.8m	5cm pegmatite at 77.7m														
78.8m	Dark to medium grey quartzites														
83.4m															
83.4m	Mixed bands of granodiorite with quartz														
	Hornblende and pegmatite, little chalcopyrite														
	showing at 83.8m. Core to beds at 86.9m is 50°														
	More chlorite from 93.3m to 94.5m														
	94.5m to 96.1m much quartz with flecks														
	of molybdenum and arsenopyrite														
98.1m	8cm fault gouge at 98.1m														
98.1m	Quartzites with a few bands of granodiorite														
	mud seam at 101.5m in broken core 3cm quartz														
	with massive feldspar & Biotite														

at 104.2m

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULE

HOLE NO. V81-6

Latitude _____ Elevation 1539.3m Bearing S24°-00'W Depth 126.8m Started _____ Completed _____

Departure _____ Section _____ Dip -55° Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays			
	1.3cm mud seam at 33.8m								
	15cm feldspar porphyry at 34.1m								
	15cm feldspar porphyry at 34.4m								
36.9m	2.5cm mud seam at 36.6m								
36.9m	Dark to medium greyish green quartzites								
	37.0m to 37.2m feldspar porphyry								
	10cm band of granodiorite at 37.8m								
	38.4m to 39.6m bands of quartz								
	15.2cm band of granodiorite at 39.9m								
	40.9m to 41.1m feldspar porphyry								
	41.1m to 42.4m small bands of quartz								
	and granodiorite								
	15cm feldspar porphyry at 42.1m								
	42.5m to 43.0m lamprophyre dyke								
	44.8m to 45.4m feldspar porphyry								
	46.0m to 46.3m bands of quartz & Granodiorite								

Core to bed is 20°.

DIAMOND DRILL RECORD

Page 1 of 9

PROPERTY ROUCHER DEBOULEHOLE NO. V81-9Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started Sept. 21, 1981 Completed Oct. 7, 1981Departure _____ Section _____ Dip -52°-30' Drilled By D. Groot Logging Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						oz Au	oz Ag	% Cu	% Ni	% Co	% As
0-											
9.1m	Overburden	3205	9.1m	11.9m	2.8m	LO.002	0.01	0.01	LO.01	LO.01	LO.01
9.1m	Mixed feldspar porphyry in dark grey	3206	11.9m	12.8	0.9	LO.002	0.02	0.04	LO.01	LO.01	0.01
12.8m	Quartzites	3207	12.8	15.5	2.7	LO.002	0.02	LO.01	LO.01	LO.01	0.01
12.8m	Granodiorite with quartz veining, oxidization	3208	15.5	18.9	3.4	LO.002	0.02	0.01	LO.01	LO.01	0.01
15.5m	on fractures	3209	18.9	20.6	1.7	LO.002	0.01	0.01	LO.01	LO.01	0.01
15.5m	Mixed granodiorite and quartzites, between 18.3m	3210	20.6	21.3	0.7	LO.002	0.02	0.01	LO.01	LO.01	0.01
	and 19.5m is a fair amount of ironpyrites	3211	21.3	23.5	2.2	LO.002	0.02	LO.01	LO.01	LO.01	0.01
	scattered throughout, granodiorite is medium	3212	23.5	25.3	1.8	LO.002	0.02	0.01	LO.01	LO.01	0.01
20.6m	Brown in colour	3213	25.3	28.3	3.0	LO.002	0.02	0.01	LO.01	LO.01	0.01
20.6m	Dark grey quartzites with a 20cm band	3214	28.3	31.4	3.1	LO.002	0.02	0.02	-	0.01	-
21.3m	of feldspar porphyry at 21.2m	3215	31.4	34.4	3.0	LO.002	0.02	0.03	LO.01	LO.01	0.01
21.3m	Granodiorite with quartz stringers and	3216	34.4	36.6	2.2	LO.002	0.02	0.01	LO.01	LO.01	LO.01
	veinlets, some ironpyrites and arsenopyrites	3217	36.6	38.6	2.0	LO.002	0.02	LO.01	LO.01	LO.01	0.01
	showing up.	3218	38.6	39.6	1.0	LO.002	0.02	LO.01	LO.01	LO.01	0.01
	core to beds @ 22.3m is 65°	3219	39.6	42.7	3.1	LO.002	0.02	0.01	LO.01	LO.01	0.01
25.5m	core to beds @ 25.0m is 75°	3220	42.7	45.7	3.0	LO.002	0.02	LO.01	LO.01	LO.01	0.02

DIAMOND DRILL RECORD

PROPERTY Roucher DebouleHOLE NO. - V81-9Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started _____ Completed _____Departure _____ Section _____ Dip -52°-30' Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						oz Au	oz Ag	% Cu	% Ni	% Co	% As
25.5m	Granodiorite with the odd stringer of quartzites	3221	45.7	46.4	0.7m	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	15cm quartzites at 25.5m	3222	46.4	48.8	2.4	L0.002	0.02	L0.01	L0.01	L0.01	L0.01
	10cm quartzites at 25.9m	3223	48.8	49.9	1.1	L0.002	0.01	L0.01	L0.01	L0.01	0.01
	10cm feldspar porphyry at 29.4m	3224	49.9	51.1	1.2	L0.002	0.02	0.01	L0.01	L0.01	0.01
31.4m	Banded dark grey quartzites	3225	51.1	53.4	2.3	L0.002	0.02	0.01	L0.01	L0.01	0.01
31.4m		3226	53.4	54.9	1.5	L0.002	0.02	0.01	L0.01	L0.01	L0.01
38.6m		3227	54.9	57.9	3.0	L0.002	0.01	L0.01	L0.01	L0.01	0.01
38.6m	Medium to dark brown grandiorite	3228	57.9	60.0	2.1	L0.002	0.01	0.01	L0.01	L0.01	0.01
39.6m		3229	60.0	62.9	2.9	0.002	0.01	0.01	L0.01	L0.01	0.01
39.6m	Dark grey banded quartzites	3231	62.9	65.4	2.5	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	39,6m to 40.2m ground up core	3232	65.4	68.4	3.0	0.002	0.02	L0.01	L0.01	L0.01	0.01
	from 41.4 banding more pronounced with medium grey to dark grey bands up to 5cm wide	3233	68.4	71.3	2.9	L0.002	0.02	0.01	L0.01	L0.01	0.01
		3234	71.3	74.4	3.1	0.002	0.02	0.01	L0.01	L0.01	0.01
	from 45.7m to 46.4m some oxidized quartz veining	3235	74.4	77.4	3.0	0.003	0.02	0.01	L0.01	L0.01	0.01
		3236	77.4	80.6	3.2	0.002	0.02	L0.01	L0.01	L0.01	0.01
		3237	80.6	81.5	0.9	L0.002	0.02	L0.01	L0.01	L0.01	0.01

Core to beds @ 46.2m is 65°

DIAMOND DRILL RECORD

Page 3 of 9

PROPERTY ROUCHER DEBOULEHOLE NO. V81-9Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started _____ Completed _____Departure _____ Section _____ Dip -52°-30' Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						oz Au	oz Ag	% Cu	% Ni	% Co	% As
	48.8m to 49.9m quartz carbonate vein	3238	81.5	84.0	2.5	0.002	0.02	L0.01	L0.01	L0.01	0.01
	49.9m to 51.1m dark quartzites with	3239	84.0	85.7	1.7	L0.002	0.01	0.01	-	L0.01	-
51.1m	oxidized stained quartz	3240	85.7	86.2	0.5	L0.002	0.01	L0.01	L0.01	L0.01	0.01
51.1m	Dark quartzites with oxidized staining	3241	86.7	89.2	3.0	L0.002	0.01	0.01	-	L0.01	-
	in core and some quartz veins	3242	89.2	92.3	3.1	L0.002	0.02	L0.01	L0.01	L0.01	L0.01
	54.9m to 57.9m lighter grey quartzites	3243	92.3	94.7	2.4	L0.002	0.02	L0.01	L0.01	L0.01	L0.01
	55.2m to 56.1m dark to light grey banded	3244	94.7	97.8	3.1	0.002	0.02	L0.01	L0.01	L0.01	0.03
57.9m	quartzites	3245	97.8	100.8	3.0	L0.002	0.02	L0.01	L0.01	L0.01	0.01
57.9m	Dark quartzites with intrusions of quartz	3246	100.8	103.6	2.8	0.002	0.02	0.01	L0.01	L0.01	0.01
	blebs and veinlets	3247	103.6	106.7	3.1	0.003	0.02	L0.01	L0.01	L0.01	0.01
	1.5cm of quartz @ 60.0m	3248	106.7	109.7	3.0	0.002	L0.01	L0.01	L0.01	L0.01	0.01
	14cm vein of quartz with a little	3249	109.7	113.1	3.4	0.003	L0.01	L0.01	L0.01	L0.01	0.01
	Arsenopyrite @ 60.4m	3250	113.1	116.4	3.3	0.003	0.02	L0.01	L0.01	L0.01	0.01
	13cm vein of quartz with a little iron-	3251	116.4	119.5	3.1	0.002	0.01	L0.01	L0.01	L0.01	0.01
	pyrite & Arsenopyrite @ 67.5m	3252	119.5	122.5	3.0	0.004	0.02	0.01	-	0.02	-
62.9m	Little pegmatite bands with some ironpyrites	3253	122.5	125.6	3.1	L0.002	0.04	L0.01	L0.01	L0.01	0.02

between 57.9m and 59.9m

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULEHOLE NO. V81-9Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started _____ Completed _____Departure _____ Section _____ Dip -52° - 30' Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						OZ Au	OZ Ag	% Cu	% Ni	% Co	% As
62.9m	Medium to dark grey quartzites with small	3254	125.6	128.6	3.0	L0.002	0.02	L0.01	L0.01	L0.01	0.02
	Veinlets of quartz	3255	128.6	131.7	3.1	L0.002	0.02	L0.01	L0.01	L0.01	0.02
	63.5m to 24.0m dark to light bands quartzites	3256	131.7	134.7	3.0	L0.002	0.02	L0.01	L0.01	L0.01	0.02
	with core to beds @ 70°	3257	134.7	136.6	1.9	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	A few small intrusives of feldspar	3258	136.6	139.6	3.0	0.002	0.02	L0.01	L0.01	L0.01	0.02
	Porphyry at 65.2m to 65.4m	3259	139.6	142.6	3.0	0.002	0.01	L0.01	L0.01	L0.01	0.01
	Some Gypsum on fractures with a	3260	142.6	145.7	3.1	0.002	0.01	L0.01	L0.01	L0.01	0.01
	Yellowish Colour from 65.5m to 80.5m	3261	145.7	147.8	2.1	L0.002	0.02	0.01	L0.01	L0.01	0.02
	3cm quartz @ 76.4m	3262	147.8	149.7	1.9	L0.002	0.04	L0.01	L0.01	L0.01	0.02
	16cm feldspar porphyry @ 70.1m	3263	149.7	151.3	1.6	L0.002	0.02	L0.01	L0.01	L0.01	0.02
80.6m	32cm feldspar porphyry @ 71.3m	3264	151.3	151.9	0.6	0.002	0.02	L0.01	L0.01	L0.01	0.01
80.6m	greywacke	3265	151.9	154.8	2.9	L0.002	0.04	L0.01	L0.01	L0.01	0.02
81.5m		3266	154.8	157.9	3.1	0.002	0.04	0.01	L0.01	L0.01	0.01
81.5m	Brownish green argillites with some	3267	157.9	160.9	3.0	0.003	0.02	0.02	L0.01	L0.01	0.01
	Shist showing up throughout	3268	160.9	164.0	3.1	L0.002	0.02	L0.01	L0.01	L0.01	0.01
84.0m	Core broken up between 81.7m and 84.0m	3269	164.0	167.0	3.0	0.002	0.02	L0.01	L0.01	L0.01	0.02

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULEHOLE NO. V81-9Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started _____ Completed _____Departure _____ Section _____ Dip -52°-30' Drilled By _____ Logged By D.C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
						OZ Au	OZ Ag	% Cu	% Ni	% Co	% As
84.0	Greywacke	3270	167.0	170.0	3.0	0.002	0.02	LO.01	LO.01	LO.01	0.01
	1.5cm quartz vein at 84.7m. Core to beds @ 15°.	3271	170.0	172.8	2.8	0.002	0.02	LO.01	LO.01	LO.01	0.01
	85.7m to 86.2m. Ground up argillites	3272	172.8	175.9	3.1	0.002	0.04	Lo.01	LO.01	LO.01	0.01
	30 cm feldspar porphyry at 87.0m	3273	175.9	178.9	3.0	LO.002	0.04	LO.01	LO.01	LO.01	0.01
	93.3m to 93.8m medium sand colour granodiorite	3274	178.9	182.0	3.1	LO.002	0.02	LO.01	LO.01	LO.01	0.01
	3cm fault zone at 94.7m	3275	182.0	185.0	3.0	LO.002	0.02	LO.01	LO.01	LO.01	0.01
	Lighter grey grewacke at 95.9m to 97.5m	3276	185.0	188.1	3.1	0.003	0.02	LO.01	LO.01	LO.01	0.01
101.2m	30 cm Feldspar porphyry at 97.8m	3277	188.1	191.1	3.0	0.002	0.01	LO.01	LO.01	LO.01	0.01
101.2m	Dark Grey Quartzites	3278	191.1	194.1	3.0	0.002	0.02	LO.01	LO.01	LO.01	0.01
	102.6m to 102.7m argillites	3279	194.1	197.2	3.1	LO.002	0.02	LO.01	LO.01	LO.01	0.01
110.6m	13cm feldspar porphyry at 103.6m	3280	197.2	199.5	2.3	0.002	0.02	LO.01	LO.01	LO.01	0.01
110.6m	Greywacke	3281	199.5	201.9	2.4	LO.002	0.02	LO.01	LO.01	LO.01	0.01
116.4m	115.4m to 116.1m feldspar porphyry	3282	201.9	202.1	0.2	0.030	0.01	LO.01	0.01	LO.01	0.83
116.4m	Granodiorite with small veinlets of	3283	202.1	205.1	3.0	0.002	0.02	LO.01	LO.01	LO.01	0.01
	quartz	3284	205.1	207.9	2.8	0.002	0.02	LO.01	LO.01	LO.01	0.03
	122.5m to 122.7m argillites	3285	207.9	208.4	0.5	LO.002	0.01	LO.01	LO.01	LO.01	0.01

DIAMOND DRILL RECORD

PROPERTY ROUCHER DEBOULE

HOLE NO. V81-9

Latitude _____ Elevation 1315.0m Bearing S03°-00'W Depth 251.5m Started _____ Completed _____

Departure _____ Section _____ Dip -52°-30' Drilled By _____ Logged By D. C. Plecash

Depth Feet	Formation	Sample No.	From	To	Width	Assays					
	123.6m to 123.8m feldspar porphyry	3286	208.4	211.1	2.7	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	123.8m to 124.7m greywacke	3287	211.1	213.1	2.0	L0.002	0.01	L0.01	L0.01	L0.01	0.01
	125.3m to 125.6m feldspar porphyry	3288	213.1	215.0	1.0	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	16cm feldspar porphyry at 128.2m	3289	215.0	217.0	2.0	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	129.2m to 129.5m more quartz stringers	3290	217.0	217.9	0.9	L0.002	0.04	L0.01	L0.01	L0.01	0.01
	135.9m to 136.6m mixed quartz with a little	3291	217.9	221.0	3.1	L0.002	0.04	L0.01	L0.01	L0.01	0.01
136.6m	feldspar porphyry and chlorite	3292	221.0	222.2	1.2	L0.002	0.02	L0.01	L0.01	L0.01	0.02
136.6m	Greywacke	3293	222.2	225.3	3.1	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	138.4m to 138.5m granodiorite	3294	225.3	227.7	2.4	0.002	0.05	L0.01	L0.01	L0.01	0.01
	141.1m to 141.4m series of quartz veins	3295	227.7	230.7	3.0	L0.002	0.01	L0.01	L0.01	L0.01	0.01
	Core to beds @ 65°.	3296	230.7	233.0	2.3	0.002	0.01	L0.01	L0.01	L0.01	0.01
	8cm feldspar porphyry @ 139.6m	3297	233.0	235.6	2.5	0.002	0.02	L0.01	L0.01	L0.01	0.02
	145.1m to 145.3m feldspar porphyry	3298	235.6	238.4	2.8	L0.002	0.02	L0.01	L0.01	L0.01	0.01
	145.4m to 145.9m darker greywacke with little	3299	238.4	241.7	3.3	L0.002	0.01	L0.01	L0.01	L0.01	0.01
	Quartz Stringers	3300	241.7	244.8	3.1	L0.002	0.01	L0.01	L0.01	L0.01	0.02
	147.5m to 148m darker greywacke with little quartz										

stringers



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash

Certificate of Assay

File No. 3936E-6-1

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted

drill core

samples.

Sample Identification	GOLD	SILVER	COPPER		NICKEL		COBALT		ARSENIC			
	Ounces Per Ton	Ounces Per Ton	Percent	Cu	Percent	Ni	Percent	Co	Percent	AS	Percent	Percent
<i>DDH. V81-9</i> 3205	L 0.002	0.01	0.01		L 0.01		L 0.01		L 0.01		30	39
3206	L 0.002	0.02	0.04		L 0.01		L 0.01		0.01		39	42
3207	L 0.002	0.02	L 0.01		L 0.01		L 0.01		0.01		42	51
3208	L 0.002	0.02	0.01		L 0.01		L 0.01		0.01		51	62
3209	L 0.002	0.01	0.01		L 0.01		L 0.01		0.01		62	67.5
3210	L 0.002	0.02	0.01		L 0.01		L 0.01		0.01		67.5	70
3211	L 0.002	0.02	L 0.01		L 0.01		L 0.01		0.01		70	77
3212	L 0.002	0.02	0.01		L 0.01		L 0.01		0.01		77	83
3213	L 0.002	0.02	0.01		L 0.01		L 0.01		0.01		83	73
3215	L 0.002	0.02	0.03		L 0.01		L 0.01		0.01		93	103
3216	L 0.002	0.02	0.01		L 0.01		L 0.01		L 0.01		103	113
3217	L 0.002	0.02	L 0.01		L 0.01		L 0.01		0.01		113	120
3218	L 0.002	0.02	L 0.01		L 0.01		L 0.01		0.01		120	126.8
3219	L 0.002	0.02	0.01		L 0.01		L 0.01		0.01		126.8	130.0
3220	L 0.002	0.02	L 0.01		L 0.01		L 0.01		0.02		130	140.0

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

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1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telex 04 54210

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash

Certificate of Assay

File No. 3936E-6-2

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted

Drill core

samples.

Sample Identification	GOLD	SILVER	COPPER	NICKEL	COBALT	ARSENIC		
	Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent
V81-9								
3221	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		140 150
3222	L 0.002	0.02	L 0.01	L 0.01	L 0.01	L 0.01		120 150 152.3
3223	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		152.2 160
3224	L 0.002	0.02	0.01	L 0.01	L 0.01	0.01		160 163.6
3225	L 0.002	0.02	0.01	L 0.01	L 0.01	0.01		163.6 167.6
3226	L 0.002	0.02	0.01	L 0.01	L 0.01	L 0.01		167.6 175.3
3227	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		175.3 180.0
3228	L 0.002	0.01	0.01	L 0.01	L 0.01	0.01		180 190
3229	0.002	0.01	0.01	L 0.01	L 0.01	0.01		190 197
3231	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		197 206.5
3232	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3233	L 0.002	0.02	0.01	L 0.01	L 0.01	0.01		
3234	0.002	0.02	0.01	L 0.01	L 0.01	0.01		
3235	0.003	0.02	0.01	L 0.01	L 0.01	0.01		
3236	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		

L = Less than

Note Pulps retained three months.

Rejects retained two weeks

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Form No 13 C

CAN TEST LTD.

Provincial Assayer

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Certificate of Assay

File No. 3936E-6-3

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	COPPER	NICKEL	COBALT	ARSENIC	Percent	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As		
VBI-9	3237	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3238	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3240	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01	
	3242	L 0.002	0.02	L 0.01	L 0.01	L 0.01	L 0.01	
	3244	0.002	0.02	L 0.01	L 0.01	L 0.01	0.03	
	3245	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3246	0.002	0.02	0.01	L 0.01	L 0.01	0.01	
	3247	0.003	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3248	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3249	0.003	0.04	L 0.01	L 0.01	L 0.01	0.01	
	3250	0.003	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3251	0.002	0.01	L 0.01	L 0.01	L 0.01	0.01	
	3253	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.02	
	3254	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.02	
	3255	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.02	

L = Less than

Note. Pulps retained three months.

Rejects retained two weeks.

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Form No 13-C

CAN TEST LTD.

Provincial Assayer

To.

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telex 04 54210

Certificate of Assay

File No. 3936E-6-4

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted

drill core samples.

Sample Identification	GOLD	SILVER	COPPER	NICKEL	COBALT	ARSENIC		
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As	Percent	Percent
V21-9 3256	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3257	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3258	0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3259	0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3260	0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3261	L 0.002	0.02	0.01	L 0.01	L 0.01	0.02		
3262	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.02		
3263	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3264	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3265	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.02		
3266	0.002	0.04	0.01	L 0.01	L 0.01	0.01		
3267	0.003	0.02	0.02	L 0.01	L 0.01	0.01		
3268	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3269	0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3270	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		

L = Less than

Note Pulps retained three months.

Rejects retained two weeks.

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CAN TEST LTD.

Provincial Assayer

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash



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1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telex 04 542 TD

Certificate of Assay

File No. 3936E-6-5

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	COPPER	NICKEL	COBALT	ARSENIC		
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As	Percent	Percent
V81-9	3271	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3272	0.002	0.04	L 0.01	L 0.01	L 0.01	0.01	
	3273	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.01	
	3274	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3275	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3276	0.003	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3277	0.002	0.01	L 0.01	L 0.01	L 0.01	0.01	
	3278	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3279	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3280	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3281	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3282	0.030	0.01	L 0.01	0.01	L 0.01	0.83	
	3283	0.002	0.02	L 0.01	L 0.01	L 0.01	0.01	
	3284	0.002	0.02	L 0.01	L 0.01	L 0.01	0.03	
	3285	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01	

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

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Form No. 13-C

CAN TEST LTD.

Provincial Assayer

10.

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ 2N0

Attention: Mr. Bud Plecash

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254 7278

Telex 04 54210

Certificate of Assay

File No. 3936E-6-6

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	COPPER	NICKEL	COBALT	ARSENIC	Percent	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Ni	Percent Co	Percent As		
V81-9 3286	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3287	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3288	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3289	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3290	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.01		
3291	L 0.002	0.04	L 0.01	L 0.01	L 0.01	0.01		
3292	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3293	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3294	0.002	0.05	L 0.01	L 0.01	L 0.01	0.01		
3295	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3296	0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3297	0.002	0.02	L 0.01	L 0.01	L 0.01	0.02		
3298	L 0.002	0.02	L 0.01	L 0.01	L 0.01	0.01		
3299	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.01		
3300	L 0.002	0.01	L 0.01	L 0.01	L 0.01	0.02		

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

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Form No. 13-C

CAN TEST LTD.

Provincial Assayer

to



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254 7274

Telex 04 54210

D. Groot Logging Ltd.

P.O. Box 520

Smithers, B.C.

VOJ - 2NO

Attention: Mr. Bud Plecash

Certificate of Assay

File No. 3936E-6-7

Date Nov. 30, 1981

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	COPPER		NICKEL		COBALT	ARSENIC	Percent	Percent
	Ounces Per Ton	Ounces Per Ton	Percent	Cu	Percent	Ni	Percent	Co		
V81-9 3301 3302 3303	L 0.002	0.01	L 0.01		L 0.01		L 0.01	0.04		
	0.002	0.02	L 0.01		L 0.01		L 0.01	0.01		
	L 0.002	0.01	L 0.01		L 0.01		L 0.01	0.01		
L = Less than										

Note Pulps retained three months.

Rejects retained two weeks

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Form No. 13-C

CAN TEST LTD.

[Signature]
Provincial Assayer

To



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254 1278

Telex 04-54210

D. Groot Logging Ltd.,
P.O. Box 520
Smithers, B.C.
VOJ 2N0

Certificate of Assay

File No. 4617E-6

Date December 23, 1981

Attention: Mr. Bud Plecash

We hereby Certify that the following are the results of assays made by us upon submitted drill core samples.

Sample Identification	GOLD	SILVER	COPPER	LEAD	ZINC	COBALT	TUNGSTEN	Percent
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Pb	Percent Zn	Percent Co	Percent W	
<i>VB1-9</i>								
3214 <i>28.3M - 31.4M</i>	LO.002	0.02	0.02	0.02	0.02	0.01	0.011	
3239 <i>84.0M - 85.7M</i>	LO.002	0.01	0.01	0.01	0.02	0.01	0.010	
3241 <i>86.7M - 89.2M</i>	LO.002	0.01	0.01	LO.01	0.01	LO.01	0.010	
3252 <i>119.5M - 122.5M</i>	0.004	0.02	0.01	LO.01	0.02	0.02	0.012	

Note Pulps retained three months.

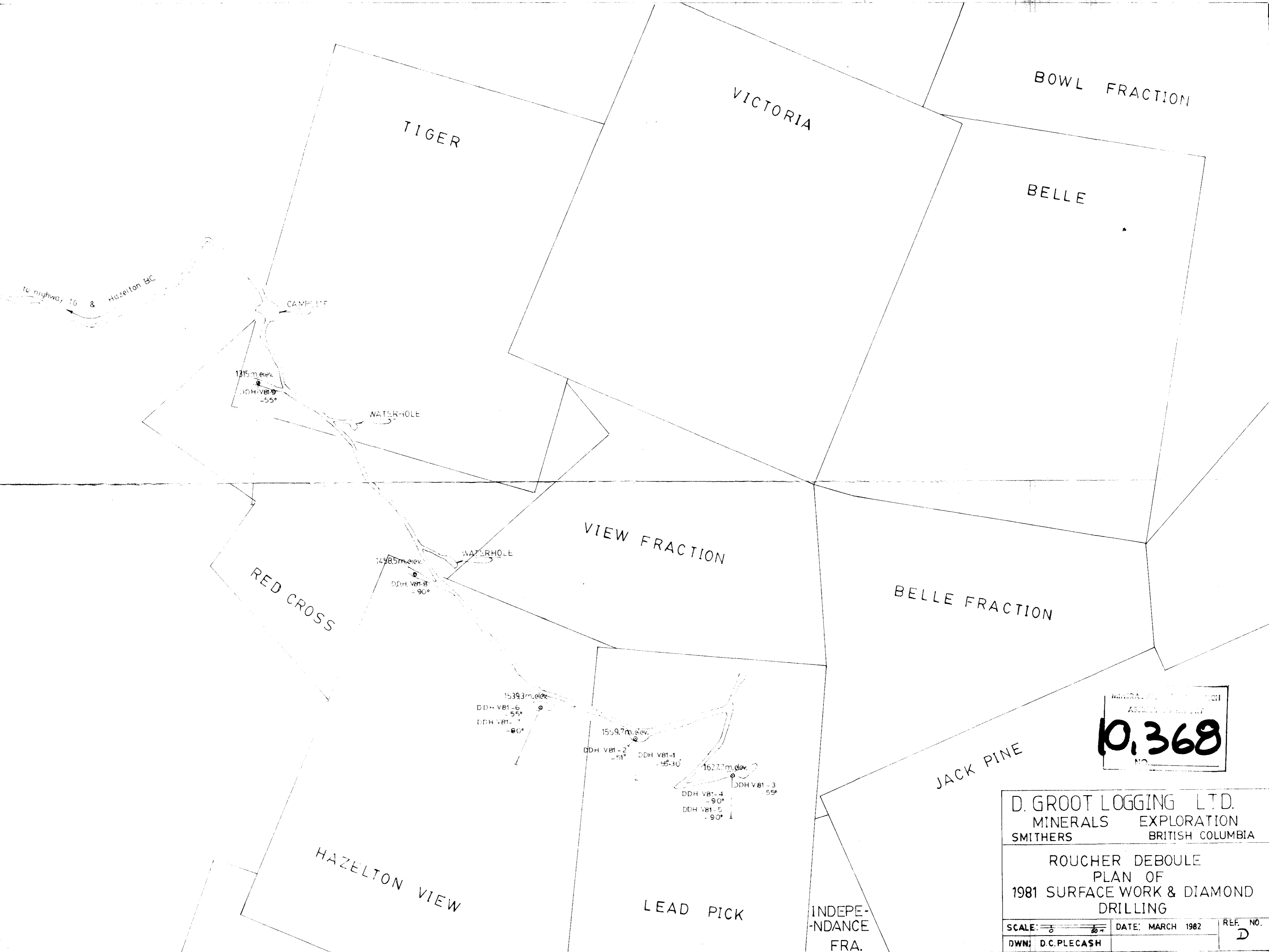
Rejects retained two weeks.

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Form No 13 C

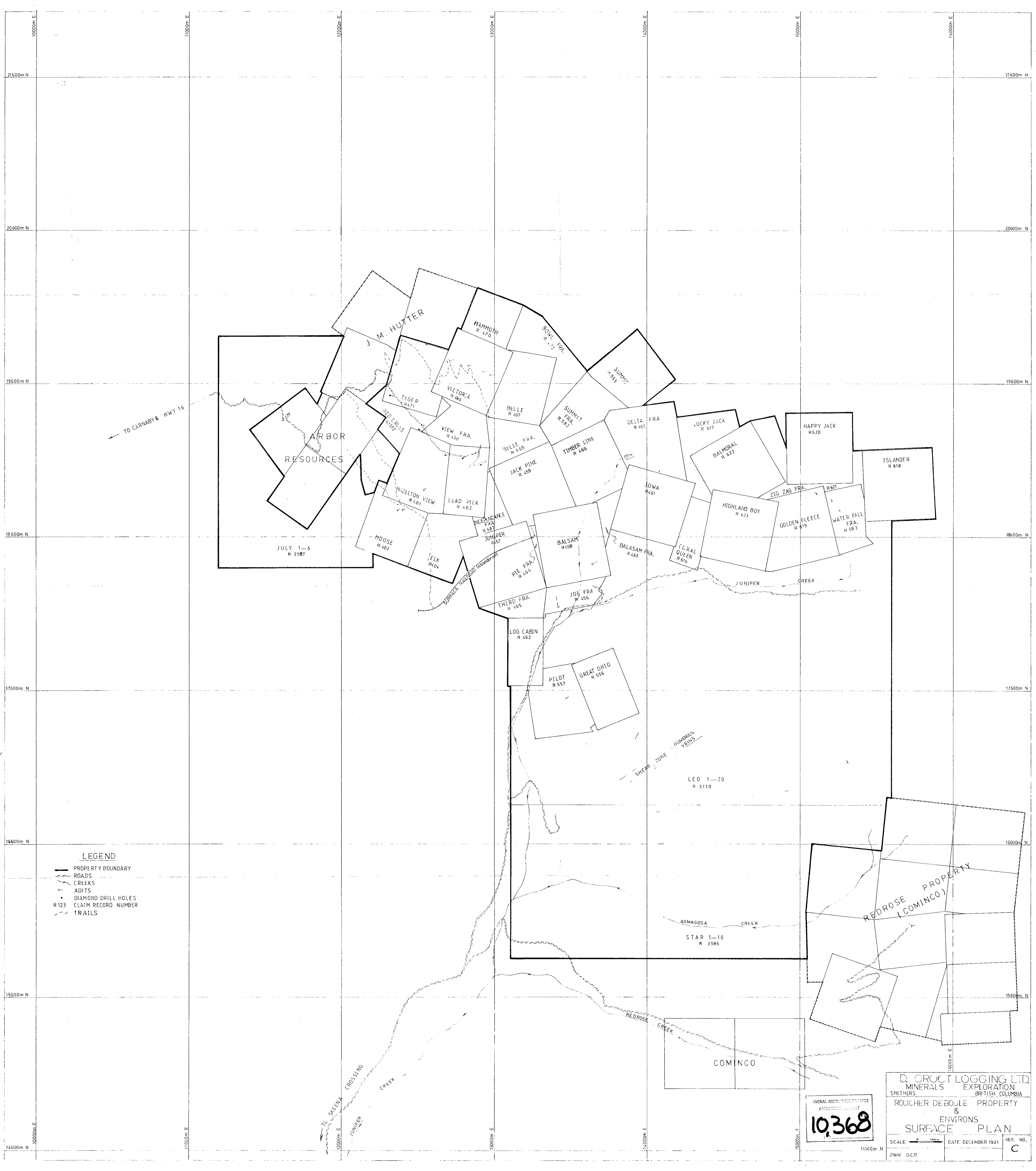
CAN TEST LTD.

Provincial Assayer

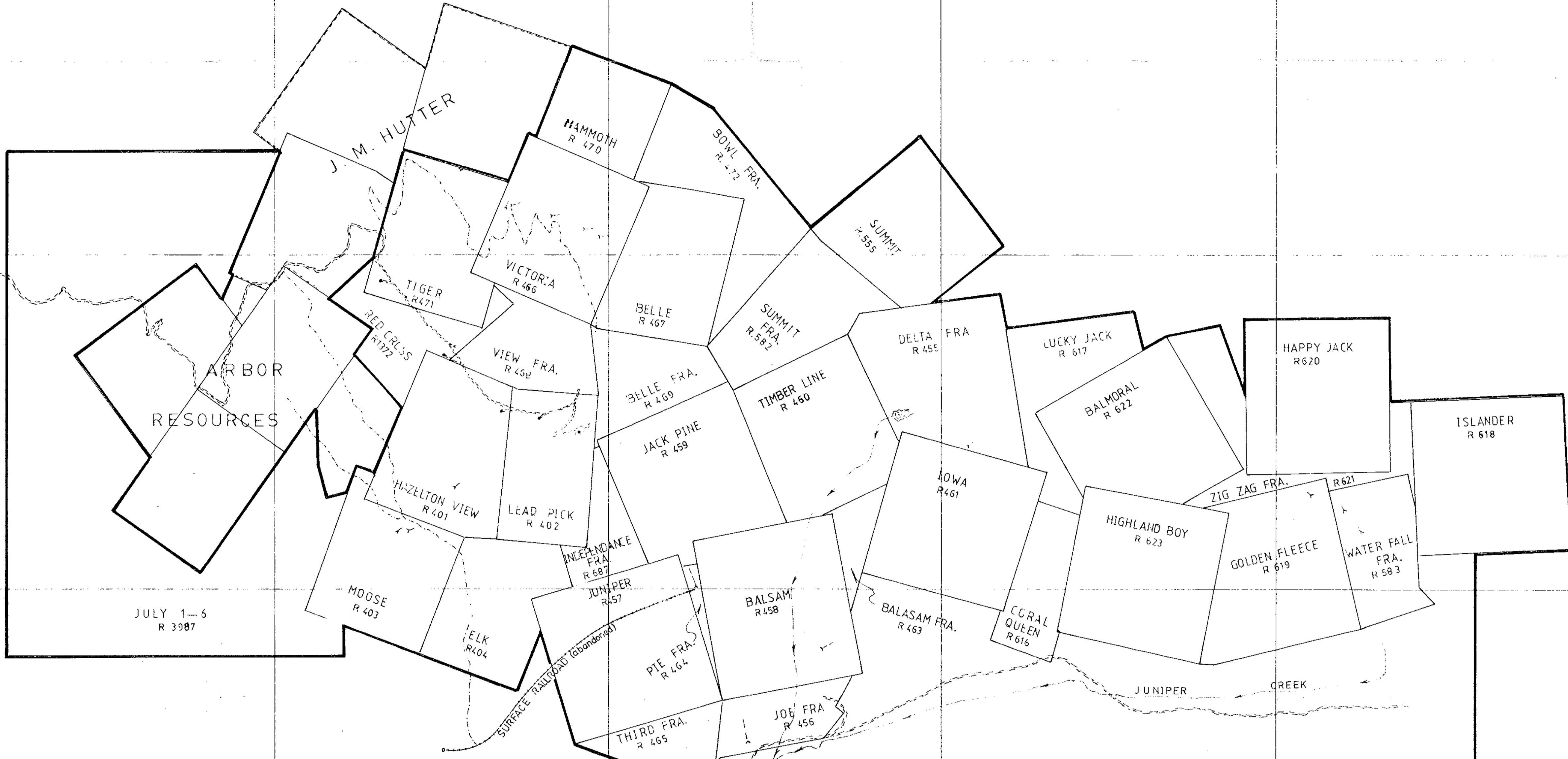


MINERAL EXPLORATION
 ASSOCIATION
0,368
 NO.

D. GROOT LOGGING LTD.		MINERALS EXPLORATION	
SMITHERS		BRITISH COLUMBIA	
ROUCHER DEBOULE PLAN OF 1981 SURFACE WORK & DIAMOND DRILLING			
SCALE:	DATE: MARCH 1982	REF. NO. D	
DWN: D.C. PLECA SH			



TO CARNABY & HWY 16



- LEGEND**
- PROPERTY BOUNDARY
 - ROADS
 - CREEKS
 - ADITS
 - DIAMOND DRILL HOLES
 - R 123 CLAIM RECORD NUMBER
 - - - TRAILS

SHEAR ZONE - NUMEROUS VEINS

LEO 1-20 R 3110

STAR 1-10 R 3986

MINERAL RESOURCES DIVISION
 10,368

D. GROFF LOGGING LTD.
 MINERALS EXPLORATION
 SMITHERS BRITISH COLUMBIA

ROUCHER DEBOULE PROPERTY & ENVIRONS SURFACE PLAN

SCALE: 1" = 100' DATE: DECEMBER 1981 REF. NO. C
 DWN: D.C.P.