

# GM 48783

REPORT ON GOLD EXPLORATION DURING THE 1988 SUMMER FIELD SEASON, EASTMAIN RIVER GREENSTONE BELT

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Énergie et Ressources  
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Québec 

Report on  
Gold Exploration During the  
1988 Summer Field Season  
Eastmain River Greenstone Belt  
Northern Quebec

for  
The Eastmain Syndicate



**Ministère de l'Énergie et des Ressources**  
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6465  
69160 6274  
T.J. Beesley (P.Eng.)  
Geological Services Inc.

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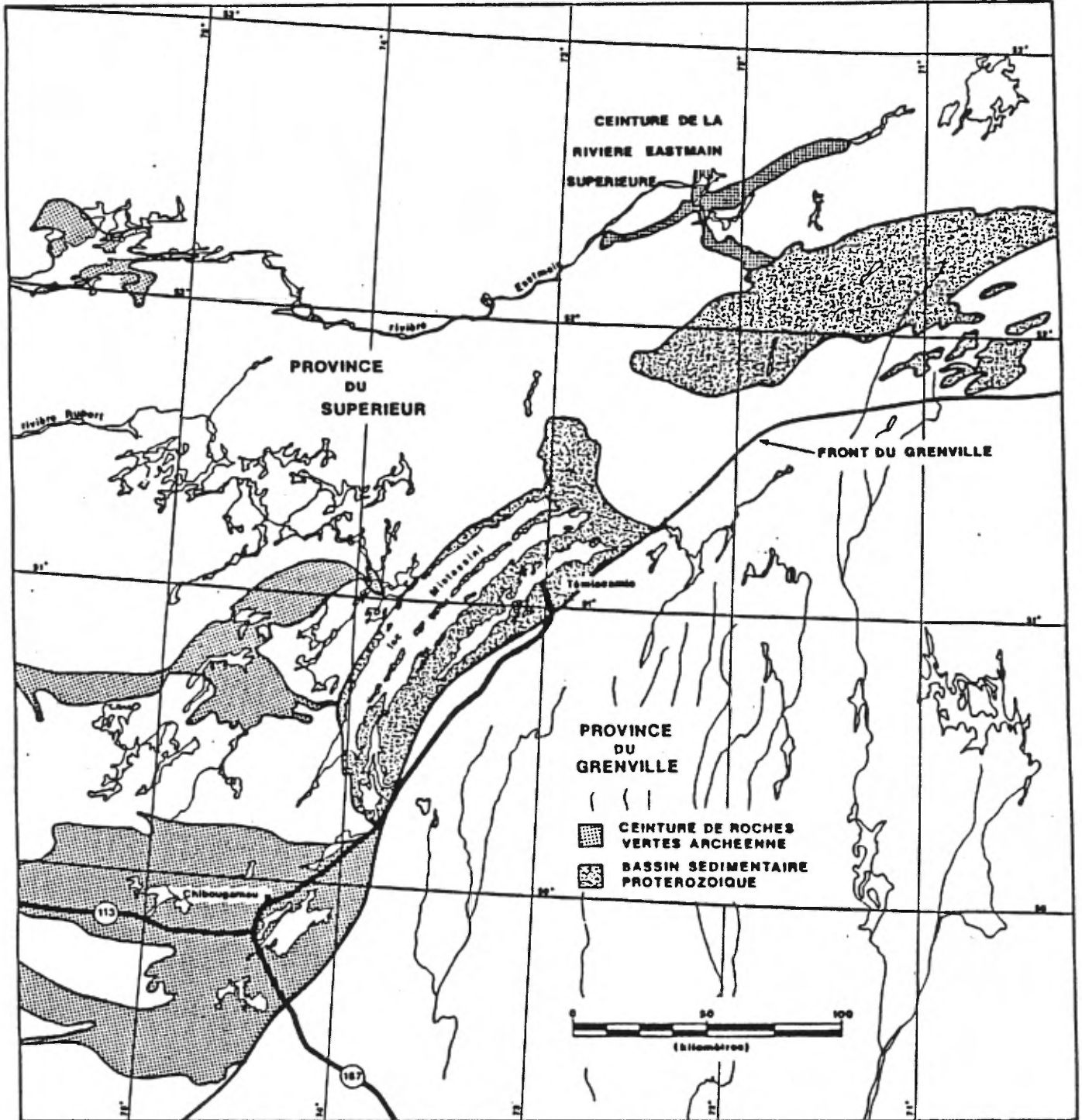


Figure 1: Location Map  
(After Couture (2))

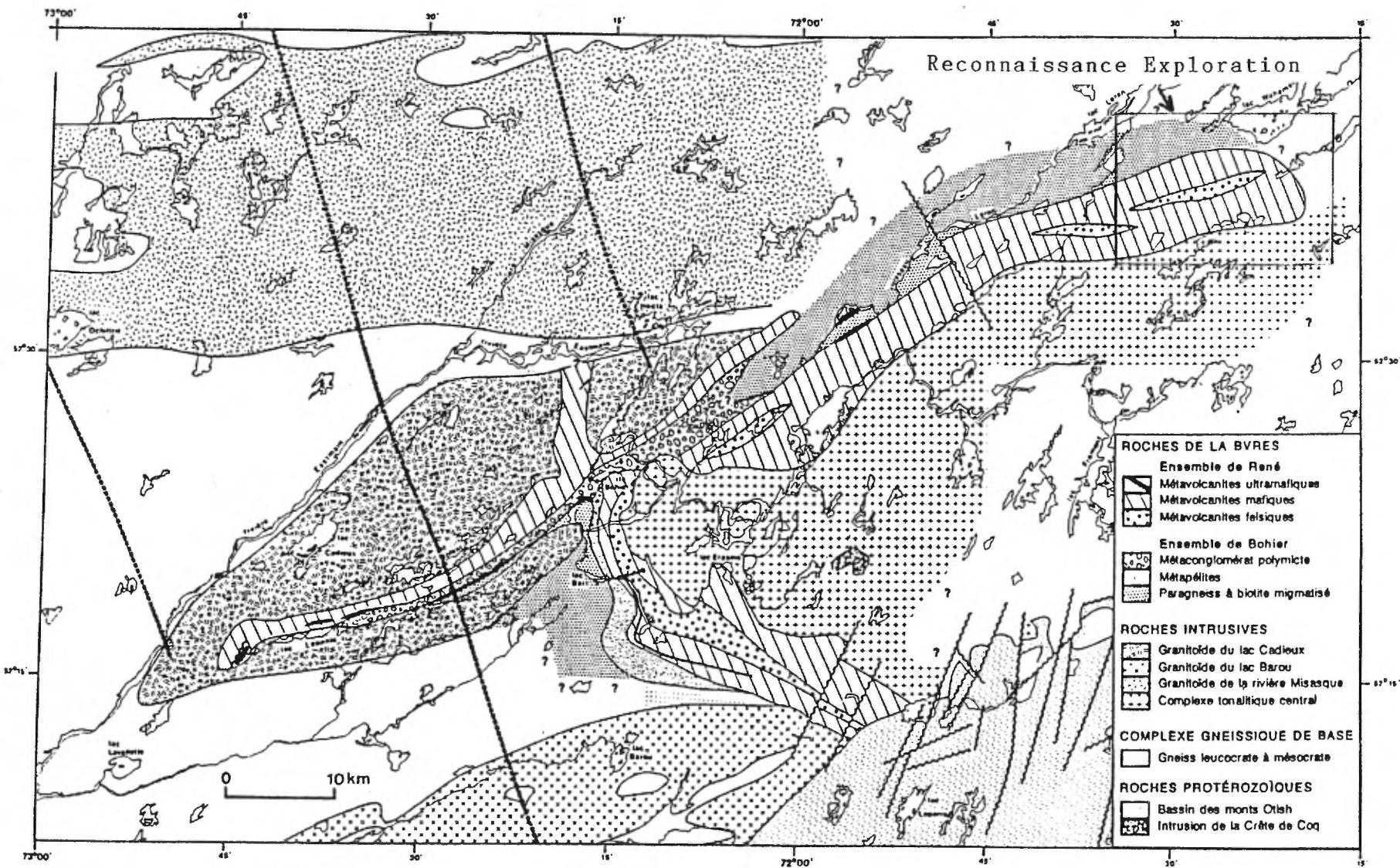


Figure 2: Geological Map Eastmain  
River Greenstone Belt  
(after Couture (2))

## Summary

In May, 1988, the Eastmain Syndicate, comprised equally of Battle Mountain Gold (Canada) Inc., Mingold Resources Inc., and Quill Resources Ltd., staked a total of 352 mineral claims in three blocks in the gold prospective Eastmain River Greenstone Belt 200 miles north of Chibougamau in Northern Quebec where a joint venture of PlacerDome and MSV Resources had outlined a gold deposit of 1.12 million tons grading 0.45 oz/ton. Between June and September the Syndicate conducted exploration consisting of geological mapping, prospecting and sampling, grid establishment and geophysical VLF-EM surveying, and helicopter-supported reconnaissance exploration. In September an additional 65 claims were staked to protect followup targets established in one of the blocks.

Sequences of rock analogous to the 'mine series' at the deposit ( a 20-30 m sequence of rhyolite tuff and mafic tuff intruded by ultramafic (proxentite) with chert and silicification with copper-bearing sulphides) were noted in all three claim blocks, often associated with VLF-EM conductors of sulphide origin and threshold anomalous amounts of gold and indicator metallic elements.

Targets for detailed prospecting followup were outlined in each of the three claim blocks.



## Introduction

In May 1988 the Eastmain Syndicate, comprised equally of Battle Mountain (Canada) Inc., Mingold Resources Inc. and Quill Resources Ltd., staked a total of 352 mineral claims in three blocks in the gold prospective Eastmain River Archean volcano-sedimentary belt hosting the PlacerDome-MSV gold deposit, 200 miles north of Chibougamau in northern Quebec. Preliminary reconnaissance and detailed followup exploration for gold were carried out over these properties by a 5-man party between June 28 and September 14, 1988, and the results of this exploration are described in this report.

The three mineral claim blocks were geologically mapped, prospected and sampled and reconnaissance VLF-EM geophysically surveyed at a mineral claim scale. Areas of geological and geophysical interest defined were hip chain and compass gridded to guide detailed followup geological mapping, prospecting and sampling and VLF-EM surveying. Twelve followup grids were established, nine in the 235-claim West Block 20 km to the west of the PlacerDome-MSV deposit, and three in the Lac Rene (39 claims) and Lac Clement (78 claims) Blocks 5 km to the west of the deposit. A total of 478 samples of rock wa taken, assayed for gold, and analysed by 24-element ICP. A helicopter reconnaissance exploration of a 300 square km area covering the northeast end of the Eastmain River greenstone belt was conducted over a 5-day period in early September. An additional 65 mineral claims were staked in September, 1988, to tie onto the northeast part of the West Block to protect mineralized targets delineated during the field program, bringing the total landholding in this block to 300 mineral claims.

## Property, Location and Access

The property consists of a total of 417 16 ha.(40-acre) mineral claims in three claim blocks; the West (300 claims) 20 km west of the PlacerDome-MSV deposit and 15 km west of the other two blocks, the Lac Rene (39 claims) 5km west of the deposit and 1 km north of the Lac Clement Block (78 claims)(Dwg. No. 1). The mineral claims comprising the Eastmain Syndicate landholdings are listed in accompanying Table 1. The mineral claims are all in good standing; the 335 staked in May 1988 until May 1989, when assessment work from the 1988 summer field program will have to be applied, and the 65 claims staked in September 1988 are in good standing until September 1990, under the revised Quebec Mining Act.

The property is located 200 miles NNE of Chibougamau and 100 miles north of the float airbase at Temiscamie. Temiscamie is located 100 miles north of Chibougamau near the north end of the all-weather road from Chibougamau to Lac Albanel.(Fig. 1)

Access is via air, by float or wheel-ski fixed wing aircraft from Temiscamie, when the base is operational during the summer or winter months, or from Chibougamau.

Table 1:

## EASTMAIN SYNDICATE

## List of Mineral Claims

<u>West Block</u>	Townships 2331, 2332, 2432, 2433				
469884	1-5	469911	1-5	469945	1-5
469885	1-5	469915	1-5	469946	1-5
469886	1-5	469916	1-5	469947	1-5
469887	1-5	469917	1-5	469948	1-5
469888	1-5	469918	1-5	469949	1-5
469889	1-5	469919	1-5	469950	1-5
469880	1-5	469920	1-5	469951	1-5
469894	1-5	469921	1-5	471015	1-5
469895	1-5	469925	1-5	471016	1-5
469896	1-5	469926	1-5	471017	1-5
469897	1-5	469927	1-5	471018	1-5
469898	1-5	469928	1-5	471019	1-5
469899	1-5	469929	1-5	472959	1-5
469900	1-5	469930	1-5	472960	1-5
469904	1-5	469931	1-5	472961	1-5
469906	1-5	469940	1-5	472962	1-5
469907	1-5	469941	1-5	472969	1-5
469908	1-5	469942	1-5	472970	1-5
469909	1-5	469943	1-5	472971	1-5
469910	1-5	469944	1-5	472972	1-5
				300 claims	
<u>East Blocks</u>					
<u>Lac Clement</u>	Township 2334				
469901	1-5	469923	1-5	469938	1-5
469902	1-5	469924	1-5	469939	1-5
469903	1-5	469935	1-5	469952	1-5
469905	1-5	469936	1-5	469953	1-5
469922	1-5	469937	1-5	469954	1-5
				469958	1-3
				78 claims	
<u>Lac Rene</u>	Townships 2433, 2434				
469892	1-5	469914	1-5	469934	1-5
469893	1-5	469932	1-5	469957	1-5
469913	1-4	469933	1-5		
				39 claims	

## General Geology

The Eastmain River greenstone belt is 100 km-long in an ENE direction and 40 km wide at its widest and consists of two arcuate metavolcanic-metasedimentary folds wrapped around granitic to granodioritic intrusives (Fig. 2), the whole sequence resting on an older metamorphic terrain. The volcanic-sedimentary rocks are tightly folded into overturned synclinal structures which in turn appear refolded into the broad arcuate features. The western end of the belt, overlain by the Eastmain Syndicate West Block, occurs in a tightly folded north-dipping overturned syncline with a structural deformation zone superimposed on the intrusive contact with granodiorite on the north side.

The volcanic rocks are predominantly mafic in composition, massive to pillowed, in contact with intermediate tuffs and fine to coarse clastic metasediments of uncertain age relation. Mafic to ultramafic intrusive rocks, gabbros and pyroxenites, intrude the mafic volcanics locally parallel to strike. At the western end of the belt ultramafic flows (komatiites) are interlayered with the mafic volcanics, exhibiting well-developed spinifex textures locally. A thin rhyolitic tuffaceous unit on a scale of tens of metres also occurs within the mafic volcanics in places, generally proximal to pyroxenite sills. Persistent sulphide horizons occur as well trending with the mafic volcanics. The thickest and most persistent sulphide units, 3-5m in width, are associated with ultramafic flows in the western end of the belt and mafic and ultramafic intrusive sills towards the centre of the belt in the vicinity of the deposit.

In the western end of the belt a tight synclinal fold has an axis dipping north parallel to the tightly folded stratigraphy at angles of 40-50 degrees. In the south-central part of the belt in the vicinity of the deposit the metavolcanic and metasedimentary rocks are folded into an overturned syncline dipping to the northeast at 40-50 degrees. The northeastern arm of the belt is devoid of ultramafic flows and intrusives, and consists chiefly of mafic metavolcanics, intermediate pyroclastics and oxide and sulphide iron formation. This arm is folded into a broad overturned syncline, at the northeast end dipping 60-70 degrees to the north.

## Economic Geology

The PlacerDome-MSV deposit in mid-1988 was reported to contain indicated, inferred and estimated reserves of 1.1 million tons grading 0.46 oz/ton gold with 0.26% copper and approximately 1/2 oz/ton silver. The deposit is stratiform, from 3-10 m in thickness occurring in a massive sulphide lens associated with chert in a peculiar sequence of rhyolite tuff, mafic tuff and pyroxenite within a thick mafic metavolcanic sequence generally garnetiferous in the vicinity of the ore body. The origin of the deposit has been described as either volcanogenic or structural. Recent opinion (Couture, personal communication) suggests that

TABLE OF FORMATIONS

Intrusive Rocks

Proterozoic

Diabase

Intrusive Contact

Archean

Granodiorite

?Intrusive Contact?

Pegmatite

Granite

Intrusive Contact

Gabbro

Pyroxenite

Intrusive Contact

Metavolcanics

Rhyolite Tuff

Intermediate Tuff

Basalt

Ultramafic Flow-Komatiite

Metasediments

Fine-grained metasediment

Conglomerate

Metamorphics

Paragneiss

the deposit is of hydrothermal origin, with fluids from the younger, unfoliated Central Granodiorite (Tonalite) permeating a shear zone which was aligned with the regional schistosity during previous deformation. The presence of gold mineralization in later NE-trending faults and shears at two locations northwest of the ore deposit supports this interpretation.

The ore body has been divided into three zones, A, B, and C, which occur as distinct EM conductors over an interval of two kilometres along a magnetic trend following the country rock. The ore lenses occur in an overturned volcanic sequence dipping 35-55 degrees to the northeast. The ore is contained in a siliceous chert unit, laminated to brecciated, which contains 10-30 percent sulphides with pyrrhotite > pyrite > chalcopyrite, with minor amounts of sphalerite. Gold occurs with and within chalcopyrite, with lesser amounts of arsenopyrite and tetrahedrite. Alteration features consist of intense silica "grid" alteration, biotitization, sericitization and locally epidote and K-feldspar alteration. Potassium and magnesium flooding are represented by sericite, Mg rich biotite and Cr mica. CO<sub>2</sub> introduction is evidenced by carbonate, epidote, clinozoisite and clinopyroxene, and locally andradite garnets. A late retrograde Mg chlorite is developed at the expense of biotite and calcic amphibole.

The particular rock sequence comprising the deposit 'Mine Series', namely rhyolite tuff, mafic tuff, pyroxenite and sulphides within garnetiferous basalt was noted at two locations during the 1988 exploration; at Grid G on Lac Jim south of Lac Dolent in the eastern part of the West Block, and on the Pointer Bay Grid in the Lac Rene Block, and is likely present along strike in overburden-covered areas. In addition the rhyolite tuff unit was mapped in association with pyroxenites and gossans over several kilometres in the eastern half of the West Block and in the Lac Clement Block. Silicified chert and alteration minerals carbonate, clinopyroxene, sericite and chlorite are present locally with komatiites and gossans on Grid A at Lac Lepante in the western half of the West Block. Development of Cr mica is particularly extensive with rhyolite tuff and gossan on Grids G and H on Lac Jim, south of Lac Dolent in the eastern half of the West Block. A shallow subcrop of silicified felsic metavolcanic exhibiting strong "grid" alteration was uncovered in the floor of a valley adjacent to a VLF-EM conductor on the Pointer Bay Grid.

## Exploration History

The earliest prospecting and exploration evident in the belt appears to have taken place on what is now Grid H on the east shore of Lac Jim, south of Lac Dolent in the West Block. Four old claim posts together each with single 5-digit claim tags (presumably 1940's or 1930's vintage) were noted several hundred metres east of extensive trenches in gossanous, siliceous Cr mica-rich felsic metavolcanics on the east shore of the lake. These claims predate later 5-digit tags and two generations of 6-digit tags on posts covering gossans in ultramafic rocks adjacent to rhyolite tuffs on the south shore of Lac Dolent 1.5 km to the west of Lac Jim.

The Lac Leran copper showing lies 25 km northeast of the MSV-PlacerDome deposit, in basic metavolcanics in the northeast arm of the belt, and was tested by trenching and drilling by a number of mining companies in the 1950's and 1960's.

In the mid-1960's a company named Fort George drilled several X-ray diamond drill holes in gossanous ultramafic metavolcanics (komatiite) at the extreme western end of the Syndicate West Block, intersecting sulphides (pyrrhotite, pyrite, and minor chalcopyrite).

In 1969 Canex Placer flew an airborne magnetic-electromagnetic survey over mafic metavolcanics wrapped around the west side of the younger granodiorite intrusion in the central part of the belt. A single line overburden-covered magnetic-electromagnetic airborne anomaly was located on the ground and drilled in 1970, resulting in an intersection of 1.5 m of sulphide grading 13.71 gt Au, 20.22 gt Ag and 0.33% Cu in what is now part of the A Zone, which was not considered significant under conditions prevailing at the time (3). In 1974 the ground tested by Placer in 1969-70 was either optioned or restaked by Nordore. Airborne and ground geophysical surveys were carried out along with a limited amount of drilling. One of the Nordore holes intersected 6 m of low grade gold on the shoulder of what is now the B Zone. As this was the best intersection the project was terminated and the ground was allowed to lapse. Placer returned to the area in 1981 under the improved conditions for gold and restaked the A Zone. Ground geophysics in that year outlined the A, B, and C Zones. In 1982 the B Zone was discovered at a depth of 100 metres, targetting the geophysically indicated northwest plunge of the EM conductor. This hole, 82-1, intersected a 3 m-wide sulphide zone grading 8.34 gt Au, 10.16 gt Ag and 0.21 percent copper. By the end of 1982 reserves of 750,000 tons had been indicated in the A and B Zones and the present land holding of about 1,000 claims around the west end of the granodiorite had been established. Exploration and diamond drilling has continued steadily from 1981 through 1988. In 1983 Eldor entered a joint venture with Placer on the property and in that year conducted comprehensive airborne geophysical and ground followup geological mapping, prospecting and sampling surveys

over a 30 km-long strip comprising the central part of the northeast arm of the belt, from the northeast extent of the Placer ground. Gold results from rock sampling were low (maximum 160 ppb) and it was noted that no ultramafic rocks were encountered during the program. In 1987 Placer announced initial results from an underground sampling program from a decline sunk on the B Zone. Channel samples from each blast face in a drift assayed an average 0.57 oz/ton Au across a 7-ft. wide zone and along 344.5 ft. of strike, with 0.65 oz/ton Ag, confirming earlier drill results. Seven grids were established to guide ground geophysical followup of airborne anomalies in the Placer claim block on the north contact of the granodiorite, 13 km north of the deposit. Single followup diamond drill holes were sunk on four of these grids in 1987. In each case the drill holes intersected uniform basaltic metavolcanics containing barren pyrrhotite and pyrite.

In 1974 Inco Ltd. flew their airborne magnetic-electromagnetic system over the entire Eastmain River Greenstone Belt, in a joint venture with Uranerz, who reconnaissance explored the Otish Mountain Proterozoic rocks for uranium, and James Bay Development Corp. Selected combined magnetic-electromagnetic anomalies were followed up on the ground by trenching and X-ray diamond drilling. Although no public record of this work exists, activity appears to have been heavy around Grid A at Lac Lepante and Grid E on the south shore of Lac Dolent in the West Block, and to the south and southeast of Lac Clement in the Lac Clement Block.

In 1982 Placer established seven grids several kilometres to the south of the deposit to guide exploration over an overburden-covered formational EM conductor trending EW. The westernmost of these grids (Placer Grid A) covered the eastern and central parts of the Lac Clement Block. Magnetic and electromagnetic (MaxMin) surveys were conducted on Grid A and the grid was geologically mapped and rock sampled (no anomalous gold results).

Airborne magnetic and electromagnetic surveys were flown by Aerodat for Placer in 1983 over what are now the Lac Rene and the Lac Clement (northwest half) Blocks, and followed up by ground reconnaissance geological mapping and prospecting and sampling. Anomalous gold (310 ppb) and copper (720 ppm) results were obtained from separate locations on what is now the Pointer Bay Grid at Lac Rene, and the acquisition of this ground by staking was recommended by the Placer geologist.

In 1984 ground magnetic and electromagnetic (VLF and MaxMin) surveys were run over grids established on what is now the Lac Rene Block (South Atlantic Ventures) and the ground between what is now the Lac Rene and Lac Clement Blocks (Eurocan Ventures). No followup is reported.

## Activities Of Other Companies-1988

A total of 100 mineral claims was staked adjacent to and east of the Lac Clement Block by Watts Mining Ltd. in June. A total of 500 mineral claims was staked by Corona Corp. in July and August to cover Archean metavolcanic rocks south and east of the MSV-PlacerDome main block, as far as the Proterozoic unconformity. Corona conducted limited helicopter-supported reconnaissance exploration in late August. Corona staked an additional 400 claims to the east of the MSV-PlacerDome main block in September.

PlacerDome and MSV carried out a detailed diamond drilling program on the B Zone over a 4-week period in May and June, at the same time as the feasibility study on the deposit was proceeding under the direction of PlacerDome. In October MSV announced the purchase of the 51 percent of the Eastmain deposit owned by PlacerDome for \$5.2 million and other considerations. In late December Northgate Exploration agreed to provide MSV Resources with a financing package worth \$6.5 million, including a \$5.2 million bridge facility to allow MSV to complete the purchase of the PlacerDome interest in the deposit. The bridge facility is to be paid back in cash or shares (minimum issued 3,000,000, maximum 4,000,000) and warrants by April 30, 1989.

## 1988 Exploration Program Results

### Geological Mapping

In the West Block the metavolcanic-metasedimentary belt strikes 70 degrees and dips to the north 45 to 60 degrees. Through central Lac Lepante from north to south the sequence is:-

granodiorite  
intrusive contact  
ultramafic flow  
basalt  
intrusive contact  
pyroxenite  
intrusive contact  
basalt  
gabbro  
ultramafic flow  
felsic pyroclastic  
intrusive contact  
pegmatite/granodiorite

The granodiorites are medium-grained, white to grey feldspar-quartz-biotite rocks with a weak foliation developed. The ultramafic flows are dark green brown weathering peridotites outcropping in widths to 150 m. Locally as on Grid A spinifex texture is preserved. The gossans and sulphides observed at this end of the block occur with this rock type. The predominant metavolcanic rock type in this area and in the landholdings generally is dark green, aphanitic mafic basalt, generally massive but with deformed pillow selvages evident locally. Gabbro occurring in the west end of the West Block appears to be a



coarser-grained variety of the basalt. The metavolcanics are intruded here by isolated pods of pyroxenite 20 to 30 m in width and up to 100 m in length, massive, dark green to black with grains to 1 cm. A unit of felsic pyroclastic lies to the south of the southern ultramafic flow unit in this area, green in colour with light green to grey clasts up to 2 cm in width highly stretched (5:1 or greater) parallel to schistosity.

Through the eastern end of the belt near the west end of Lac Dolent the sequence from north to south is:-

granodiorite  
intrusive contact  
rhyolite tuff  
intrusive contact  
pyroxenite  
intrusive contact  
basalt  
gabbro  
felsic pyroclastic  
conglomerate

The rhyolite tuff is a thin (to 15 m) but persistent unit in the east end of the block, occurring in contact with pyroxenite, always near the contact with intrusive granodiorite. The rhyolite tuff is light green to grey, aphanitic, laminated, with feldspar and rarely quartz eyes to 1-2 mm. The intensity of deformation along this margin of the belt is illustrated by kink banding in the rhyolite tuff. The pyroxenite is similar to that occurring in the west end of the belt but forms a persistent sill-like unit through several kilometres in this location. The gossans and sulphides in this part of the West Block occur along the pyroxenite unit and the contact between the pyroxenite and the rhyolite tuff. The conglomerate is a green to grey coarse clastic metasediment possibly unconformable with and older than the metavolcanics. Clasts consist of granitic and gneissic material to cobble size stretched parallel to schistosity. The belt is intruded in this location by a WNW-trending Proterozoic diabase dyke up to 200 m in width.

In the eastern two claim blocks the metavolcanic-metasedimentary belt strikes north-south in the Lac Rene Block and the northwest half of the Lac Clement Block, and ESE in the southeast half of the Lac Clement Block, changing direction in a major fold hinged on a northeast trending axis centred on Lac Clement. The sequences of rock on either side of this hinge appear to have a different character, metamorphically if not lithologically. The rocks dip 40 to 60 degrees to the northeast.

A sequence from east to west through the NS-trending belt running from the west shore of Lac Clement north through Lac Rene typically is:-

Undifferentiated metasediment?/?Felsic metavolcanic

Basalt

Rhyolite tuff

Basalt

Gabbro

Rhyolite tuff

Intrusive contact

Pyroxenite

Intrusive contact

Garnetiferous Basalt

Undifferentiated Metasediment?/?Paragneiss

The eastern metasediment?/?felsic metavolcanic is a grey to white rock of variable grain size, often garnetiferous. The western metasediment?/?paragneiss is a fine-grained grey rock, biotitic and locally layered. Gossanous sulphide iron formation (?) occurs within garnetiferous basalt and with pyroxenite and rhyolite tuff in the vicinity of Lac Rene and with thicker layers of pyroxenite with rhyolite tuff on the west shore of Lac Clement. Three separate gossanous units with corresponding airborne and ground EM conductors plus/minus magnetic high anomalies strike along the westerside of the belt south of Lac Rene.

A sequence from north to south on the east side of Lac Clement typically is:-

Pillowed Basalt

Gabbro

Basalt

Ultramafic flow

Undifferentiated metasediment

Intrusive contact

Granite pegmatite

The ultramafic flow or komatiite resembles this rock type at the western end of the West Block and was not mapped on the remainder of the two eastern blocks. This unit is associated with a strong magnetic high south and east of Lac Clement and was explored here by Inco. The gossanous sulphides on the mountain on the east shore of Lac Clement occur in irregular patches and smears in highly distorted basaltic pillow lavas.

### Geophysical Surveying

VLF-EM surveying on detailed grids has established the nature extent and strength of gossanous sulphide conductors on various parts of the property. In the vicinity of Lac Lepante in the western part of the West Block (Grids A to D) the conductive sulphide iron formations occur within the ultramafic flows, often two to three parallel over an interval of 150 m across strike. The conductive horizons are consistent for intervals of several hundred metres along strike. On the south side of Grid A a conductor in an overburden-covered area apparently lies within a felsic pyroclastic unit. The sulphide iron formations within ultramafic

flows have in phase and quadrature profiles typical of EM conductors. In phase response varies up to plus/minus 60 percent and Fraser Filter contour maxima range from 150 to 200.

At Lac Dolent in the eastern part of the West Block (Grids E to I) the conductive horizons associated with surface gossans lie adjacent to and south of the tectonized intrusive contact between granodiorite and the metavolcanic-metasedimentary sequence. The gossan on Grid I, by reference to the claim-scale geological map, lies within a basalt sequence adjacent to the granodiorite contact. Geophysically the gossan is represented by a single strong conductor, with In phase response to plus/minus 90 percent and Fraser Filter maxima 250 to 300 over a length of 600 m. Two outcrops of gossanous ultramafic flow were mapped in this stratigraphic position 2.5 km east of Grid I, but from this point eastward ultramafic rocks are represented by pyroxenite sills. On Grids E, F, G and H two parallel conductive responses were detected from 100 to 150 m apart associated with, at least on Grid E, two in part gossanous pyroxenite units. The northern of the two units is generally in contact with rhyolite tuff. In phase VLF-EM response is generally up to plus/minus 60 percent in these situations, except on Grids G and H adjacent to Lac Jim where response is plus/minus 75 percent, and Fraser Filter contour maxima in the range 150 to 200. The Fraser Filter contours are highly distorted at the east end of Grid E in the vicinity of a large pit sunk in gossan, reflecting the ultramylonite deformation in adjacent kink-banded rhyolite tuff.

On the Pointer Bay Grid in the Lac Rene Block three separate VLF-EM conductors were measured. The westernmost two lie 175 m apart and the eastern of these coincides with well-developed gossan in silicified rhyolite tuff. A 310 ppb Au value was obtained by Placer in this unit at this location during reconnaissance exploration. The western conductor is completely overburden-covered. The third conductor, 400 m across strike to the east from the other two, coincides with the eastern border of a pyroxenite sill in contact with; garnitiferous basalt, a rhyolite tuff, and a garnitiferous biotitic schist. This VLF-EM conductor is particularly strong over a 600 m length between 3+00N and 3+00S on the grid where the In phase response is plus/minus 50 percent and the Fraser Filter contour maxima between 150 and 200. A 300 m interval within this overall interval, between 1+50N and 1+50S, exhibits distorted Fraser Filter contours. On the VLF profile plot there is evidence for the existence over this 300 m interval of a subordinate conductor parallel to the main conductor and 40 to 50 m to the east, adjacent to and east of outcrops of rhyolite tuff. The VLF-EM conductors on the Pointer Bay Grid correspond with MaxMin II conductors defined during the South Atlantic Ventures 1984 survey. The MaxMin II conductors in turn correlate with positive magnetic features.

Two linear NS-trending VLF-EM conductors traverse the Long Grid on the north shore of Lac Clement. The conductors, 450 m apart across strike, coincide with sparse outcroppings of two 100 m-wide gossanous pyroxenite sills. The conductors are of moderate strength with In phase plus/minus 50 percent and Fraser Filter contour maxima 150 to 180.

The same two conductive features appear to have been traversed on the Swamp Grid, west of the south end of Lac Clement, here trending NS in the north part of the grid and SSE further south, again associated with two gossanous pyroxenite sills, here 250 m apart across strike. The features, as expressed in Fraser Filter contours, have been broken up and faulted in a left hand fashion with horizontal movement 50 to 75 m. The VLF-EM conductors are weak in strength with Fraser Filter contour maxima less than 100, except for a strong linear portion of the western of the two conductors, between 7+00N and 9+50N with good In and Out of phase response, with In phase plus/minus 60 percent, and Fraser Filter contour maxima 200 to 250.

#### Rock Sampling Results and Statistical Study

A total of 478 rock samples was taken on the three claim blocks during the 1988 exploration program and assayed for gold content and analysed for 24 elements by ICP Scan. A listing of the results and a basic statistical analysis is contained in the accompanying report "Statistical Analysis of Lithochemical Data for Surface Rock Samples taken from Quill Resources Eastmain Property" by MDC Associates, December 1988. An anomalous threshold for gold of >86 ppb was established statistically, and 22 of the 478 samples assayed contained this amount of gold or greater. Of this number seventeen of the results were obtained from the West Block, five from the Lac Clement Block and none from the Lac Rene Block. The threshold anomalous gold results reported from a number of source rock types including, with frequency; rhyolite tuff (5), pyroxenite (5), gossan (5), quartz vein (5), massive sulphide (1), shear (1). The threshold anomalous gold results were located; West Block-Grid A (5), Grid E (3), Grid F (3), SE of Grid I (1), Grid G/H (3), E of Grid H (2) Lac Clement Block-Swamp Grid (2), Long Grid (1), S of Lac Gael (2).

Notable threshold anomalous results in other elements include:- copper Grid A, particularly east end with strong, contorted VLF-EM conductors open to east; Grid G with threshold anomalous Au; Pointer Bay Grid at main showing area along with threshold anomalous As, Bi, W, Co, Ni, Mo and Cd; Long Grid; lead westernmost bay of Lac Dolent in gossan, between Grids E and F; zinc Grid A, Grid F, Grid G.

## Reconnaissance Exploration

An area approximately 20 km by 15 km at the northeastern end of the Eastmain River Greenstone Belt (Figure 2) was explored via a helicopter-supported reconnaissance. Strong magnetic features in this part of the belt were thought possibly related to ultramafic rocks. The belt was traversed across strike at 100-200m intervals. All anomalous looking outcrops, gossans, etc. were noted and followed up on the ground. Magnetic anomalies turned out to be attributable to oxide iron formation within a mafic volcanic sequence. The oxide iron formation occurs with sulphide iron formation, responsible for a number of formational gossans. Locally the iron formations are cut by replacement-type quartz veins. The gossans and quartz veins were extensively sampled but results for gold and base metal elements are uniformly low. No further work appears warranted in this part of the belt.

## Conclusions and Recommendations

1. The narrow, particular sequence of rocks forming the 'mine series' at the MSV-PlacerDome gold deposit in the Eastmain River Greenstone Belt, namely rhyolite tuff, mafic tuff, ultramafic intrusive (pyroxenite) in a thick basalt sequence appears in all three claim blocks held by the Eastmain Syndicate. The 'mine series' rocks do not appear to occur in the greenstones north of the central granodiorite body or anywhere in the northeast arm of the belt. In spite of the complicated structural and folding history of the belt it would appear that the Lac Rene and Lac Clement claim blocks cover the south limb of an overturned syncline containing the gold deposit on the north limb, and the West Block covers the refolded westward extension of this overturned syncline. Regardless of the origin of the MSV-Placerdome deposit the presence of the favourable host rocks in all three Eastmain Syndicate claim blocks is significant for gold potential.
2. As a result of prospecting, sampling and geophysical surveying during the 1988 field season several areas for followup have been indicated within this favourable geological framework:- namely, Grids A, E, F, G and H in the West Block; The Pointer Bay Grid in the Lac Rene Block; and the Long Grid and Swamp Grid as well as the area to the south of Lac Gael in the Lac Clement Block.
3. Followup of these favourable indications should initially take the form of detailed prospecting, trenching and sampling, to penetrate the leached and weathered bedrock surface, particularly in gossanous showings, and geochemical surveying of the overburden-bedrock interface adjacent to favourable showing areas with a portable overburden drill such as a Wacker or Pjonjar with sampling bit, on a close spaced pattern (15 m x15 m maximum). Because of the extensive sandy and bouldery till cover a broad scale surface geochemical sampling survey would likely be ineffective in focussing targets. Favourable results from the above surveys would provide targets for a followup first pass diamond drilling program of approximately 5,000 feet.
4. Because of the extensive nature of EM conductivity with favourable rock types in the West Block and the amount of favourable strike length covered by water it is recommended that an airborne magnetic and electromagnetic (VLF-EM and HLEM) survey be flown over the favourable part of the block, namely a 20 km strip from Grid A to the east end of the West Block, with 3 km crosslines and 100 m-line spacing (see Dwg. 2). Sufficient airborne and ground geophysical data is available for the Lac Rene and Lac Clement blocks from assessment files.
5. If mineral claims lying between the Lac Rene and Lac Clement blocks lapse this ground should be acquired for the Syndicate.
6. A budget of \$355,000 for the recommended program is detailed.

EASTMAIN SYNDICATE  
 PROPOSED 1989 EXPLORATION BUDGET

		\$
Airborne survey		
600 line km @ \$68.00	40,800	
Mob and demob.	<u>5,000</u>	
		45,800
Trenching		
2 weeks @ \$5,000		10,000
250 samples @ \$20.00		5,000
Portable overburden drilling		
6 weeks @ \$5,000		30,000
750 samples @ \$20.00		15,000
Diamond drilling - 4 weeks		
5,000 feet @ \$30.00 incl. helicopter moves		150,000
Mob and demob.		23,000
Travel and freight		4,500
Consumable equipment		2,000
Equipment rental		2,000
Food - 6 weeks		3,000
Fixed wing		10,000
Helicopter (shared)		30,000
Personnel, supervision, reporting		<u>24,700</u>
Total		<u>\$355,000</u>

List of References

1. Roy, C. Geologie du Secteur de l'Ile Bohier de la bande volcanosedimentaire de la riviere Eastmain Superieure - Quebec M.E.R. MB 88-16
2. Couture J.-F. Geologie de la partie occidentale de la bande volcanosedimentaire de la riviere Eastmain Superieure - Quebec M.E.R. MB 87-51
3. Boldy et al Case History of a Gold Discovery Eastmain River Area, Quebec in Chibougamau - Stratigraphy and Mineralization Special Volume 34 The Canadian Institute of Mining and Metallurgy - 1984.



### Certificate

1. I, Timothy John Beesley, reside at 24 Lothian Avenue, Toronto, Ontario, M8Z 4J8, and am a geologist and professional engineer.

2. I hold a B.A.Sc. in Applied Geology from the University of Toronto and a M.S. in Geology from the University of Colorado and have been continuously practising my profession for the past 22 years.

3. This report is based upon my personal supervision of field exploration and evaluation of public domain geological reports and maps.

4. I have not, directly or indirectly, received or expect to receive any interest, directly or indirectly, in the the property of the Eastmain Syndicate or any affiliate, or beneficially own, directly or indirectly, any securities of any member of the Eastmain Syndicate or any affiliate.





# ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527  
FAX (416) 239-4012

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## Certificate of Analysis

Certificate No. QR-05/01/7871 Date: July 13, 1988  
 Received 45 Samples of Rock  
 Submitted by Quill Resources Ltd. Att'n: Mr. Gordon Lewis  
 c.c.: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb	Sample No.	Au ppb
29501	14, 10S, ACT36	29516	GZ, qv 37	29608	GZ 71
29502	14, 20S 83	29517	V4, GZ 21	29609	qv 60
29503	14, GZ 61	29518	GZ, 2S 25	29610	GZ 56
29504	CH, 3S 46	29519	V4, GZ 30	29611	GZ 90
29505	SUEAR 88	29520	V4, GZ 18	29612	GZ 64
29506	GZ, 10S 41	29521	V4, GZ 63	29613	GZ 54
29507	CH, 2S 38	29522	GZ 50	29614	GZ 55
29508	14, 5S 18	29523	GZ 74	29615	V4, FCH, qv 70
29509	GZ, 30S 33	29601	GZ 49	29616	GZ 89
29510	GPH 38	29602	GZ 82	29617	qv, GZ 77
29511	CH, 3S 45	29603	GZ 99	29618	GZ, 71
29512	GZ, qv 54	29604	GZ 66	29619	V4, ACT 73
29513	CH, GPH, 2S 37	29605	GZ 60	29620	GZ 68
29514	14, 10S 75	29606	GZ 93	29621	GZ 67
29515	CH, qv, 2S 27	29607	GZ 85	29622	V4, GZ 33

**Ministère de l'Énergie et des Ressources**  
**Service de la Géoinformation**  
 Date: 14 AOUT 1989  
 No G.M. 48783

ASSAYERS (ONTARIO) LIMITED

Per   
 J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

Certificate No. QR-05/02/7871

Date: July 13, 1988

Received: 45

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T. J. Beesley

RESULTS IN PPM

	29501	29502	29503	29504	29505	29506	29507
Ag	.7	.8	.8	<.1	.9	.6	.3
Al %	.78	.30	.72	.20	1.7	.40	.91
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	.01	<10	<10
Ca %	.09	.04	.04	.29	.06	.06	.24
Cd	3	18	1	40	13	9	<1
Co	30	28	16	20	30	44	12
Cr	105	22	253	24	223	57	50
Cu	105	481	104	97	99	213	53
Fe %	8.4	6.9	9.6	3.2	19.1	11.7	3.9
Mg %	1.1	.3	.9	.2	2.5	.52	1.5
Mn	210	136	209	96	442	191	193
Mo	<10	<10	<10	<10	150	<10	<10
Ni	83	70	41	40	58	169	21
P %	.04	.02	.03	.1	.08	.03	.1
Pb	51	44	49	53	131	59	39
S %	2.8	2.6	.7	1.1	.3	4.1	.8
Sb	<10	<10	<10	<10	23	10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	22	<10	20	13	51	25	42
W	<10	<10	<10	<10	<10	<10	<10
Zn	82	4491	237	669	716	1327	302

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Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29508	29509	29510	29511	29512	29513	29514
Ag	.7	.9	.5	.2	.6	.2	1.3
Al %	.95	.40	.15	21	2.03	.14	.89
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.07	.04	.04	.04	.03	.03	.08
Cd	10	10	<1	<1	<1	<1	6
Co	24	70	<10	<10	<10	<10	47
Cr	153	70	45	26	697	56	246
Cu	102	454	30	88	62	42	212
Fe %	8.5	14.6	1.9	2.4	6.3	1.8	7.8
Mg %	1.4	.55	.21	.32	2.8	.21	1.2
Mn	230	219	68	85	355	86	255
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	65	240	13	13	17	10	134
P %	.03	.03	.01	.02	.04	.01	.03
Pb	51	60	41	94	56	16	49
S %	2.0	4.2	.3	.7	.2	.07	3.2
Sb	<10	13	<10	<10	10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	43	23	10	19	98	10	32
W	<10	<10	<10	<10	<10	<10	<10
Zn	2218	383	54	154	97	74	497

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Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29515	29516	29517	29518	29519	29520	29521
Ag	.5	1.2	<.1	.3	.8	.4	.4
Al %	.31	.82	.26	.25	.68	.60	.17
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.11	.05	.06	.23	.32	.27	.11
Cd	3	8	5	<1	<1	<1	<1
Co	27	35	19	20	20	19	13
Cr	63	119	39	57	99	88	23
Cu	177	166	71	148	87	80	193
Fe %	4.4	10.6	4.1	2.0	3.0	2.6	6.6
Mg %	.53	1.0	.28	.19	.61	.57	.07
Mn	140	240	93	120	316	286	159
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	75	89	55	82	86	85	52
P %	.03	.04	.03	.04	.02	.02	.02
Pb	41	58	28	37	39	36	94
S %	2.5	3.2	1.2	.9	.9	.9	2.1
Sb	<10	10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	19	33	10	15	21	18	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	456	396	100	82	106	82	289

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Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29522	29523	29601	29602	29603	29604	29605
Ag	.7	1.1	1.0	1.4	.1	.1	1.0
Al %	.21	.28	.61	.36	.07	.13	.11
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.15	.18	.07	.02	.02	.04	.14
Cd	4	3	7	9	5	5	<1
Co	34	20	11	11	<10	<10	<10
Cr	30	52	180	83	19	23	30
Cu	186	129	110	153	103	139	67
Fe %	11.1	3.3	13.2	16.9	12.0	11.6	4.4
Mg %	.11	.08	.38	.10	.01	.02	.02
Mn	177	148	235	206	143	160	99
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	165	91	36	24	20	24	15
P %	.04	.01	.05	.05	.03	.03	.02
Pb	66	32	95	74	52	61	37
S %	5.5	1.1	.3	.2	.3	.3	.2
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	11	14	24	12	<10	11	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	124	19	117	196	105	190	214

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Certificate No. QR-05/06/7871

Date: July 13, 1988

Received: 45

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29606	29607	29608	29609	29610	29611	29612
Ag	1.4	1.7	.2	<.1	.5	1.4	.8
Al %	.09	.08	.09	.10	.08	.13	.02
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.02	.08	.18	.14	.08	.07	.03
Cd	8	3	3	2	<1	4	1
Co	10	83	14	11	12	16	<10
Cr	52	21	65	51	20	30	27
Cu	64	138	233	438	28	163	34
Fe %	16.2	8.2	4.2	5.5	1.6	7.4	2.8
Mg %	.06	.02	.03	.02	.01	.04	.01
Mn	192	115	105	100	204	171	92
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	23	41	28	24	<10	36	13
P %	.05	.02	.02	.03	.01	.03	.01
Pb	67	71	73	119	59	346	120
S %	.5	2.3	.2	.3	.1	.1	.1
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	16	<10	27	19	11	12	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	112	154	1170	773	85	128	84

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CERTIFICATE OF ANALYSIS

Certificate No. QR-05/07/7871

Date: July 13, 1988

Received: 45

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29613	29614	29615	29616	29617
Ag	1.2	.6	1.1	1.9	2.0
Al %	.06	.05	.50	.01	.06
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.08	.04	.04	.01	.02
Cd	3	<1	5	5	4
Co	17	<10	<10	<10	12
Cr	40	18	459	<10	21
Cu	93	21	87	25	67
Fe %	4.3	1.6	6.3	12.5	10.4
Mg %	.02	.01	.56	.01	.01
Mn	115	53	204	133	218
Mo	<10	<10	<10	<10	<10
Ni	24	<10	15	18	55
P %	.03	.01	.02	.02	.02
Pb	85	32	96	48	62
S %	.2	.2	.4	.3	.1
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	14	<10	33	<10	<10
W	<10	<10	<10	<10	<10
Zn	212	16	53	74	1008

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J. van Engelen Mgr.



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CERTIFICATE OF ANALYSIS

Certificate No. QR-05/08/7871

Date: July 13, 1988

Received: 54

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29618	29619	29620	29621	29622
Ag	6.1	2.5	2.2	6.5	1.6
Al %	.08	.63	.25	.24	.81
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.14	.03	.03	.63	.08
Cd	5	4	4	6	1
Co	100	13	27	42	18
Cr	17	251	37	24	162
Cu	226	105	313	183	113
Fe %	9.1	12.2	9.9	9.7	5.8
Mg %	.06	.65	.04	.03	.94
Mn	217	247	190	475	263
Mo	<10	<10	<10	<10	<10
Ni	128	31	37	158	61
P %	.02	.04	.02	.02	.02
Pb	144	71	62	57	42
S %	2.8	.3	.3	.1	.1
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	28	10	<10	16
W	<10	<10	<10	<10	<10
Zn	1092	450	1207	715	294

ASSAYERS (ONTARIO) LIMITED

J. van Engelen Mgr.



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33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527  
FAX (416) 239-4012

4/6

## Certificate of Analysis

Certificate No. QR-08/7995 Date: August 16, 1988  
 Received \_\_\_\_\_ 62 Samples of ROCK  
 Submitted by Quill Resources Ltd. Att'n: T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb	Sample No.	Au ppb
29595 V <sub>1</sub> , qv (984) (968)		29690 V <sub>1</sub> , 70S 40		29815 MS, qv 48	
29596 V <sub>1</sub> , qv (590) (639)		29691 qv, 1S 33		29816 MS 60	
29597 GZ, MS, qv 75		29692 V <sub>1</sub> , FCH 81		29817 qv, 2S 41	
29598 GZ, qv, 5S 40		29693 V <sub>1</sub> , FCH, 2S 51		29818 qv, 2S 36	
29599 GZ, qv 42		29694 V <sub>1</sub> , FCH, GZ 68		29819 MS, qv 38	
29600 V <sub>1</sub> , 1S (388) (367)		29695 V <sub>1</sub> , GZ 47		29820 MS, qv 52	
29676 V <sub>1</sub> , FCH, 2S 32		29801 V <sub>1</sub> , 1S (110)		29821 MS, qv 63	
29677 V <sub>1</sub> , FCH, 2S 30		29802 1/2, 1S 27		29822 V <sub>1</sub> , 2S 57	
29678 V <sub>1</sub> , FCH, 1S 29		29803 V <sub>2</sub> 25		29823 MS, qv 20	
29679 V <sub>1</sub> , FCH, 1S 43		29804 V <sub>2</sub> 27		29824 MS, qv, GPH 60	
29680 qv, 1S, GZ 40		29805 V <sub>2</sub> , 1S 29		29825 V <sub>2</sub> , 1S 42	
29681 1/4, FCH, 3S 26		29806 V <sub>2</sub> , 1S 14		29826 qv, V <sub>2</sub> , 2S 47	
29682 qv, 1/4, GZ 40		29807 1/2 23		29827 V <sub>2</sub> , 5S 60	
29683 V <sub>1</sub> , FCH 38		29808 V <sub>1</sub> 25		29828 V <sub>2</sub> , 10S 36	
29684 GZ 14		29809 V <sub>1</sub> 29		29829 V <sub>1</sub> , 4S 20	
29685 1/4, FCH, 3S 29		29810 V <sub>1</sub> 37		29830 MS, qv 25	
29686 1/4, qv, 2S 41		29811 V <sub>1</sub> , 2S 14		29831 qv, FCH 80	
29687 qv, 1S 33		29812 V <sub>1</sub> 25		29832 MS, FCH 56	
29688 qv, 1S (735) (795)		29813 MS, qv 41		29833 MS, qv, GPH 28	
29689 V <sub>1</sub> , qv 16		29814 V <sub>1</sub> , 15S 37		29834 MS, qv 17	
				29835 V <sub>1</sub> , qv, 1S 29	
				29836 V <sub>3</sub> , 5S 37	

ASSAYERS (ONTARIO) LIMITED

By

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-08/01/7995 Date: August 16, 1988

Samples Of: Rocks 62

Submitted by: Quill Resources Ltd Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29595	29596	29597	29598	29599	29600	29676
Ag	<.1	<.1	1.0	.1	<.1	.4	.2
Al %	.3	.2	.06	.06	.08	.7	.8
As	<10	<10	18	<10	<10	27	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.8	.4	.09	.1	.1	.3	.2
Cd	<10	<10	19	10	17	13	<10
Co	23	18	42	22	49	26	27
Cr	56	50	27	31	34	39	31
Cu	264	187	23	24	66	63	56
Fe %	2.0	1.6	11.3	7.4	14.6	4.4	4.8
Mg %	.1	.1	.03	.05	.03	.8	.9
Mn	169	132	172	145	248	242	334
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	72	61	48	36	64	29	63
P %	.01	.01	.03	.01	.02	.07	.05
Pb	23	11	36	18	28	72	30
S %	.4	.2	11	7.2	12.9	2.4	2.6
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	28	19	<10	<10	<10	15	11
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	15	16	<10	<10	<10	30	17
W	<10	<10	<10	<10	<10	<10	<10
Zn	69	60	69	68	89	129	146

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## Certificate of Analysis

Certificate No. QR-08/02/7995 Date: August 16, 1988  
 Samples Of: Rocks 62  
 Submitted by: Quill Resources Ltd Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29677	29678	29679	29680	29681	29682	29683
Ag	.4	1.8	.6	1.3	1.9	.4	1.1
Al %	.7	.8	1.0	.09	.2	.6	1.3
As	<10	23	30	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.2	.1	.1	.09	.09	.1	.1
Cd	<10	16	31	<10	<10	<10	<10
Co	21	20	71	47	34	22	38
Cr	66	708	978	66	222	1118	1827
Cu	55	55	76	83	51	26	38
Fe %	4.8	4.4	43	1.6	3.1	2.7	5.1
Mg %	.7	.9	1.4	.1	.2	.8	1.8
Mn	340	405	516	93	179	345	664
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	76	71	598	95	262	78	181
P %	.05	.03	.02	.03	.01	.01	.02
Pb	17	21	11	<10	<10	<10	16
S %	2.4	1.1	1.5	.8	1.7	.5	1.3
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	14	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	14	27	30	<10	11	38	61
W	<10	<10	<10	<10	<10	<10	<10
Zn	137	100	106	65	66	71	92

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A DIVISION OF ASSAYERS CORPORATION LTD.

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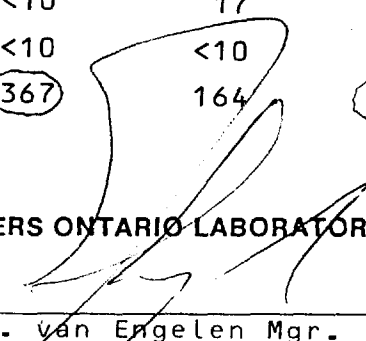
## Certificate of Analysis

Certificate No. QR-08/03/7995 Date: August 16, 1988  
Samples Of: Rocks 62  
Submitted by: Quill Resources Ltd. Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29684	29685	29686	29687	29688	29689	29690
Ag	1.0	.5	.7	.5	.3	.2	.1
Al %	.5	.7	1.2	.4	.3	.5	.5
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.08	.1	.1	.1	.2	.1	.1
Cd	<10	<10	<10	16	<10	<10	15
Co	16	55	61	49	11	20	84
Cr	704	500	1198	279	33	114	46
Cu	35	90	103	124	711	66	93
Fe %	3.3	7.1	7.7	8.0	3.5	4.8	13.4
Mg %	.6	.6	1.3	.3	.2	.6	.5
Mn	325	466	780	322	152	241	288
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	85	341	595	221	62	101	147
P %	.01	.02	.02	.05	.03	.04	.04
Pb	<10	17	121	13	<10	<10	18
S %	.7	4.8	2.6	4.5	1.5	2.1	12.6
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	14	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	29	20	42	14	<10	17	10
W	<10	<10	<10	<10	<10	<10	<10
Zn	70	129	209	896	367	164	314

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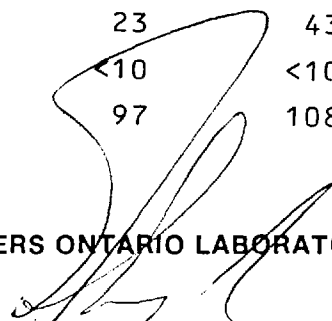
## Certificate of Analysis

Certificate No. QR-08/04/7995 Date: August 16, 1988  
 Samples Of: Rocks 62  
 Submitted by: Quill Resources Ltd. Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29691	29692	29693	29694	29695	29801	29802
Ag	1.2	.9	.7	1.8	.6	.5	1.1
Al %	.1	.1	.2	.3	.2	.5	1.4
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.1	.1	.2	.1	.2	.1	.3
Cd	<10	12	<10	<10	<10	11	<10
Co	34	44	98	51	46	31	31
Cr	37	51	48	129	110	68	108
Cu	60	109	155	142	75	95	247
Fe %	3.4	6.8	8.8	6.4	4.9	3.2	3.8
Mg %	.1	.1	.2	.3	.1	.5	1.6
Mn	119	154	189	252	169	177	298
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	87	172	238	111	133	55	80
P %	.01	.05	.05	.04	.04	.06	.05
Pb	<10	17	20	18	<10	42	22
S %	2.1	4.4	5.8	2.7	1.8	1.2	.9
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	<10	<10	14	17	23	43
W	<10	<10	<10	<10	<10	<10	<10
Zn	346	276	190	91	79	97	108

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## Certificate of Analysis

Certificate No. QR-08/05/7995 Date: August 16, 1988  
 Samples Of: Rocks 62  
 Submitted by: Quill Resources Ltd. Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29803	29804	29805	29806	29807	29808	29809
Ag	.4	.1	.2	.3	<.1	.1	.2
Al %	1.5	1.8	1.6	2.3	1.7	.5	.5
As	12	<10	<10	57	<10	40	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.2	.1	.1	.2	.1	.1	.2
Cd	14	14	<10	16	10	11	<10
Co	53	44	40	49	49	24	14
Cr	125	135	108	160	110	40	41
Cu	313	178	210	322	258	74	75
Fe %	6.0	5.7	5.5	6.8	6.6	1.9	1.8
Mg %	1.9 x	2.3 x	2.1 x	3.3 x	2.3 x	.7	.7
Mn	351	366	356	461	390	159	149
Mo	11	12	<10	18	<10	<10	<10
Ni	80	65	75	77	79	26	27
P %	.07	.07	.04	.08	.05	.06	.03
Pb	40	39	22	49	33	13	11
S %	2.4	1.8	1.9	1.8	2.9	.4	.5
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	85	106	80	152	90	36	30
W	<10	<10	<10	39	14	<10	<10
Zn	153	154	125	385	301	83	88

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## Certificate of Analysis

Certificate No. QR-08/06/7995 Date: August 16, 1988  
Samples Of: Rocks 62  
Submitted by: Quill Resources Ltd Att'n: T.J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29810	29811	29812	29813	29814	29815	29816
Ag	.1	.3	<.1	.4	.3	.7	.4
Al %	.6	.7	.4	.1	.3	.3	.1
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.2	.2	.2	.1	.2	.1	.1
Cd	<10	<10	<10	24	17	12	23
Co	14	29	13	85	51	31	56
Cr	43	84	39	43	46	38	66
Cu	66	256	43	199	102	110	182
Fe %	1.9	3.6	1.6	204	131	10.1	20.2
Mg %	.7	.9	.5	.1	.3	.3	.1
Mn	176	241	168	354	415	400	428
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	28	76	37	130	79	91	95
P %	.03	.04	.03	.04	.04	.03	.05
Pb	<10	<10	<10	46	34	28	52
S %	.3	1.1	.1	20.7	12.8	5.7	12.1
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	34	52	25	14	14	15	18
W	<10	<10	<10	<10	<10	<10	<10
Zn	82	69	50	280	295	136	163

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## Certificate of Analysis

Certificate No. QR-08/07/7995 Date: August 16, 1988  
Samples Of: Rocks 62  
Submitted by: Quill Resources Ltd. Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29817	29818	29819	29820	29821	29822	29823
Ag	.1	.2	.3	.2	<.1	.2	.6
Al %	.06	.03	.2	.1	.08	.2	.2
As	38	<10	<10	41	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.07	.06	.1	.1	.1	.2	.2
Cd	16	<10	15	14	<10	<10	17
Co	46	31	58	25	11	85	64
Cr	30	32	60	28	24	67	58
Cu	39	32	113	45	30	183	378
Fe %	8.0	6.0	12.6	6.6	1.8	7.2	14.4
Mg %	.04	.02	.2	.03	.03	.2	.1
Mn	164	143	434	165	108	293	370
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	36	30	81	27	18	70	175
P %	.04	.01	.02	.05	.01	.02	.02
Pb	<10	<10	34	17	<10	17	28
S %	7.8	6.2	12.7	1.9	.8	6.5	13.3
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	10	<10	<10	10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	10	<10	10	13	<10	31	14
W	<10	<10	<10	<10	<10	<10	<10
Zn	65	60	110	52	58	65	103

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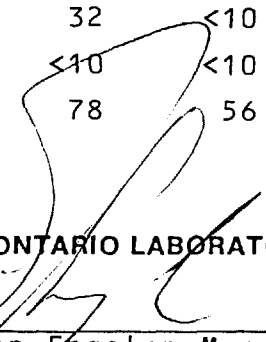
## Certificate of Analysis

Certificate No. QR-08/08/7995 Date: August 16, 1988  
Samples Of: Rocks 62  
Submitted by: Quill Resources Ltd Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29824	29825	29826	29827	29828	29829	29830
Ag	.7	<.1	<.1	<.1	.1	<.1	.1
Al %	.3	1.1	.7	1.4	1.5	.6	.09
As	<10	<10	32	<10	38	29	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.3	.7	.3	.5	.3	.3	.09
Cd	18	<10	13	<10	15	11	24
Co	63	30	42	47	208	40	48
Cr	58	79	71	101	156	56	27
Cu	238	75	161	88	113	47	33
Fe %	15.9	4.5	5.0	4.8	7.2	2.3	16.4
Mg %	.03	1.1	.7	1.7	2.3	.8	.1
Mn	328	410	287	494	555	244	251
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	122	62	81	109	68	34	66
P %	.04	.04	.05	.04	.07	.05	.02
Pb	34	16	22	26	40	<10	19
S %	12.4	1.6	2.1	1.8	4.2	.7	18.5
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	18	19	14	11	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	21	50	34	60	94	32	<10
W	<10	<10	14	<10	28	<10	<10
Zn	79	89	143	167	170	78	56

ASSAYERS ONTARIO LABORATORIES

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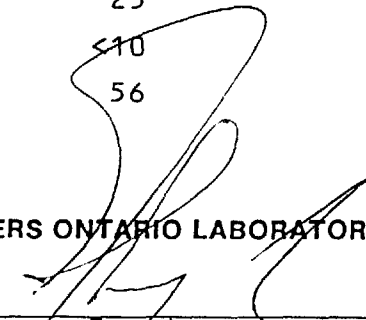
## Certificate of Analysis

Certificate No. QR-08/09/7995 Date: August 16, 1988  
Samples Of: Rocks 62  
Submitted by: Quill Resources Ltd. Att'n: T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29831	29832	29833	29834	29835	29836
Ag	.1	.8	.7	<.1	<.1	<.1
Al %	.1	.1	.08	.1	.1	.8
As	<10	<10	<10	54	<10	<10
Bi	<10	<10	<10	<10	<10	<10
Ca %	.1	.1	.1	.1	.09	.7
Cd	<10	<10	21	28	11	<10
Co	19	39	61	49	45	57
Cr	73	207	29	28	149	67
Cu	66	88	44	67	72	429
Fe %	3.0	5.1	14.3	15.9	5.7	5.0
Mg %	.1	.1	.04	.1	.1	.4
Mn	175	206	260	273	168	282
Mo	<10	<10	<10	<10	<10	<10
Ni	44	245	84	105	207	117
P %	.02	.02	.02	.05	.01	.03
Pb	<10	<10	12	28	<10	10
S %	3.0	2.2	16.8	16.9	6.6	2.7
Sb	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	16
Th	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10
V	14	20	<10	<10	14	25
W	<10	<10	<10	<10	<10	<10
Zn	45	55	52	227	52	56

ASSAYERS ONTARIO LABORATORIES

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J. van Engelen Mgr.



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## Certificate of Analysis

Certificate No. QR-06/01/7914 Date: July 26, 1988  
Received 25 Samples of Rock  
Submitted by Quill Resources Ltd. Att'n: Mr. G. Lewis  
c.c. Mr. T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29524 GZ, 2S	44	29630 GZ	56
29525 GZ, 1S	74	29631 GZ	69
29526 V <sub>2</sub> , 1S	50	29632 qv, GZ	45
29527 V <sub>2</sub> , 1S	70	29633 GZ, ACT	22
29528 V <sub>4</sub> , qv	83	29634 GZ, qv, 3S	27
29529 V <sub>2</sub> , 1S	66	29635 GZ, 3S	25
29623 GZ	50	29636 GZ, qv	26
29624 GZ, 3S	61	29637 GZ, 5S	27
29625 V <sub>4</sub> , GZ	53	29638 GZ, 3S	39
29626 GZ	72	29639 V <sub>4</sub> , qv, 3S	29
29627 GZ, qv	59	29640 V <sub>4</sub> , GZ, 2S	18
29628 GZ	48	29641 qv, V <sub>4</sub>	32
29629 GZ	51		

ASSAYERS (ONTARIO) LIMITED

Per

J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

Certificate No. QR-06/02/7914

Date: July 26, 1988

Received: 25

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29524	29525	29526	29527	29528	29529	29623	29624
Ag	.1	<.1	.3	.1	.2	.1	.1	.2
Al %	.98	3.0	1.5	1.5	1.0	1.5	1.0	2.1
As	<10	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.71	.57	.88	.47	1.0	.5	.2	.8
Cd	10	<10	<10	<10	<10	<10	<10	<10
Co	34	40	78	20	19	29	35	63
Cr	49	212	172	177	23	173	265	565
Cu	172	24	41	26	69	41	150	304
Fe %	7.8	4.3	3.5	3.7	1.5	3.5	3.8	6.5
Mg %	.61	4.0 x	1.7	1.5	.51	1.5	1.9	3.7 x
Mn	374	352	480	365	176	450	392	842
Mo	17	22	11	<10	11	18	24	12
Ni	87	99	89	50	21	79	53	144
P %	.06	.05	.06	.05	.03	.07	.04	.04
Pb	64	67	45	36	21	40	63	68
S %	3.0	.1	.09	.1	.05	.08	1.4	3.0
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	25	12	12	16	<10	15	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	10	<10	<10	<10	<10	<10
V	10	146	78	83	28	73	69	108
W	<10	<10	<10	<10	<10	<10	<10	<10
Zn	1058	94	98	76	94	77	194	125

ASSAYERS (ONTARIO) LIMITED

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Certificate No. QR-06/03/7914

Date: July 26, 1988

Received: 25

Samples Of: Rock

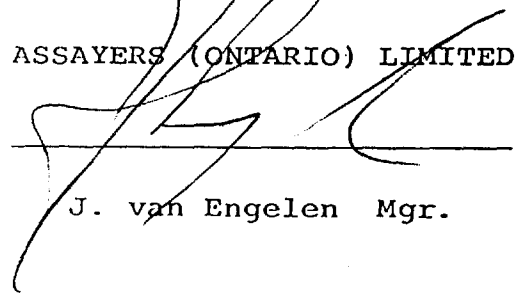
Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29625	29626	29627	29628	29629	29630	29631	29632
Ag	.4	.2	.3	.8	.3	.7	.9	1.0
Al %	1.6	2.2	.1	1.3	.1	1.5	.4	.4
As	<10	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.5	1.4	.1	1.2	.1	1.4	.9	.4
Cd	<10	<10	<10	<10	<10	<10	11	<10
Co	69	56	14	35	25	26	68	22
Cr	428	958	48	446	37	702	75	217
Cu	331	302	185	279	151	164	269	223
Fe %	7.2	4.5	6.0	3.0	6.5	3.1	7.7	46
Mg %	2.9x	2.5x	.1	1.0	.06	.8	.08	.1
Mn	700	713	194	456	243	453	636	351
Mo	<10	21	11	<10	10	<10	13	10
Ni	164	164	35	58	53	57	142	50
P %	.03	.05	.02	.02	.02	.02	.04	.03
Pb	76	71	34	142	43	97	57	76
S %	4.3	2.0	.1	.9	.2	.3	.1	.2
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	13	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	11	<10
V	69	191	15	97	13	161	23	40
W	<10	<10	<10	<10	<10	<10	<10	<10
Zn	148	135	46	94	995	70	73	53

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Date: July 26, 1988

Received: 25

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c. Mr. T.J. Beesley

RESULTS IN PPM

	29633	29634	29635	29636	29637	29638	29639	29640	29641
Ag	.4	.9	.3	.1	.4	.3	.2	<.1	<.1
Al %	1.4	.6	.1	1.0	.2	1.1	.7	.9	.3
As	<10	<10	<10	<10	<10	10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.8	.6	.08	.2	.2	.5	.6	.1	.1
Cd	<10	16	<10	<10	15	23	13	<10	10
Co	22	100	18	68	45	46	29	22	<10
Cr	204	113	32	68	32	225	77	100	59
Cu	53	588	65	63	220	110	113	41	39
Fe %	3.6	10.9	3.0	5.3	13.3	6.1	5.4	4.8	2.0
Mg %	1.8	.1	.1	1.6	.08	1.4	.6	1.3	.3
Mn	481	322	150	206	370	734	653	275	186
Mo	<10	11	<10	<10	<10	10	14	<10	<10
Ni	37	197	53	135	242	130	76	46	23
P %	.02	.05	.02	.04	.07	.1	.05	.06	.03
Pb	32	114	20	36	57	51	55	55	13
S %	.6	5.6	1.5	1.1	7.9	3.0	2.5	2.3	.1
Sb	10	<10	<10	19	<10	<10	<10	<10	<10
Sr	<10	<10	<10	12	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	12	<10	<10	<10	<10
V	73	37	<10	11	<10	50	23	52	19
W	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zn	46	94	33	72	697	470	2189	82	31

ASSAYERS (ONTARIO) LIMITED

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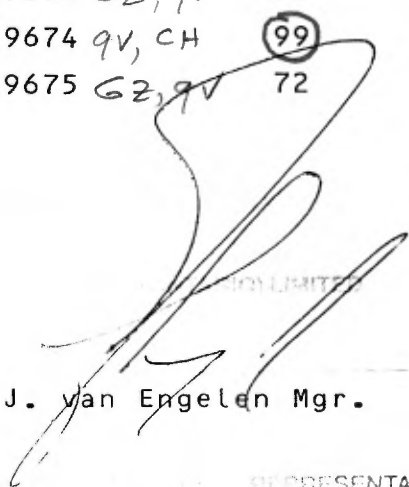


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Certificate of Analysis

Certificate No QR-07/02 Date August 9, 1988  
 Received \_\_\_\_\_ 99 Rocks \_\_\_\_\_  
 Submitted by Quill Resources Inc. Att'n: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29590 V4, 15S	49	29657 V4, GZ	22
29591 qv, 8S	37	29658 GZ	28
29592 qv, 8S	35	29659 GZ	40
29593 qv, 8S	32	29660 V4, GZ	14
29594 V1, V4, 1S	49	29661 V4, GZ, 5S	28
29642 GZ, GR	34	29662 GZ	19
29643 MS, GZ	31	29663 V3, qv, 50S	52
29644 GZ, V4	13	29664 qv, 2S, GZ	22
29645 GZ	10	29665 GZ, qv	36
29646 V4, 40S	54	29666 qv,	24
29647 V4, 10S	38	29667 V3, 60S, qv	34
29648 V4, 30S	15	29668 V3, 25S, qv	44
29649 GZ, V4	40	29669 V3, 25S, qv	32
29650 MS	29	29670 qv.	18
29651 GZ, 30S	45	29671 GZ, qv	28
29652 V4, 25S	32	29672 GZ, 20S	31
29653 GZ	31	29673 GZ, qv	73
29654 ACT	17	29674 qv, CH	99
29655 GZ, 7S	38	29675 GZ, qv	72
29656 GZ	10		

  
 J. van Engelen Mgr.



ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/15

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29590	29591	29592	29593	29594
Ag	.9	<.1	.1	.7	.2
Al %	2.0	.6	.7	.9	.8
As	<10	<10	<10	<10	16
Bi	<10	<10	<10	<10	26
Ca %	.2	.1	.1	.1	.2
Cd	<10	<10	<10	<10	29
Co	46	26	44	85	81
Cr	168	57	55	70	73
Cu	86	142	89	185	238
Fe %	8.5	3.7	5.4	8.1	4.8
Mg %	2.3	.6	.7	.9	.7
Mn	589	226	260	345	264
Mo	<10	<10	<10	<10	37
Ni	115	52	67	142	78
P %	.05	.03	.02	.03	.1
Pb	80	23	26	40	46
S %	5.6	2.1	3.9	6.3	2.4
Sb	<10	<10	<10	<10	10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	104	27	30	35	44
W	<10	<10	<10	<10	28
Zn	109	76	81	134	68

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/16

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29642	29643	29644	29645	29646
Ag	.2	1.1	.1	<.1	.3
Al %	.3	.2	.6	.4	.1
As	15	13	<10	16	<10
Bi	25	23	<10	27	<10
Ca %	.3	.3	.3	.4	.7
Cd	28	20	<10	31	10
Co	56	75	22	62	55
Cr	41	26	31	39	21
Cu	1265	462	138	160	432
Fe %	6.6	11.3	3.4	5.5	7.1
Mg %	.2	.1	.3	.2	.1
Mn	550	548	590	834	394
Mo	29	<10	<10	26	<10
Ni	40	60	46	44	58
P %	.09	.08	.01	.09	.03
Pb	47	58	<10	38	30
S %	.9	3.1	.8	1.0	3.4
Sb	11	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	24	11	18	19	<10
W	17	<10	<10	28	<10
Zn	74	67	51	55	84

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/17

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T. J. Beesley

RESULTS IN PPM

	29647	29648	29649	29650	29651
Ag	.3	.9	.8	.1	.7
Al %	.04	.05	.07	1.1	.1
As	17	10	<10	<10	14
Bi	<10	<10	<10	<10	<10
Ca %	.2	.3	.1	.4	.3
Cd	35	15	10	<10	16
Co	121	82	15	37	84
Cr	34	26	17	63	30
Cu	476	621	201	214	435
Fe %	9.7	6.9	10.3	6.1	6.8
Mg %	.07	.06	.03	.6	.07
Mn	265	354	392	1718	611
Mo	31	<10	<10	<10	15
Ni	96	67	31	66	62
P %	.09	.07	.01	.02	.09
Pb	55	29	28	31	40
S %	6.0	3.8	.9	2.4	4.1
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	<10	<10	70	<10
W	38	<10	<10	<10	<10
Zn	95	67	33	101	70

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/18

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29652	29653	29654	29655	29656
Ag	.9	<.1	.2	.1	<10
Al %	.07	.05	1.8	1.8	.2
As	<10	<10	<10	14	<10
Bi	<10	<10	<10	<10	<10
Ca %	.9	.4	.4	.3	.2
Cd	<10	16	<10	16	<10
Co	56	26	28	59	<10
Cr	23	20	75	82	16
Cu	346	264	45	41	77
Fe %	7.9	8.1	4.9	4.9	1.6
Mg %	.06	.07	1.2	1.2	.1
Mn	453	256	943	930	333
Mo	<10	<10	<10	22	<10
Ni	66	30	47	49	11
P %	.01	.03	.02	.01	<10
Pb	20	21	39	63	<10
S %	4.6	1.2	.1	.1	.2
Sb	<10	31	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	<10	85	86	<10
W	<10	<10	<10	32	<10
Zn	62	37	197	205	33

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/19

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29657	29658	29659	29660	29661
Ag	.1	<.1	<.1	.6	2.2
Al %	.5	.6	.4	3.1	.2
As	<10	<10	<10	15	17
Bi	<10	<10	<10	<10	<10
Ca %	.6	.2	.3	.1	.4
Cd	16	16	<10	18	31
Co	43	66	<10	91	89
Cr	98	112	59	1144	66
Cu	50	93	26	264	314
Fe %	3.0	4.1	2.6	6.0	10.2
Mg %	.2	.5	.4	5.0	.1
Mn	174	245	171	530	910
Mo	<10	<10	<10	14	<10
Ni	34	118	17	347	75
P %	.1	.09	.02	.1	.09
Pb	39	37	<10	103	62
S %	1.0	1.4	.4	1.0	4.0
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	29	37	29	32	99
W	<10	<10	<10	11	<10
Zn	69	51	61	205	394

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/20

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesly

RESULTS IN PPM

	29662	29663	29664	29665	29666
Ag	.9	1.6	1.0	.8	.6
Al %	.2	1.4	.2	.3	.04
As	<10	20	<10	15	<10
Bi	<10	13	<10	<10	<10
Ca %	.08	.06	.05	.06	.04
Cd	20	44	<10	22	<10
Co	21	88	<10	86	<10
Cr	136	220	37	60	26
Cu	127	94	31	53	29
Fe %	19	19	2.4	9.1	26
Mg %	.1	.9	.2	.2	.03
Mn	306	506	122	217	103
Mo	<10	<10	<10	<10	<10
Ni	47	113	27	66	22
P %	.05	.1	.01	.08	.01
Pb	86	143	<10	73	<10
S %	1.2	10.4	.7	4.6	1.0
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	12	81	67	10	19
W	<10	12	<10	<10	<10
Zn	83	101	76	48	16

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/21

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29667	29668	29669	29670	29671
Ag	1.1	2.0	1.2	.6	2.0
Al %	1.1	1.8	2.0	.5	1.5
As	15	16	19	<10	16
Bi	<10	<10	15	<10	<10
Ca %	.08	.1	.08	.05	.2
Cd	22	22	42	<10	25
Co	133	73	63	39	90
Cr	128	118	358	103	220
Cu	78	122	124	229	235
Fe %	12.5	12.3	15.3	7.4	15.6
Mg %	.8	1.8	1.6	.3	.9
Mn	417	575	635	237	541
Mo	15	21	51	<10	17
Ni	130	171	141	106	69
P %	.09	.1	.1	.01	.1
Pb	95	115	131	25	116
S %	9.8	8.8	9.7	5.2	5.6
Sb	<10	<10	22	<10	17
Sr	<10	<10	<10	<10	10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	26	52	78	17	44
W	15	19	56	<10	10
Zn	82	276	370	137	272

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/22

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29672	29673	29674	29675
Ag	1.7	1.6	1.5	1.2
Al %	3.3	.06	.1	.1
As	20	<10	<10	<10
Bi	15	<10	<10	<10
Ca %	.1	.4	.2	.07
Cd	41	<10	17	<10
Co	82	<10	<10	<10
Cr	550	27	29	15
Cu	118	33	64	39
Fe %	16.5	23	9.3	3.2
Mg %	2.4	.04	.1	.05
Mn	943	325	417	156
Mo	56	<10	<10	<10
Ni	120	19	27	14
P %	.1	.01	.01	.01
Pb	154	<10	37	<10
S %	7.5	.3	.3	.1
Sb	26	<10	<10	<10
Sr	<10	<10	<10	<10
Th	10	<10	<10	<10
U	<10	<10	<10	<10
V	98	<10	12	<10
W	15	<10	<10	<10
Zn	216	50	55	85

ASSAYERS (ONTARIO) LIMITED

J. van Engelen Mgr.





ASSAYTEK INC.

2501A WILSON BLVD.

TEL: (416) 299-9527

FAX: (416) 299-3112

3

Certificate No. QR-07/01/7966

August 9, 1988

Received 99

Rock

Submitted by Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb	Sample No.	Au ppb
29530 GZ	9	29550 qv, GZ	59	29570 GZ, IS	25
29531 GZ	12	29551 GZ	67	29571 GZ, IS	42
29532 GZ	30	29552 GZ	63	29572 MS, qv	34
29533 GZ	35	29553 GZ	55	29573 MS, qv	28
29534 GZ	23	29554 GZ	47	29574 MS, qv, GZ	40
29535 GZ	21	29555 GZ	37	29575 qv, IS	31
29536 GZ	15	29556 ACT, IS	48	29576 qv, IS	36
29537 GZ	11	29557 ACT, IS	59	29577 qv, IS	29
29538 GZ	12	29558 V4, IS	36	29578 GZ, 3S, V1	15
29539 GZ	31	29559 GZ, V4	50	29579 V1, GZ, IS	16
29540 GZ	13	29560 GZ, V4	16	29580 V1, GZ, IS	25
29541 GZ	39	29561 GZ, V4	67	29581 V1, GZ, IS	10
29542 GZ	16	29562 GZ, V4, 3S	70	29582 GZ, V2, IS	27
29543 GZ	32	29563 GZ, qv	37	29583 V1, GZ, IS	52
29544 V4, IS	43	29564 GZ, qv	37	29584 V1, GZ, IS	49
29545 V4, qv, GZ	18	29565 GZ, qv, V4	32	29585 V4, 10S	47
29546 V4, qv, GZ	16	29566 GZ, qv, V4	23	29586 V4, 10S	29
29547 GZ, qv	10	29567 V4, GZ, qv	10	29587 V4, 10S	30
29548 GZ, qv	12	29568 V4, IS	13	29588 V4, 10S	35
29549 qv, GZ	28	29569 GZ, qv, IS	15	29589 V4, 15S	43

  
 J. van Engelen Mgr.  
 REPRESENTATION

ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

Certificate No. QR-07/03/7966

Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29530	29531	29532	29533	29534
Ag	.9	.8	1.4	.3	.8
Al %	.7	.7	.7	.4	.1
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.3	.3	.5	.2	.06
Cd	11	<10	<10	<10	<10
Co	27	13	28	<10	<10
Cr	97	123	133	89	42
Cu	140	119	188	82	27
Fe %	9.2	4.1	6.5	3.7	1.7
Mg %	.6	.7	.7	.4	.1
Mn	551	330	407	228	88
Mo	<10	<10	<10	<10	<10
Ni	50	34	50	26	10
P %	.03	.02	.02	.03	.02
Pb	58	47	68	37	10
S %	.9	.5	1.5	.5	.4
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	75	35	65	40	27
W	<10	<10	<10	<10	<10
Zn	69	18	62	35	24

ASSAYERS (ONTARIO) LIMITED

J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

Certificate No. QR-07/04

Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29535	29536	29537	29538	29539
Ag	.4	.3	.7	<.1	.3
Al %	.2	.1	.3	.5	.5
As	<10	<10	<10	11	<10
Bi	<10	<10	<10	<10	<10
Ca %	.1	.07	.2	.3	.2
Cd	<10	<10	<10	11	<10
Co	<10	<10	14	48	29
Cr	58	35	70	91	118
Cu	54	23	58	61	83
Fe %	2.2	1.3	2.4	2.2	3.1
Mg %	.1	.1	.3	.5	.5
Mn	150	76	132	175	268
Mo	<10	<10	<10	13	<10
Ni	17	<10	48	99	118
P %	.02	.02	.01	.07	.01
Pb	23	21	<10	30	18
S %	.2	.2	.2	.4	.8
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	26	21	23	25	37
W	<10	<10	<10	<10	<10
Zn	23	17	15	26	21

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CERTIFICATE OF ANALYSIS

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Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29540	29541	29542	29543	29544
Ag	2.9	5.3	16.8	2.6	.8
Al %	.5	.6	1.1	.5	1.5
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.3	.3	.4	.2	.3
Cd	<10	<10	<10	<10	<10
Co	32	39	18	11	21
Cr	118	146	174	93	182
Cu	69	71	39	54	52
Fe %	2.4	3.2	2.6	2.7	3.4
Mg %	.5	.7	1.4	.5	2.3
Mn	231	298	390	222	281
Mo	<10	<10	<10	<10	<10
Ni	126	153	72	47	97
P %	.01	.02	.02	.02	.05
Pb	<10	<10	16	20	44
S %	.8	1.1	.4	.3	.2
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	37	45	53	35	57
W	<10	<10	<10	<10	<10
Zn	19	20	24	27	85

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CERTIFICATE OF ANALYSIS

Certificate No. QR-07/06

Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29545	29546	29547	29548	29549
Ag	.5	3.2	2.3	2.6	.6
Al %	.5	.3	.08	.08	.04
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.6	.3	.1	.1	.08
Cd	28	13	25	14	30
Co	49	35	35	36	43
Cr	77	29	31	26	30
Cu	87	72	71	109	83
Fe %	4.4	4.5	4.4	5.2	5.5
Mg %	.7	.1	.06	.04	.03
Mn	430	362	213	137	215
Mo	16	<10	<10	<10	11
Ni	53	25	31	27	27
P %	.09	.07	.06	.07	.08
Pb	37	37	31	69	51
S %	.2	.1	.1	.3	.2
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	24	15	10	12	<10
W	<10	<10	<10	<10	<10
Zn	148	91	131	258	169

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ASSAYERS (ONTARIO) LIMITED

CERTIFICATE OF ANALYSIS

Certificate No. QR-07/07

Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29550	29551	29552	29553	29554
Ag	.7	1.0	1.6	.9	.7
Al %	.02	.2	.6	.1	.8
As	<10	<10	14	17	13
Bi	<10	<10	<10	<10	<10
Ca %	.06	.09	.1	.09	.08
Cd	10	30	21	36	16
Co	29	41	51	59	40
Cr	18	37	50	32	444
Cu	28	165	204	161	71
Fe %	1.9	10.3	12.6	11.4	7.0
Mg %	.02	.2	.6	.08	1.6
Mn	80	380	724	419	229
Mo	<10	17	<10	44	<10
Ni	14	44	55	63	41
P %	.06	.07	.09	.1	.08
Pb	23	76	142	100	66
S %	.09	.3	.3	.2	.3
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	16	25	17	36
W	<10	<10	<10	11	<10
Zn	56	449	541	475	124

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CERTIFICATE OF ANALYSIS

Certificate No. QR-07/08

Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29555	29556	29557	29558	29559
Ag	.5	.6	1.1	.4	1.0
Al %	.6	1.2	1.2	1.1	.4
As	17	<10	<10	<10	<10
Bi	25	<10	<10	<10	<10
Ca %	.06	.1	1.1	.2	.2
Cd	32	<10	13	<10	<10
Co	48	40	64	29	12
Cr	369	820	860	716	119
Cu	51	25	25	10	57
Fe %	5.6	2.8	2.3	2.3	4.2
Mg %	1.2	2.5	2.6	3.8	.7
Mn	153	286	519	216	397
Mo	33	<10	<10	<10	<10
Ni	36	346	719	386	62
P %	.09	.01	.01	.01	.03
Pb	50	24	22	23	26
S %	.3	.1	.2	.08	.7
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	27	43	43	49	29
W	<10	<10	<10	<10	<10
Zn	58	66	77	32	180

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Date: August 10, 1988

Received: 99

Samples Of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T. J. Beesley

RESULTS IN PPM

	29560	29561	29562	29563	29564
Ag	.6	.5	1.0	.4	1.0
Al %	.9	.4	.5	.4	1.2
As	20	<10	17	<10	<10
Bi	<10	<10	<10	<10	11
Ca %	.5	.5	.3	.1	.09
Cd	18	13	19	11	16
Co	17	15	41	19	18
Cr	109	54	51	75	600
Cu	61	76	85	93	119
Fe %	3.2	3.9	2.6	8.2	15.4
Mg %	1.3	.3	.6	.6	2.2
Mn	586	317	184	294	652
Mo	<10	<10	<10	<10	<10
Ni	47	52	63	40	50
P %	.1	.04	.02	.03	.04
Pb	40	22	<10	91	116
S %	1.2	1.3	.8	.6	.4
Sb	<10	<10	<10	<10	<10
Sr	16	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	44	18	22	15	42
W	<10	<10	<10	<10	<10
Zn	97	147	42	58	105

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DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T. J. Beesley

RESULTS IN PPM

	29565	29566	29567	29568	29569
Ag	.9	.4	.5	1.2	.8
Al %	.3	.2	.4	.7	.4
As	<10	<10	<10	150	<10
Bi	<10	<10	<10	<10	<10
Ca %	.1	.1	.3	1.0	.2
Cd	<10	<10	<10	30	<10
Co	<10	<10	19	65	13
Cr	116	91	181	488	59
Cu	37	25	42	55	47
Fe %	3.7	3.2	2.1	3.1	2.2
Mg %	.4	.1	.6	5.3	.7
Mn	161	98	137	618	231
Mo	<10	<10	<10	<10	<10
Ni	22	20	72	367	58
P %	.01	.01	.01	.1	.02
Pb	17	<10	<10	50	10
S %	.1	.1	.1	.1	.8
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	11	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	11	19	18	43	11
W	<10	<10	<10	39	<10
Zn	32	18	22	57	66

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/11

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T. J. Beesley

RESULTS IN PPM

	29570	29571	29572	29573	29574
Ag	1.1	1.3	1.6	1.6	2.2
Al %	.5	.4	.5	.6	.5
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.2	.2	.2	.3	.2
Cd	<10	<10	16	15	<10
Co	33	38	22	25	58
Cr	37	61	65	69	52
Cu	52	81	136	149	80
Fe %	3.6	5.8	17.3	14.7	8.3
Mg %	.5	.5	.5	.6	.4
Mn	268	325	465	510	329
Mo	<10	<10	<10	<10	<10
Ni	62	76	206	177	107
P %	.05	.03	.04	.05	.03
Pb	21	33	94	75	42
S %	2.6	5.8	.2	.1	5.0
Sb	<10	<10	<10	<10	<10
Sr	12	<10	12	15	11
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	11	20	16	21	15
W	<10	<10	<10	<10	<10
Zn	149	189	207	413	208

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/12

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29575	29576	29577	29578	29579
Ag	.8	1.7	1.1	2.6	1.0
Al %	.2	.2	.2	.4	.7
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.1	.1	.1	.1	.3
Cd	<10	<10	<10	<10	12
Co	25	25	14	26	52
Cr	38	47	50	38	35
Cu	60	69	71	139	37
Fe %	4.5	5.7	4.5	7.7	3.2
Mg %	.2	.2	.2	.3	.6
Mn	189	191	211	253	294
Mo	<10	<10	<10	<10	<10
Ni	55	79	68	117	35
P %	.01	.02	.01	.02	.1
Pb	12	11	<10	24	41
S %	2.7	3.9	3.2	4.3	1.3
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	13
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	<10	<10	15	18
W	<10	<10	<10	<10	<10
Zn	137	273	248	150	87

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/13

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29580	29581	29582	29583	29584
Ag	.3	.5	1.3	.9	1.1
Al %	1.0	.6	.4	1.2	.6
As	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10
Ca %	.4	.2	.1	.2	.1
Cd	11	28	13	<10	<10
Co	39	49	59	34	26
Cr	29	32	34	82	44
Cu	18	21	66	168	653
Fe %	2.8	2.1	4.5	5.5	4.2
Mg %	.9	.6	.3	1.1	.5
Mn	362	239	176	364	193
Mo	<10	32	<10	<10	<10
Ni	26	27	108	60	33
P %	.1	.1	.08	.03	.01
Pb	45	30	38	34	16
S %	.7	.6	3.4	2.5	1.9
Sb	<10	<10	<10	<10	<10
Sr	16	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	26	18	19	40	20
W	<10	26	<10	<10	<10
Zn	60	46	34	89	82

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. QR-07/14

DATE: August 10, 1988

Received: 99

Samples of: Rock

Submitted by: Quill Resources Ltd.

Att'n: Mr. T.J. Beesley

RESULTS IN PPM

	29585	29586	29587	29588	29589
Ag	1.7	2.3	.6	.7	.5
Al %	2.1	2.2	2.6	1.7	1.8
As	<10	<10	<10	<10	11
Bi	<10	<10	<10	<10	<10
Ca %	.1	.2	.2	.1	.2
Cd	10	13	11	10	15
Co	55	75	61	78	61
Cr	154	154	192	131	158
Cu	90	54	28	41	88
Fe %	9.1	12.8	10.7	10.1	8.2
Mg %	2.2	2.1	2.7	1.7	1.9
Mn	633	678	765	542	530
Mo	<10	<10	<10	<10	<10
Ni	92	138	121	118	111
P %	.04	.04	.05	.03	.08
Pb	74	114	98	75	89
S %	5.5	9.9	6.7	8.2	5.3
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	11
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	88	90	112	76	91
W	<10	<10	<10	<10	<10
Zn	110	117	132	99	118

ASSAYERS (ONTARIO) LIMITED

J. van Engelen Mgr.



# ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M5Z 2Z2 • TELEPHONE (416) 239-3527  
FAX (416) 239-4012

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## Certificate of Analysis

Certificate No. QR-09/14/8021 Date: August 19, 1988

Received \_\_\_\_\_ 87 Samples of Rock

Submitted by Quill Resources Ltd. Att'n: Mr. T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb	Sample No.	Au ppb
29837	GZ, 15, qv 18	29857	14, 15S, qv 98	29877	qv, V1 24
29838	MS, qv 47	29858	qv, 3S 45	29878	V1, qv, 2S 10
29839	V1, 1S, qv 16	29859	14, 17S, qv 25	29879	qv 16
29840	V1, 1S, qv 10	29860	14, 2S, qv 96	29880	qv, 14 15
29841	GZ, MS 30	29861	14 39	29881	V1, py 14
29842	V1, 10S 34	29862	14, 60S 35	29882	qv, 1S 32
29843	MS, GZ 25	29863	qv 34	29883	V1, 1S 13
29844	MS 62	29864	SHARP, 1S 22	29884	qv, 3S 47
29845	GZ, 8S, qv 31	29865	14, 5S, qv 24	29885	V1 36
29846	qv, V2 19	29866	14, GZ, 1S 16	29886	14, 1S 41
29847	14, GZ 9	29867	MS 26	29696	qv, 3S 46
29848	qv, 5S 7	29868	MS, qv 13	29697	qv 36
29849	14, qv, 8S 16	29869	V1, 1S 17	29698	qv, GZ 38
29850	qv, 10S, 14 12	29870	GZ, qv, CH 9	29699	MS 40
29851	GZ, 1S 20	29871	CH, 25S 20	29700	GZ 26
29852	14, 50S 21	29872	V1, 1S, CH 99	29901	V1, 10S 22
29853	V1, 3S 20	29873	qv, 1S 21	29902	V1, 10S, qv 29
29854	V1, 2S 18	29874	qv, 4S 13	29903	qv, 20S 34
29855	qv, 3S 70	29875	qv, 10S 10	29904	V1, 3S 60
29856	V1, 10S 24	29876	qv, 1S 17	29905	V1, 12S 41

ASSAYERS (ONTARIO) LIMITED

J. Van Engelen Mgr.



# ASSAYERS (ONTARIO) LIMITED

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FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-09/15 Date: August 19, 1988  
Received \_\_\_\_\_ 87 Samples of Rock  
Submitted by Quill Resources Ltd. Att'n: Mr. T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29906 <i>V<sub>1</sub>, 65S</i>	36	29920 <i>V<sub>1</sub>, 10S</i>	46
29907 <i>qv, 20S</i>	51	29921 <i>GZ</i>	42
29908 <i>qv, CH, GZ</i>	34	29922 <i>V<sub>1</sub>, 7S</i>	38
29909 <i>qv, GZ, 2S</i>	29	29923 <i>GZ</i>	36
29910 <i>MS, qv</i>	37	29924 <i>qv, 30S</i>	68
29911 <i>V<sub>1</sub></i>	44	29925 <i>qv</i>	80
29912 <i>qv</i>	(92)	29926 <i>GZ, CH, qv</i>	(96)
29913 <i>GZ, 15S</i>	20	29927 <i>MS, CH</i>	70
29914 <i>V<sub>1</sub>, 10S</i>	29	29928 <i>GZ, 15S</i>	84
29915 <i>GZ</i>	40	29929 <i>MS</i>	49
29916 <i>CH, qv, 2S</i>	51	29930 <i>V<sub>1</sub>, 10S</i>	54
29917 <i>CH, qv</i>	16	29931 <i>GZ, 20S</i>	41
29918 <i>GZ</i>	39	29932 <i>qv, GZ</i>	(86)
29919 <i>qv, 20S</i>	33		

ASSAYERS (ONTARIO) LIMITED

Per \_\_\_\_\_

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-09/01/8021 Date: August 19, 1988  
 Samples Of: Rock 87  
 Submitted by: Quill Resources Ltd. Att'n: Mr. T.J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29837	29838	29839	29840	29841	29842
Ag	.2	1.3	.7	.9	1.1	1.0
Al %	.9	.5	1.3	1.0	.5	1.4
As	<10	<10	<10	<10	13	<10
Bi	<10	<10	<10	<10	<10	<10
Ca %	.1	.1	.1	.2	.2	.2
Cd	<10	12	13	<10	18	11
Co	19	146	44	54	58	171
Cr	134	130	275	248	107	267
Cu	56	99	72	117	154	108
Fe %	3.7	12.7	8.8	6.4	11.1	11.7
Mg %	1.2	.5	1.6	1.2	.5	1.9
Mn	335	320	443	357	294	543
Mo	<10	<10	14	<10	13	<10
Ni	61	91	115	148	253	310
P %	.01	.02	.06	.03	.06	.04
Pb	22	37	71	45	51	70
S %	1.0	8.4	2.3	2.6	5.8	5.6
Sb	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	11	<10
Th	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10
V	52	23	58	34	19	53
W	<10	<10	11	<10	13	<10
Zn	635	152	95	133	345	147

ASSAYERS ONTARIO LABORATORIES

Per J. van Engelen Mgr.





# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHARLTON AVENUE, TORONTO, ONTARIO M4Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-09/02/8021

Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources

Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29843	29844	29845	29846	29847	29848
Ag	1.2	.9	2.1	<.1	<.1	.1
Al %	.2	.3	.3	.2	.8	.3
As	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10
Ca %	.06	.1	.3	.1	.5	.1
Cd	29	25	12	10	<10	<10
Co	89	144	118	39	35	64
Cr	57	72	58	71	217	63
Cu	163	92	115	39	116	250
Fe %	28.9	16.8	10.6	3.2	5.2	5.0
Mg %	.1	.4	.1	.2	.4	.3
Mn	455	394	229	138	594	198
Mo	<10	12	<10	<10	<10	<10
Ni	96	174	120	58	106	112
P %	.04	.06	.03	.04	.02	.02
Pb	72	5.3	36	15	18	12
S %	6.7	8.6	7.8	1.8	1.6	3.2
Sb	<10	<10	<10	<10	<10	<10
Sr	<10	<10	12	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10
V	18	15	16	11	29	16
W	<10	15	<10	<10	<10	<10
Zn	313	443	157	71	69	47

ASSAYERS ONTARIO LABORATORIES

Per

*J. van Engelen*  
J. van Engelen Mgr.



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33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-09/03/ 8021 Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29849	29850	29851	29852	29853	29854
Ag	.3	.3	<.1	.4	<.1	<.1
Al %	.8	.4	.6	.7	.8	.7
As	<10	70	<10	10	<10	<10
Bi	<10	14	<10	15	<10	11
Ca %	.1	.1	.1	.1	.1	.1
Cd	<10	16	<10	16	<10	11
Co	83	107	30	126	34	41
Cr	148	78	33	86	31	31
Cu	255	355	177	41	148	181
Fe %	7.1	9.9	4.7	10.0	4.3	4.7
Mg %	.8	.4	.6	.7	.8	.8
Mn	400	308	242	355	322	311
Mo	<10	<10	<10	<10	<10	<10
Ni	209	359	91	294	81	61
P %	.03	.06	.03	.03	.06	.03
Pb	28	41	18	60	22	28
S %	3.0	4.8	1.9	2.2	1.0	1.0
Sb	<10	12	<10	13	<10	<10
Sr	<10	<10	<10	<10	<10	<10
Th	13	15	<10	17	<10	<10
U	<10	<10	<10	<10	<10	<10
V	46	22	23	31	32	31
W	<10	14	<10	<10	<10	<10
Zn	87	86	59	108	99	75

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## Certificate of Analysis

Certificate No. QR-09/04/8021

Date: August 19, 1988

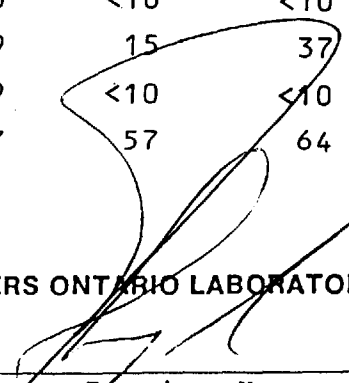
Samples Of: Rock 87

Submitted by: Quill Resources Ltd. Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29855	29856	29857	29858	29859	29860	29861
Ag	<.1	.3	1.2	.9	1.5	.5	.5
Al %	.4	2.1	1.8	1.3	1.6	.7	1.1
As	<10	11	<10	10	11	<10	<10
Bi	<10	13	<10	12	14	<10	<10
Ca %	.09	.2	.1	.2	.2	.1	.2
Cd	<10	14	10	11	15	<10	<10
Co	18	52	102	52	110	28	27
Cr	29	305	229	73	150	268	92
Cu	90	126	391	174	448	185	102
Fe %	2.5	8.2	11.1	6.2	10.8	3.9	3.5
Mg %	.4	2.1	1.6	1.1	1.3	.7	1.3
Mn	172	564	552	479	479	247	293
Mo	<10	10	<10	12	21	<10	<10
Ni	34	130	302	153	362	181	126
P %	.01	.07	.05	.1	.1	.02	.03
Pb	<10	75	56	43	79	13	21
S %	.8	2.2	6.6	2.1	5.6	1.0	.6
Sb	<10	17	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	21	10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	18	122	67	44	59	15	37
W	<10	19	<10	<10	19	<10	<10
Zn	47	128	102	76	97	57	64

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## Certificate of Analysis

Certificate No. QR-09/05/8021 Date: August 19, 1988  
 Samples Of: Rock 87  
 Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29862	29863	29864	29865	29866	29867	29868
Ag	1.2	.7	1.2	1.0	1.2	2.1	2.1
Al %	1.4	.3	2.7	.6	1.6	.5	.7
As	22	<10	<10	<10	25	54	<10
Bi	17	<10	<10	<10	14	23	13
Ca %	.1	.09	.1	.2	.1	.1	.1
Cd	19	<10	<10	<10	17	32	17
Co	97	66	45	44	47	118	125
Cr	162	47	708	47	1260	190	401
Cu	346	139	157	148	111	396	347
Fe %	13.3	4.2	9.8	7.5	7.1	22.7	16.0
Mg %	1.2	.3	2.9	.5	2.0	.5	.8
Mn	453	160	653	385	937	551	565
Mo	27	<10	<10	<10	.7	21	<10
Ni	592	130	216	406	328	1418	953
P %	.08	.01	.05	.06	.06	.07	.03
Pb	64	13	75	40	64	76	70
S %	4.5	2.2	3.7	3.5	2.5	4.6	3.4
Sb	11	<10	10	<10	<10	13	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	12	<10	14	<10	<10	10	<10
U	13	<10	10	<10	<10	<10	<10
V	50	14	107	16	63	16	32
W	21	<10	<10	<10	12	10	<10
Zn	97	45	127	114	134	503	259

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## Certificate of Analysis

Certificate No. QR-09/06/8021 Date: August 19, 1988  
Samples Of: Rock 87  
Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29869	29870	29871	29872	29873	29874	29875
Ag	.4	1.3	1.5	.4	.3	.4	1.0
Al %	.5	.4	.8	.7	.4	.3	.7
As	<10	11	<10	19	<10	<10	15
Bi	<10	11	<10	12	<10	13	<10
Ca %	.1	.09	.1	.1	.08	.1	.5
Cd	<10	12	<10	12	<10	13	<10
Co	15	22	40	32	<10	106	44
Cr	550	114	51	49	35	46	267
Cu	42	148	78	58	40	100	75
Fe %	2.7	7.4	6.8	4.6	2.4	7.0	5.9
Mg %	.5	.4	1.0	.9	.6	.4	.9
Mn	243	280	591	471	267	346	606
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	95	63	76	54	37	142	103
P %	.02	.05	.04	.06	.01	.05	.02
Pb	<10	37	30	28	<10	31	22
S %	.4	1.1	4.8	2.4	.5	3.3	2.9
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	11	12
U	<10	<10	<10	<10	<10	10	<10
V	14	23	29	19	<10	<10	21
W	<10	<10	<10	<10	<10	<10	11
Zn	75	86	82	68	52	71	114

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## Certificate of Analysis

Certificate No. QR-09/07/8021 Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29876	29877	29878	29879	29880	29881	29882
Ag	<.1	.5	.3	<.1	<.1	<.1	<.1
Al %	.2	.4	.3	.08	.3	.4	.3
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	11	<10	<10	<10	<10
Ca %	.1	.3	.1	.06	.4	.2	.08
Cd	<10	<10	11	<10	10	<10	<10
Co	<10	24	26	<10	20	<10	<10
Cr	84	121	47	22	34	39	55
Cu	32	122	98	30	43	36	61
Fe %	2.0	5.3	4.3	1.4	1.4	1.8	3.1
Mg %	.2	.3	.3	.09	.3	.4	.2
Mn	207	366	239	94	158	149	136
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	34	103	74	26	38	26	34
P %	.01	.04	.05	.01	.1	.04	.01
Pb	<10	29	37	<10	22	18	13
S %	.9	2.5	1.6	.4	.1	.1	.8
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	17	<10	<10	<10	13	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	12	13	<10	<10	19	14
W	<10	<10	<10	<10	<10	<10	<10
Zn	63	118	61	35	41	43	32

ASSAYERS ONTARIO LABORATORIES

Per

  
J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

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## Certificate of Analysis

Certificate No. QR-09/08/8021 Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources Ltd. Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29883	29884	29885	29886	29696	29697	29698
Ag	.2	<10	.2	.2	.8	.2	.8
Al %	1.0	.2	.4	1.0	.7	.2	.1
As	12	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.1	.1	.1	.3	.2	.1	.08
Cd	10	<10	<10	<10	<10	10	<10
Co	18	<10	<10	33	13	20	11
Cr	129	56	40	99	37	42	34
Cu	98	52	37	139	55	55	82
Fe %	4.3	2.2	2.1	2.4	4.0	2.0	4.0
Mg %	.9	.2	.4	1.5	.8	.2	.1
Mn	253	167	212	208	314	114	142
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	68	38	26	200	70	64	89
P %	.05	.01	.02	.07	.04	.04	.01
Pb	42	10	20	23	24	24	11
S %	.3	.3	.3	.7	1.5	.5	.7
Sb	10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	10	<10	<10
Th	11	<10	<10	11	<10	<10	<10
U	19	<10	<10	<10	<10	<10	<10
V	56	15	16	14	17	<10	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	58	34	57	53	100	123	933

ASSAYERS ONTARIO LABORATORIES

By

*J. van Engelen*  
J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

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## Certificate of Analysis

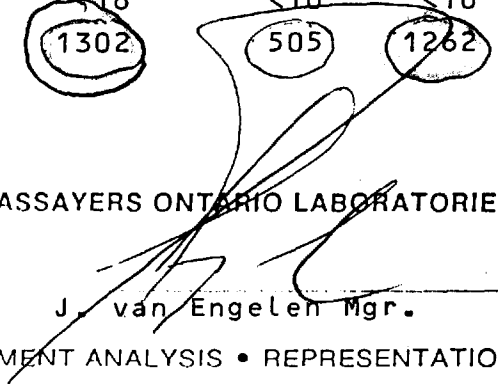
Certificate No. QR-09/09/8021 Date: August 19, 1988  
Samples Of: Rock 87  
Submitted by: Quill Resources Ltd Att'n: Mr. T.J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29699	29700	29901	29902	29903	29904	29905
Ag	2.4	1.0	1.8	1.6	2.3	1.2	1.9
Al %	.3	.1	.2	.2	.3	.5	.3
As	<10	<10	20	<10	18	<10	<10
Bi	<10	<10	<10	<10	19	<10	<10
Ca %	.4	.1	.8	.4	.3	.2	.2
Cd	18	13	22	12	26	10	14
Co	15	29	71	48	45	20	26
Cr	44	32	45	33	46	48	41
Cu	285	72	171	171	259	131	160
Fe %	15.0	6.3	11.4	10.0	16.0	8.2	11.2
Mg %	.2	.09	.2	.1	.2	.6	.3
Mn	401	160	400	270	393	393	337
Mo	<10	<10	17	<10	13	<10	<10
Ni	29	47	217	191	339	149	220
P %	.03	.04	.06	.02	.06	.03	.03
Pb	66	26	61	42	61	42	37
S %	8.3	1.0	4.3	3.4	2.6	1.7	2.2
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	13	<10	12	10	14	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	13	12	<10	12	16	10
W	<10	<10	15	<10	16	<10	<10
Zn	1200	161	1003	836	1302	505	1262

ASSAYERS ONTARIO LABORATORIES

Per

  
J. van Engelen Mgr.





# ASSAYERS ONTARIO LABORATORIES

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## Certificate of Analysis

Certificate No. QR-09/10/8021 Date: August 19, 1988  
 Samples Of: Rock 87  
 Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29906	29907	29908	29909	29910	29911	29912
Ag	2.2	1.5	1.4	1.1	2.6	.6	.8
Al %	.3	.2	.2	.2	.2	.3	.3
As	<10	<10	<10	28	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	12
Ca %	.1	.1	.1	.1	.6	.3	.2
Cd	19	12	12	16	21	<10	15
Co	55	45	41	39	149	43	62
Cr	78	71	67	55	39	28	36
Cu	287	193	162	146	180	66	83
Fe %	21.6	13.7	12.2	9.9	16.8	5.2	5.6
Mg %	.3	.2	.2	.2	.1	.4	.3
Mn	421	319	290	260	377	239	199
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	452	272	243	154	260	81	94
P %	.04	.03	.03	.07	.04	.02	.07
Pb	57	35	38	42	49	14	22
S %	4.3	3.5	2.8	2.9	6.6	2.1	3.6
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	<10	10	11	<10	10	10
W	<10	<10	<10	<10	15	<10	<10
Zn	248	245	228	286	1389	751	273

ASSAYERS ONTARIO LABORATORIES

Per

J. van Engelen Mgr.



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## Certificate of Analysis

Certificate No. QR-09/11/8021 Date: August 19, 1988  
 Samples Of: Rock 87  
 Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29913	29914	29915	29916	29917	29918	29919
Ag	1.2	1.1	1.9	<.1	<.1	.2	.8
Al %	.4	.6	.3	.1	.1	.5	.5
As	10	<10	<10	<10	<10	<10	28
Bi	<10	11	<10	<10	<10	<10	<10
Ca %	.1	.2	.2	.1	.1	.1	.3
Cd	17	13	11	<10	<10	<10	160
Co	75	54	396	34	25	<10	31
Cr	44	52	39	33	35	45	111
Cu	45	64	69	40	37	40	261
Fe %	8.8	6.9	10.1	3.0	1.9	1.9	14.5
Mg %	.4	.5	.3	.1	.1	.6	.6
Mn	253	301	232	140	118	188	431
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	70	89	86	29	22	23	240
P %	.06	.06	.02	.01	.04	.01	.05
Pb	40	30	75	<10	<10	<10	48
S %	7.0	4.9	10.9	1.6	.6	.5	6.3
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	10	12	<10	<10	<10	11
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	21	18	16	<10	<10	15	17
W	<10	<10	<10	<10	<10	<10	<10
Zn	82	152	213	56	76	26	54 2.53%

ASSAYERS ONTARIO LABORATORIES

Per

*J. van Engelen*  
J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

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## Certificate of Analysis

Certificate No. QR-09/12/8021 Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources Ltd Att'n: Mr. T. J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29920	29921	29922	29923	29924	29925	29926
Ag	.7	.6	<.1	<.1	.4	.2	.1
Al %	.5	.5	.3	.4	.1	.1	.3
As	20	15	86	<10	<10	<10	<10
Bi	<10	<10	15	<10	<10	<10	<10
Ca %	.5	.3	.2	.7	.2	.1	.1
Cd	39	10	17	<10	<10	<10	<10
Co	94	37	123	<10	20	32	20
Cr	62	46	47	25	25	27	57
Cu	123	139	154	40	40	35	58
Fe %	11.1	8.4	9.7	2.4	1.9	2.5	2.7
Mg %	.5	.5	.3	.4	.1	.1	.4
Mn	338	306	244	188	95	104	166
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	156	98	128	27	46	54	24
P %	.04	.06	.07	.02	.04	.01	.07
Pb	31	24	49	<10	<10	<10	29
S %	4.7	4.2	8.1	.6	.9	1.6	.6
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	13	10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	20	23	15	10	<10	<10	26
W	13	<10	<10	<10	<10	<10	<10
Zn	5377	538	295	358	149	77	92

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-09/13/8021

Date: August 19, 1988

Samples Of: Rock 87

Submitted by: Quill Resources Ltd. Att'n: Mr. T.J. Beesley

### GEO-SCAN — RESULTS IN PPM

	29927	29928	29929	29930	29931	29932
Ag	1.3	1.8	.8	.8	1.9	.4
Al %	.4	1.0	.2	.4	1.1	.2
As	<10	<10	<10	<10	10	<10
Bi	<10	<10	<10	<10	<10	<10
Ca %	.08	.09	.08	.3	.09	.06
Cd	21	13	15	12	21	<10
Co	94	69	53	31	82	28
Cr	35	37	33	33	37	34
Cu	37	34	22	47	29	34
Fe %	12.1	11.4	12.0	8.5	10.7	3.6
Mg %	.4	1.0	.2	.4	1.0	.2
Mn	412	722	286	375	761	260
Mo	<10	<10	<10	<10	12	<10
Ni	61	49	45	66	43	25
P %	.05	.03	.03	.1	.07	.03
Pb	432	325	57	44	173	52
S %	11.5	9.5	12.9	8.0	8.6	2.4
Sb	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	19	<10	<10
Th	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10
V	11	23	<10	12	23	<10
W	<10	<10	<10	<10	12	<10
Zn	122	108	108	778	134	65

ASSAYERS ONTARIO LABORATORIES

Per 



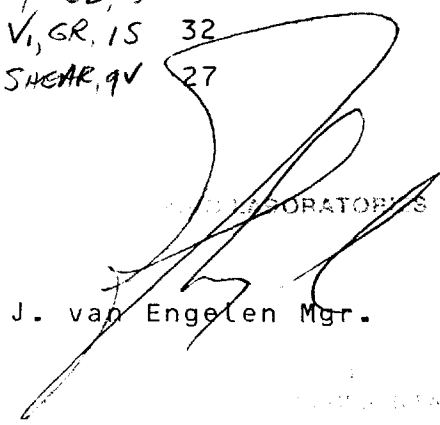
**ASS**  
 A DIVISION OF  
 33 CHANCELLERY AVENUE

TELEPHONE (416) 239-3527  
 FAX (416) 239-4012

5

Certificate No. QR-10/01/8078 Date September 7, 1988  
 Received .73 Rock   
 Submitted by Quill Resources Ltd. Att'n: Mr. Gordon Lewis  
 c.c.: Mr. T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29933 V <sub>4</sub> , qv	36	29894 14, GR, 15	22
29934 V <sub>4</sub> , qv	40	29895 qv, GZ, 15, GR25	
29935 qv	42	29896 qv, 35	16
29936 qv, GZ	37	29897 qv, 20S	15
29937 V <sub>4</sub> , qv	35	29898 qv	28
29938 qv	31	29899 qv, 40S	20
29939 V <sub>4</sub> , qv	26	29900 qv, 10S	10
29940 14, 10S, qv	42	29701 SHEAR, GZ	34
29941 V <sub>1</sub> , GZ	40	29702 SHEAR, qv, 25	23
29942 qv	42	29703 qv, 15	15
29943 14	46	29704 qv, GZ	22
29944 qv	23	29705 qv, GR	40
29945 GZ, 13	28	29706 qv	20
29887 V <sub>1</sub> , GR, GZ	36	29707 qv, GP4	25
29888 GZ, GR, qv	33	29708 qv, 12S	28
29889 GZ, qv	29	29709 qv, MT, 25	38
29890 GZ, 10S	36	29710 MS, MT, GZ	27
29891 GZ, qv, 5S	47	29711 qv GZ, 25	21
29892 14, GZ, GR, 2532		29712 V <sub>1</sub> , GR, 15	32
29893 CH, GR, 25	10	29713 SHEAR, qv	27

  
 J. van Engelen Mgr.  
 ANALYTICAL SERVICES  
 LABORATORIES



# ASSAYERS AND ANALYTICAL LABORATORIES

A DIVISION OF ASSAYERS AND ANALYTICAL LABORATORIES

33 CHALMERS AVENUE

PHOENIX (416) 239-3527

TORONTO (416) 239-4012

Certificate No. QR-10/02/8078

Date September 7, 1988

Received 73

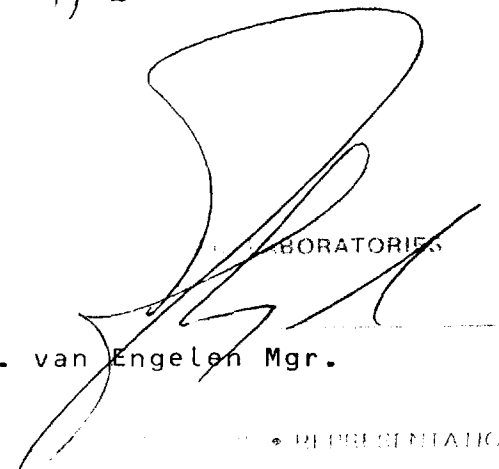
Rock \_\_\_\_\_

Submitted by Quill Resources Ltd.

Att'n: Mr. Gordon Lewis

c.c.: Mr. T. J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29714 V <sub>1</sub> , IS, GR	21	29731 GZ, IS	32
29715 qv, GR	34	29732 MS	29
29716 MS	25	29733 MS	25
29717 CHLR, 30S	20	29734 V <sub>3</sub> , SS, MUSE	20
29718 MS, CHLR	33	29735 V <sub>3</sub> , MUSE, qv	43
29719 V <sub>1</sub> , SS, GR	32	29736 V <sub>3</sub> , qv, IS	32
29720 MS, CHLR, qv, V <sub>1</sub>	36	29737 qv, V <sub>1</sub>	28
29721 MS, GR	31	29738 V <sub>1</sub>	31
29722 V <sub>1</sub> , GR, SS	28	29739 V <sub>1</sub> , MUSE	33
29723 MS, GZ	30	29740 V <sub>1</sub> , GR, BIOT	30
29724 V <sub>1</sub> , ZS	27	29741 qv	23
29725 V <sub>1</sub> , ZS	38	29742 qv	21
29726 V <sub>1</sub> , 30S	40	29743 V <sub>1</sub> , IS	10
29727 V <sub>1</sub>	34	29744 V <sub>1</sub> , TS	12
29728 qv	26	29745 V <sub>1</sub> , qv, 4S	60
29729 qv, V <sub>3</sub>	20	29746 V <sub>1</sub> , 3S	11
29730 GZ, IS	15		

  
LABORATORIES  
J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ASSOCIATION OF ONTARIO

33 CHALMERS AVENUE, TORONTO, ONT. M5S 1K5

TELEPHONE (416) 239-3527 FAX (416) 239-4012

Analysis

Certificate No. QR-10/01/8078

September 7, 1988

Samples Of: Rock 73

Submitted by: Quill Resources Ltd.

Analyst: Mr. Gordon Lewis  
C.C.: Mr. T. J. Beesley

## GLS SCAN RESULTS IN PPM

	29933	29934	29935	29936	29937	29938	29939
Ag	<.1	.2	<.1	.1	.2	.2	.2
Al %	.04	.06	.02	.01	.01	.01	.01
As	<10	<10	<10	<10	<10	<10	28
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.2	.3	.1	.08	.09	.06	.07
Cd	<10	10	<10	<10	10	<10	<10
Co	16	17	<10	15	18	<10	10
Cr	39	30	18	28	27	17	13
Cu	54	29	123	23	23	15	12
Fe %	3.6	3.6	3.4	3.2	4.4	1.6	1.7
Mg %	.05	.1	.03	.03	.04	.02	.02
Mn	26	275	223	782	1514	129	102
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	26	21	12	16	19	<10	<10
P %	.04	.04	.01	.03	.04	<.01	.03
Pb	22	22	<10	<10	<10	<10	<10
S %	.9	.5	.3	.6	.9	.08	.1
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	18	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	<10	<10	<10	<10	<10	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	24	30	14	25	24	10	14

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHANCELY AVENUE, TORONTO, ONTARIO M6H 2P7 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. **QR-10/02/8078**

Date **September 7, 1988**

Samples Of: **Rock 73**

Submitted by: **Quill Resources Ltd.**

Analyst: **Mr. Gordon Lewis**

c.c.o.: Mr. T. J. Beesley

	29940	29941	29942	29943	29944	29945
Ag	1.6	.4	.2	1.6	<.1	<.1
Al %	3.0	.4	.07	1.5	.2	.9
As	<10	37	<10	<10	<10	27
Bi	<10	<10	<10	<10	<10	<10
Ca %	.4	.3	.1	.3	.2	1.6
Cd	<10	<10	<10	<10	<10	11
Co	50	22	<10	21	<10	28
Cr	18	21	19	75	25	86
Cu	17	11	15	73	26	259
Fe %	10.5	1.7	.8	5.1	1.1	3.3
Mg %	2.1	.4	.07	1.3	.1	.6
Mn	2067	249	94	437	140	457
Mo	<10	<10	<10	<10	<10	<10
Ni	46	24	<10	40	14	44
P %	.09	.07	<.01	.03	.01	.06
Pb	80	16	<10	37	<10	23
S %	.07	.05	.01	.09	.04	.4
Sb	<10	<10	<10	<10	<10	<10
Sr	<10	11	<10	<10	<10	11
Th	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10
V	81	45	<10	108	12	55
W	<10	<10	<10	<10	<10	<10
Zn	205	39	12	48	13	38

ASSAYERS ONTARIO LABORATORIES

*J. van Engelen Mgr.*

ANALYSIS • REPRESENTATION

ANALYTICAL DIVISION

ANALYTIKLABORATORIEN





**ASSA**  
 A DIVISION OF  
 WILFRED BRANT

18

TEL (416) 239-3527 FAX (416) 239-4012

### Certificate of Analysis

Certificate No. QR-10/03/8078  
 Samples Of: Rock 73  
 Submitted by: Quill Resources Ltd.

Date: September 7, 1988  
 Att'n: Mr. Gordon Lewis  
 c.c.: Mr. T. J. Beesley

ANALYTICAL RESULTS IN PPM

	29887	29888	29889	29890	29891	29892	29893
Ag	.1	<.1	.1	.4	.6	<.1	.4
Al %	.7	.5	.7	1.9	1.0	.3	.07
As	25	<10	22	38	<10	19	<10
Bi	<10	<10	<10	11	<10	<10	<10
Ca %	.1	.3	.09	.06	.1	.2	.08
Cd	10	<10	<10	14	13	10	<10
Co	23	<10	16	21	16	17	<10
Cr	20	33	24	22	49	21	17
Cu	52	39	34	27	39	189	29
Fe %	4.1	3.2	3.9	8.2	4.2	4.3	1.8
Mg %	.3	.3	.2	.7	1.1	.1	.05
Mn	307	260	952	2051	681	426	385
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	15	13	13	30	20	14	16
P %	.05	.1	.06	.05	.05	.04	.01
Pb	32	<10	27	64	24	14	<10
S %	.4	.5	.2	1.5	.4	.1	.5
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	14	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	38	17	24	47	14	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	30	31	39	83	49	82	32

MINISTERS OF ONTARIO LABORATORIES

*J. van Engelen*  
 J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHALMERS AVENUE

SCARBOROUGH, ONTARIO

TELEPHONE (416) 239-3527 FAX (416) 239-4012

## ANALYTICAL CERTIFICATE

Certificate No. **QR-10/04/8078**

**September 7, 1988**

Samples Of: **Rock 73**

Submitted by: **Quill Resources Ltd.**

**Mr. Gordon Lewis**

c.c.: **Mr. T.J. Beesley**

CONCENTRATIONS IN PPM

	29894	29895	29896	29897	29898	29899	29900
Ag	<.1	.1	.1	.8	.2	.5	.4
Al %	.03	.03	.03	.1	.01	.06	.08
As	27	<10	<10	<10	<10	21	12
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.07	.07	.06	.07	.05	.06	.08
Cd	<10	<10	<10	16	<10	10	10
Co	15	<10	<10	33	<10	21	18
Cr	18	14	28	41	34	29	29
Cu	27	22	44	77	45	47	40
Fe %	2.4	2.0	4.3	12.1	2.4	5.1	4.5
Mg %	.03	.03	.04	.1	.02	.07	.06
Mn	324	289	219	696	181	331	614
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	14	<10	29	73	18	36	27
P %	.03	.01	.01	.05	.01	.04	.04
Pb	10	<10	<10	50	<10	16	11
S %	.6	.1	1.7	5.7	.4	2.6	1.4
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	<10	<10	<10	<10	<10	<10
W	<10	<10	<10	<10	<10	<10	<10
Zn	99	25	28	42	18	23	116

ASSAYERS ONTARIO LABORATORIES

*J. van Engelen*  
J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LIMITED

33 CHAMPLAIN AVENUE, SUITE 100, MISSISSAUGA, ONTARIO L4V 1R4 TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Chemical Analysis

Certificate No. **QR-10/05/8078** Date **September 7, 1988**

Samples Of: **Rock 73**

Submitted by: **Quill Resources Ltd.** Anal. **Mr. Gordon Lewis**  
 c.c.: **Mr. T. J. Beesley**

QUILL RESOURCES LTD. 100% OWNED BY QUILL MINING CORP.

	29701	29702	29703	29704	29705	29706	29707	29708
Ag	.9	.1	<.1	<.1	.1	<.1	1.3	1.3
Al %	.07	.01	.01	.01	.02	.01	.02	.04
As	<10	<10	<10	20	22	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.08	.06	.06	.05	.1	.07	.07	.1
Cd	12	<10	<10	<10	<10	<10	23	19
Co	19	<10	11	15	15	11	63	38
Cr	20	20	31	26	41	40	36	38
Cu	27	27	37	32	51	54	100	88
Fe %	7.4	3.3	2.0	2.0	2.6	2.0	18.1	15.3
Mg %	.05	.02	.01	.01	.04	.02	.04	.06
Mn	581	226	187	111	409	181	475	592
Mo	<10	<10	<10	<10	<10	<10	<10	<10
Ni	20	12	14	12	18	18	108	103
P %	.04	.01	.03	.03	.04	.02	.06	.05
Pb	27	<10	<10	<10	<10	<10	64	53
S %	.6	.1	.08	.07	.1	.1	4.6	5.4
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	<10	<10	<10	<10	<10	<10	<10	<10
W	<10	<10	<10	<10	<10	<10	<10	<10
Zn	42	32	16	17	21	15	34	34

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.

LABORATORY REPRESENTATION



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHANCELLERY AVENUE, TORONTO, ONT. M5T 1B7

TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Analysis

Certificate No. **QR-10/06/8078**  
 Samples Of **Rock 73.**  
 Submitted by: **Quill Resources Ltd.**

Date **September 8, 1988**  
 Analyzed by **Mr. Gordon Lewis**  
 Checked by **Mr. T. J. Beesley**

	29709	29710	29711	29712	29713
Ag	.1	.4	.1	.1	.2
Al %	.04	.09	1.0	1.1	1.4
As	35	<10	<10	21	47
Bi	<10	<10	<10	<10	<10
Ca %	.09	.09	.4	.3	.5
Cd	11	12	13	11	16
Co	20	15	10	23	33
Cr	31	25	35	66	88
Cu	40	52	22	33	43
Fe %	4.8	12.3	4.7	4.8	6.4
Mg %	.05	.08	.5	.6	.8
Mn	387	706	762	567	745
Mo	<10	<10	<10	<10	<10
Ni	27	54	24	41	55
P %	.04	.02	.1	.1	.1
Pb	10	33	22	37	53
S %	1.1	4.7	.4	.6	.8
Sb	<10	<10	<10	<10	<10
Sr	<10	<10	15	<10	10
Th	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10
V	<10	<10	21	35	46
W	<10	<10	<10	<10	<10
Zn	18	55	32	68	91

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.

ANALYSIS & REPRESENTATION



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LIMITED

33 CHANCELLERY AVENUE, SUITE 100, MISSISSAUGA, ONTARIO L4V 1P2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Qualitative Analysis

Certificate No. QR-10/07/8078

Date: September 8, 1988

Samples Of: Rock 73

Submitted by: Quill Resources Ltd.

By: Mr. Gordon Lewis

c.c.: Mr. T. J. Beesley

	29714	29715	29716	29717	29718	29719	29720
Ag	.1	<.1	3.4	1.5	.7	.3	<.1
Al %	1.0	.06	.8	3.0	.5	1.1	.5
As	23	<10	<10	123	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.5	.09	.3	.3	.1	.5	.2
Cd	10	<10	17	31	20	<10	<10
Co	26	11	35	44	19	23	12
Cr	54	20	23	34	21	53	26
Cu	34	20	102	101	40	32	22
Fe %	4.3	2.1	19.6	20.7	24.6	5.8	4.8
Mg %	.5	.05	.3	1.3	.3	.7	.2
Mn	850	221	3553	6589	1693	1260	553
Mo	<10	<10	<10	43	<10	<10	<10
Ni	43	11	51	50	49	58	29
P %	.1	.03	.06	.1	.04	.1	.07
Pb	25	<10	73	134	75	31	<10
S %	.4	.1	3.9	1.6	.3	.6	1.2
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	10	<10	36	36	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	25	<10	19	50	20	28	14
W	<10	<10	<10	81	<10	<10	<10
Zn	48	20	51	165	72	68	29

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYS RESEARCH INTERNATIONAL LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M5V 1Z7 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. **QR-10/08/8078**

Date: **September 8, 1988**

Samples Of: **Rock 73**

Submitted by: **Quill Resources Ltd.**

Anal. by: **Mr. Gordon Lewis**

C.C.: **Mr. T.J. Beesley**

ANALYTICAL RESULTS IN PPM

	29721	29722	29723	29724	29725	29726	29727
Ag	.1	.1	.2	1.3	.8	1.1	.1
Al %	.8	.7	1.6	.6	.6	.5	2.1
As	19	<10	<10	10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.4	.6	.4	.5	.4	.2	1.6
Cd	<10	<10	<10	22	13	22	<10
Co	17	22	18	15	53	88	17
Cr	41	64	32	32	26	28	19
Cu	23	68	43	201	118	172	24
Fe %	5.0	5.5	8.6	24.3	14.9	24.5	2.7
Mg %	.4	.4	.8	.3	.4	.2	.8
Mn	773	642	1738	610	468	500	523
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	28	72	36	139	89	142	19
P %	.1	.1	.1	.07	.06	.07	.08
Pb	18	10	41	96	52	78	28
S %	.4	1.3	1.9	10.5	7.5	9.8	.2
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	12	22	10	16	12	11	73
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	24	25	27	24	27	23	59
W	<10	<10	<10	<10	<10	<10	<10
Zn	40	43	49	110	86	69	55

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



ASSAYERS ONTARIO LABORATORIES

A DIVISION OF

INTEGRATED

MINES

PHONE (416) 239-3527 FAX (416) 239-4012

DATE

September 8, 1988

Certificate No. QR-10/09/8078

Samples Of: Rock 73

Submitted by: Quill Resources Ltd.

ATTN: Mr. Gordon Lewis

c.c.: Mr. T. J. Beesley

ALLO-SCAN - RESULTS IN PPM

	29728	29729	29730	29731	29732	29733	29734
Ag	<.1	<.1	1.6	1.2	1.0	1.0	.9
Al %	.2	.8	.7	.7	.7	.8	1.3
As	<10	<10	161	<10	183	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.9	.3	.2	.1	.1	.1	.1
Cd	<10	<10	39	24	44	31	14
Co	<10	<10	112	81	78	54	35
Cr	22	76	86	85	116	119	177
Cu	25	81	1018	885	255	303	183
Fe %	1.1	3.5	31.1	24.5	36.0	34.1	15.2
Mg %	.06	.7	.7	.6	.8	.8	1.3
Mn	174	468	817	731	945	974	1066
Mo	<10	<10	37	<10	41	<10	<10
Ni	11	38	521	368	354	342	93
P %	.01	.01	.1	.05	.1	.06	.05
Pb	<10	<10	139	95	156	124	77
S %	.1	.2	12.9	12.2	6.9	6.9	8.1
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	11	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	<10	24	29	29	39	40	94
W	<10	<10	79	<10	22	<10	<10
Zn	18	34	95	65	77	76	79

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHARLES STREET, TORONTO, ONT. M5E 1B5

TELEPHONE (416) 239-3527 FAX (416) 239-4012

## ANALYSIS

Certificate No. **QR-10/10/8078**  
 Samples Of **Rock 73**  
 Submitted by **Quill Resources Ltd.**

September 8, 1988

Mr. Gordon Lewis  
 c.c.: Mr. T.J. Beesley

	29735	29736	29737	29738	29739	29740	29741	29742
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Al %	.3	.7	.7	.8	.6	.8	.1	.06
As	<10	145	<10	131	<10	135	<10	<10
Bi	<10	110	<10	93	<10	105	<10	<10
Ca %	.1	.1	.2	1.0	.3	.2	.06	.05
Cd	<10	20	<10	15	<10	14	<10	<10
Co	13	42	21	37	<10	33	<10	<10
Cr	26	37	28	33	28	43	28	48
Cu	56	74	65	98	53	46	370	80
Fe %	2.4	3.5	2.3	2.8	2.6	2.4	1.6	3.1
Mg %	.2	.6	.8	.8	.6	.6	.1	.06
Mn	276	431	315	448	309	271	145	193
Mo	<10	28	<10	37	<10	40	<10	<10
Ni	34	44	35	44	21	27	15	25
P %	.04	.09	.05	.1	.03	.08	.01	.01
Pb	<10	28	<10	30	<10	26	55	109
S %	1.0	1.2	.3	.3	.2	.09	.2	.4
Sb	<10	27	<10	29	<10	35	<10	<10
Sr	<10	<10	<10	<10	<10	14	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	10	27	46	24	19	27	<10	<10
W	<10	12	<10	42	<10	24	<10	<10
Zn	41	332	115	139	50	61	15	31

ONTARIO LABORATORIES

J. van Engelen Mgr.





# ASSAYERS

A DIVISION OF ASSAYERS  
33 CHALMERS AVENUE

# LABORATORIES

TELEPHONE (416) 239-3527 FAX (416) 239-4012

Certificate No. **QR-10/11/8078**  
Samples Of: **Rock** 73  
Submitted by: **Quill Resources Ltd.**

Date: **September 8, 1988**

By: **Mr. Gordon Lewis**  
c.c.: **Mr. T. J. Beesley**

	29743	29744	29745	29746
Ag	<.1	.5	.4	<.1
Al %	.3	1.0	1.1	1.1
As	<10	<10	<10	<10
Bi	<10	<10	<10	<10
Ca %	.07	.1	.1	.1
Cd	<10	25	23	11
Co	16	80	78	55
Cr	36	66	59	50
Cu	116	289	233	217
Fe %	4.7	12.9	12.9	11.5
Mg %	.3	1.0	1.2	1.2
Mn	336	850	836	811
Mo	<10	<10	<10	<10
Ni	44	180	126	119
P %	.01	.1	.1	.04
Pb	84	108	79	58
S %	1.6	9.5	7.4	7.1
Sb	<10	<10	<10	<10
Sr	<10	<10	<10	<10
Th	<10	<10	<10	<10
U	<10	<10	<10	<10
V	11	28	26	23
W	<10	<10	<10	<10
Zn	30	64	60	52

ASSAYERS ONTARIO LABORATORIES

*J. van Engelen*  
J. van Engelen Mgr.

LABORATORY REPRESENTATION



# ASSAYERS' LABORATORY OF ONTARIO

A DIVISION OF THE MINISTRY OF ENERGY AND ENVIRONMENT  
 33 CHALMERS AVENUE, SUITE 200, MISSISSAUGA, ONTARIO L4R 9V7  
 TELEPHONE (416) 239-3527 FAX (416) 239-4012

7

## CERTIFICATE

Certificate No. QR-11/ 8155

Date: September 26, 1988

Received 49 samples of Rock

Submitted by Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb	Sample No.	Au ppb
29747 <i>9V, V<sub>3</sub></i>	<b>621</b>	29767 <i>GZ</i>	13	29787 <i>9V, 14, GR27</i>	
29748 <i>MS</i>	<b>178</b>	29768 <i>MS</i>	35	29788 <i>GZ</i>	21
29749 <i>V<sub>4</sub></i>	11	29769 <i>9V</i>	18	29789 <i>14</i>	20
29750 <i>V<sub>3</sub>, GR</i>	9	29770 <i>GZ, SS, V<sub>3</sub></i>	32	29790 <i>14</i>	18
29751 <i>MS</i>	22	29771 <i>9V, SS, V<sub>3</sub></i>	30	29791 <i>14, CHLOR, 25GZ</i>	
29752 <i>MS</i>	26	29772 <i>V<sub>3</sub>, 20S</i>	40	29792 <i>14, CHLOR 27GZ</i>	
29753 <i>V<sub>1</sub>, SS</i>	24	29773 <i>V<sub>3</sub>, 30S</i>	20	29793 <i>14, CHLOR <b>300</b> GZ</i>	
29754 <i>GZ, V<sub>3</sub>, 10S</i>	42	29774 <i>V<sub>3</sub>, 20S</i>	11	29794 <i>14, CHLOR 14 GZ</i>	
29755 <i>GZ, V<sub>3</sub>, 10S</i>	28	29775 <i>V<sub>3</sub>, 25S, 9V</i>	14	29795 <i>14, CHLOR 43 GZ</i>	
29756 <i>9V, 1S</i>	24	29776 <i>V<sub>3</sub></i>	10		
29757 <i>V<sub>3</sub>, SS</i>	27	29777 <i>V<sub>3</sub></i>	13		
29758 <i>9V, GZ</i>	31	29778 <i>GZ, 14</i>	27		
29759 <i>V<sub>3</sub>, GZ, GR, SS</i>	40	29779 <i>GZ, 14</i>	21		
29760 <i>GZ, 9V, 2S</i>	34	29780 <i>GZ, 14</i>	29		
29761 <i>V<sub>3</sub>, SS</i>	20	29781 <i>MS</i>	12		
29762 <i>GZ, 15S</i>	25	29782 <i>GZ</i>	60		
29763 <i>V<sub>3</sub>, SS, GR</i>	10	29783 <i>V<sub>1</sub>, SS</i>	50		
29764 <i>V<sub>3</sub>, 9V, GR, SS</i>	29	29784 <i>V<sub>1</sub>, 10S</i>	19		
29765 <i>GZ, 9V, SS</i>	31	29785 <i>14, GZ, 9V, SS</i>	12		
29766 <i>9V, SS</i>	27	29786 <i>14, GR, SS</i>	36		

ANALYSED AT ONTARIO LABORATORIES

J. van Engelen Mgr.



ASSAM VALLEY LABORATORIES

A DIVISION OF

BRONX

ANALYTICAL SERVICES

TEL (416) 239-3527

FAX (416) 239-4012

ANALYSIS OF SAMPLES

Certificate No. QR-12/01/8155

Date: September 26, 1988

Received 121

Rocks

Submitted by Quill Resources Ltd.

Att'n: Mr. Gordon Lewis

c.c.: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29946 14, GR	12	29966 qv	31
29947 qv, V1	9	29967 GZ	17
29948 14, 2SS	14	29968 14, 3S	27
29949 14, 3S	603 (576)	29969 14	30
29950 13, GR	61	29970 MS	33
29951 qv, V3, GR 47		29971 14, 8S	32
29952 14, GR, 4S	11	29972 14, GR	10
29953 14, GR, 4S	20	29973 14	17
29954 14, GR, 4S	34	29974 14, GR, MS, GZ	12
29955 GZ, 14	19	29975 14, GR, 3S	13
29956 qv, 13	18	29976 qv	11
29957 14, 15S	32	29977 qv	8
29958 14, 7S	29	29978 qv	20
29959 GZ	23	29979 qv	13
29960 GZ	60	29980 qv	22
29961 14, 10S	28	29981 qv	25
29962 14	17	29982 V3, 3S	35
29963 14, BIT, GZ	19	29983 qv, GZ	27
29964 14, GR, 3S	350	29984	170
29965 qv, 14	20	29985	20

RECCE  
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ONTARIO LABORATORIES

J. van Engelen Mgr.



**ASSAYERS & REFINERS**

A DIVISION OF

33 CHALMERS AVENUE

**LABORATORIES**

TELEPHONE (416) 239-3527

FAX (416) 239-4012

### Report of Analysis

Certificate No. QR-12/02/8155

Date: September 26, 1988

Received 121

Rocks \_\_\_\_\_

Submitted by Quill Resources Ltd.

Att'n: Mr. Gordon Lewis

c.c.: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
29986	14	30006	8
29987	10	30007	20
29988	11	30008	10
29989	4	30009	17
29990	8	30010	11
29991	11	30011	18
29992	23	30012	14
29993	13	30013	30
29994	40	30014	32
29995	14	30015	35
29996	50	30016	28
29997	25	30017	19
<del>29998</del>	10	30018	12
29999	12	30019	11
↓ piece 30000	7	30020	13
30001	8	30021	10
30002	13	30022	21
30003	20	30023	20
30004	22	30024	18
30005	17	30025	16

QUILL RESOURCES LTD. LABORATORIES

J. van Engelen Mgr.



**ASSA**  
A DIVISION OF  
33 CHALMERS AVENUE

**ANALYTICAL LABORATORIES**

TEL. (416) 239-3527  
FAX (416) 239-4012

**Certificate of Analysis**

Certificate No. QR-12/03/8155

Date September 26, 1988

Received 121

Rocks

Submitted by Quill Resources Ltd.

Att'n: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beesley

Sample No.	Au ppb	Sample No.	Au ppb
30026	25	30046	11
30027	12	30047	49
30028	11	30048	21
30029	26	30049	22
30030	8	30050	52
30031	10	30051	38
30032	149	30052	15
30033	21	30053	11
30034	23	30054	21
30035	29	30055	12
30036	40	30056	20
30037	10	30057	18
30038	15	30058	32
30039	24	30059	14
30040	27	30060	NS
30041	50	30061	28
30042	40	30062	10
30043	38	30063	13
30044	29	30064	11
30045	58	30065	15
		30066	9
		30067	16

ANALYTICAL LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ASSOCIATION OF ONTARIO

33 CHANCE STREET, SUITE 100, MISSISSAUGA, ONTARIO L4V 1R1 TELEPHONE (416) 239-3527 FAX (416) 239-4012

ANALYTICAL CERTIFICATE

Certificate No. QR-11/01/8150

September 23, 1988

Samples Of: Rock 40

Submitted by: Quill Resources Ltd.

Mr. Gordon Lewis

c.c.: Mr. T.J. Beesley

QUANTITIES IN PERCENT

	29747	29748	29749	29750	29751	29752	29753	29754
Pb	621	118						
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Al %	.07	1.3	.2	.3	.3	.3	.8	1.0
As	24	22	<10	<10	21	20	21	<10
Bi	<10	28	33	<10	<10	<10	10	<10
Ca %	.2	1.0	.1	.4	.5	.6	.8	.4
Cd	<10	41	41	<10	37	37	36	<10
Co	<10	79	140	<10	79	77	87	<10
Cr	16	61	734	56	39	37	68	65
Cu	20	215	20	78	67	72	72	119
Fe %	.5	2.3	5.8	2.6	4.3	4.4	3.6	5.3
Mg %	.1	.7	15.5	1.1	.1	.1	.5	.5
Mn	61	231	479	677	996	844	510	684
Mo	<10	<10	10	<10	<10	<10	<10	<10
Ni	<10	46	1641	120	47	45	77	39
P %	<.01	.2	.2	<.01	.2	.2	.2	<.01
Pb	37	111	77	<10	51	53	56	36
S %	<.01	.3	.2	.2	1.4	1.3	.5	.9
Sb	<10	<10	11	13	<10	<10	<10	<10
Sr	<10	35	<10	<10	<10	<10	18	<10
Th	<10	<10	33	<10	<10	<10	<10	<10
U	<10	23	32	<10	<10	<10	<10	<10
V	<10	32	26	<10	14	14	27	50
W	<10	11	<10	<10	<10	<10	<10	<10
Zn	<10	96	47	<10	31	31	49	113

ASSAYERS ONTARIO LABORATORIES

For

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF

33 CHAMBERLAIN ST. TORONTO, ONT. M5V 1S4

TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Analysis

Certificate No. **QR-11/02/8150**

**September 23, 1988**

Samples Of: **Rock 40**

Submitted by: **Quill Resources Ltd.**

ANALYST: **Mr. Gordon Lewis**  
c.c.: **Mr. T. J. Beestley**

### RESULTS IN PPM

	29755	29756	29757	29758	29759	29760	29761	29762
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Al %	.5	.5	5.5	.2	.6	6.5	1.1	.6
As	19	15	26	22	23	<10	<10	<10
Bi	11	<10	16	11	10	<10	<10	<10
Ca %	.2	.5	.3	.08	.5	.3	.3	.5
Cd	35	20	44	37	37	<10	<10	<10
Co	67	102	142	71	80	<10	<10	<10
Cr	59	52	243	47	58	39	72	41
Cu	67	705	84	40	159	103	62	119
Fe %	4.1	2.6	12.4	2.2	3.7	3.9	4.2	4.6
Mg %	.3	.2	3.8	.2	.3	.3	.8	.3
Mn	477	430	1664	164	1055	352	655	961
Mo	<10	<10	12	<10	<10	<10	<10	<10
Ni	33	79	144	28	50	13	43	31
P %	.2	.1	.2	.2	.2	<.01	.02	<.01
Pb	43	47	44	43	59	17	53	25
S %	.4	.6	.4	.1	.6	.1	.4	1.0
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	38	35	186	19	34	35	47	30
W	<10	<10	18	<10	<10	<10	<10	<10
Zn	54	33	157	28	43	21	48	20

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHALMERS AVENUE, SUITE 100, MISSISSAUGA, ONTARIO L4W 3Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Chemical Analysis

Certificate No. QR-11/03/8150 Date September 23, 1988  
 Samples Of: Rock 40  
 Submitted by: Quill Resources Ltd. Attn: Mr. Gordon Lewis  
 c.c.: Mr. T.J. Beesley

ANALYSIS REPORT TO BE FURNISHED TO THE CLIENT

	29763	29764	29765	29766	29767	29768	29769	29770
Ag	<.1	<.1	<.1	<.1	<.1	.4	<.1	<.1
Al %	.4	2.9	.4	.1	.2	.1	.5	1.1
As	<10	<10	<10	12	<10	<10	<10	<10
Bi	<10	<10	<10	21	<10	12	<10	<10
Ca %	.4	.8	.1	.2	.2	.09	.4	.2
Cd	<10	<10	<10	38	12	31	<10	<10
Co	<10	16	47	79	<10	100	34	<10
Cr	24	112	32	46	15	28	91	53
Cu	103	188	171	146	172	458	73	72
Fe %	2.6	11.4	8.5	5.8	5.8	28.7	2.3	3.5
Mg %	.2	2.3	.3	.1	.1	.1	.4	1.1
Mn	468	1804	478	293	377	462	227	282
Mo	<10	<10	<10	<10	<10	<10	<10	<10
Ni	38	56	53	48	34	173	36	40
P %	<.01	<.01	.02	.2	<.01	.02	.09	<.01
Pb	14	87	73	55	26	111	40	23
S %	.5	1.1	4.6	2.4	2.2	6.0	.3	.7
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	23	214	17	15	<10	<10	26	100
W	<10	<10	<10	<10	18	<10	<10	<10
Zn	14	785	944	245	6535	2420	103	295

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.

ANALYTICAL CHEMISTS • ASSAYERS • ICP-METALS ELEMENT ANALYSIS • REPRESENTATION





# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHAMPLAIN AVENUE

TELEPHONE (416) 239-3527 FAX (416) 239-4012

Certificate No. QR-11/04/8150

September 23, 1988

Samples Of: Rock 40

Submitted by: Quill Resources Inc.

ATTN: Mr. Gordon Lewis

C.C.: Mr. T.J. Beesley

## GEO-SCAN - RESULTS IN PPM

	29771	29772	29773	29774	29775	29776	29777	29778
Ag	<.1	<.1	.2	<.1	<.1	<.1	<.1	<.1
Al %	.4	.7	.7	.6	.8	1.3	1.7	.4
As	<10	<10	13	11	10	<10	24	<10
Bi	<10	10	<10	<10	<10	<10	13	<10
Ca %	1.6	.4	.5	.4	.3	.4	.2	.3
Cd	<10	18	43	37	39	35	38	<10
Co	<10	16	115	86	124	76	88	<10
Cr	32	70	75	71	82	64	62	327
Cu	67	60	264	210	284	146	86	98
Fe %	2.0	4.5	11.8	5.7	8.1	7.2	5.4	6.7
Mg %	.2	.4	.5	.4	.5	1.0	1.4	.2
Mn	323	814	732	608	1088	714	666	813
Mo	<10	<10	16	<10	11	<10	29	<10
Ni	27	26	85	47	78	66	58	56
P %	<.01	.02	.2	.2	.2	.1	.2	.02
Pb	<10	28	87	63	82	58	87	28
S %	.3	.3	3.9	1.4	3.0	2.0	.7	.07
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	10	<10	<10	<10	<10	<10	<10
V	22	51	43	42	44	57	66	28
W	<10	<10	<10	<10	<10	<10	10	<10
Zn	191	70	78	78	99	85	104	15

ASSAYERS ONTARIO LABORATORIES

Per

J. van Engelen Mgr.



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF  
33 CHATELAIN AVENUE

SCARBOROUGH, ONTARIO M1V 4S7 TEL: (416) 239-3527 FAX: (416) 239-4012

Certificate No. QR-11/05/8150

September 23, 1988

Samples Of: Rock 40

Submitted by: Quill Resources Inc.

Attn: Mr. Gordon Lewis

c.c.: Mr. T. J. Beesley

## GEO-SCAN -- RESULTS IN PPM

	29779	29780	29781	29782	29783	29784	29785	29786
Ag	1.0	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Al %	.8	.8	1.0	.3	1.2	1.1	.6	.8
As	<10	<10	<10	<10	<10	10	<10	10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.7	.9	1.0	.4	.9	.7	.7	1.0
Cd	<10	<10	<10	<10	<10	38	38	35
Co	<10	42	31	<10	<10	81	76	59
Cr	60	48	50	19	48	76	49	65
Cu	93	159	250	286	68	67	228	67
Fe %	6.2	9.0	11.1	5.9	3.6	4.7	3.5	5.0
Mg %	.3	.2	.4	.1	.5	.6	.1	.1
Mn	1036	1303	1561	325	410	503	355	1258
Mo	<10	<10	<10	<10	<10	11	<10	<10
Ni	62	184	181	39	59	53	34	61
P %	.01	.04	<.01	<.01	<.01	.3	.2	.1
Pb	30	47	56	23	25	75	52	34
S %	.9	3.1	4.8	.4	.6	.8	.4	.4
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	13	13	20	<10	41	29	16	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	28	26	29	15	26	42	23	31
W	<10	<10	<10	<10	<10	13	<10	<10
Zn	19	25	29	71	39	71	43	31

ASSAYERS ONTARIO LABORATORIES

Per

J. van Engelen Mgr.

ANALYTICAL CHEMISTS • ASSAYING • ICP MULTI-ELEMENT ANALYSIS • REPRESENTATION



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES

33 CHALMERS AVENUE, SUITE 100, MISSISSAUGA, ONTARIO L4V 1A5 - TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Geochemical Analysis

Certificate No. QR-11/06/8155

Date. September 26, 1988

Samples Of: Rock 49

Submitted by: Quill Resources Ltd.

Attn: Mr. Gordon Lewis  
c.c.: Mr. T. J. Beesley

### GEO-SCAN - RESULTS IN PPM

	29787	29788	29789	29790	29791	29792	29793
Ag	<.1	.7	.2	.4	.8	1.0	.6
Al %	.2	.7	.8	1.1	1.3	1.8	1.1
As	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10
Ca %	.5	.8	1.0	1.0	1.0	.9	1.0
Cd	20	<10	<10	<10	<10	<10	<10
Co	41	66	25	<10	<10	<10	<10
Cr	46	47	41	51	44	76	36
Cu	48	137	26	71	19	24	32
Fe %	2.0	8.3	3.6	4.3	5.5	7.3	5.9
Mg %	.1	.3	.3	.4	.5	.9	.4
Mn	756	971	847	1511	1666	2008	1362
Mo	<10	<10	<10	<10	<10	<10	<10
Ni	34	135	35	49	77	68	36
P %	.1	.1	.1	.04	.01	<.01	<.01
Pb	36	73	50	33	40	60	41
S %	.1	3.3	.2	.6	.4	1.5	.7
Sb	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	21	10	<10	<10	10
Th	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10
V	15	23	30	33	30	46	29
W	<10	<10	<10	<10	<10	<10	<10
Zn	13	25	18	11	55	76	28

300 Au

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J. van Engelen Mgr.

ANALYTICAL CHEMISTRY

QUALITY CONTROL ANALYSIS • REPRESENTATION



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CONSULTATION LTD.

33 CHALMERS AVENUE, TORONTO, ONTARIO M4Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-11/07/8155 Date: September 26, 1988  
Samples Of: Rock 49  
Submitted by: Quill Resources Ltd. Attn: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beesley

RESULTS IN PPM

	29794	29795
Ag	.1	<.1
Al %	1.1	.9
As	<10	<10
Bi	<10	<10
Ca %	1.0	.9
Cd	<10	<10
Co	<10	<10
Cr	43	45
Cu	37	58
Fe %	6.0	6.8
Mg %	.3	.3
Mn	1316	1835
Mo	<10	<10
Ni	37	101
P %	.06	<.01
Pb	70	40
S %	.7	1.7
Sb	<10	<10
Sr	10	<10
Th	<10	<10
U	<10	<10
V	31	35
W	<10	<10
Zn	34	10

ASSAYERS ONTARIO LABORATORIES

J. van Engelen Mgr.

ANALYTICAL CHEMISTRY • METALLURGY • INSTRUMENT ANALYSIS • REPRESENTATION



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LABORATORIES  
33 CHALINCEY AVENUE, TORONTO, ONTARIO, CANADA M5S 1K7 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-12/01/8155

Date: September 26, 1988

Samples Of: Rocks 121

Submitted by: Quill Resources Ltd.

Analyst: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beestley

RESULTS IN PPM

	29946	29947	29948	29949	29950	29951	29952	29953
				603				
Ag	.1	.1	.5	.4	.3	<.1	1.2	2.0
Al %	.6	.6	.8	1.4	.9	.1	1.6	1.1
As	<10	<10	12	<10	<10	219	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	1.8	.3	.8	.9	.1	.2	.9	.6
Cd	<10	<10	<10	<10	<10	16	<10	<10
Co	<10	<10	44	17	<10	47	30	70
Cr	35	20	45	70	<10	44	78	61
Cu	62	17	86	50	<10	36	150	420
Fe %	2.8	2.8	14.2	7.2	2.7	3.2	13.9	30.7
Mg %	.3	.3	.3	.6	.5	.1	1.1	.7
Mn	801	285	896	1248	369	233	1139	1037
Mo	<10	<10	<10	<10	<10	15	<10	<10
Ni	55	18	157	116	18	43	78	209
P %	.07	.03	.06	.06	.01	.1	.03	.04
Pb	19	27	56	43	<10	47	91	115
S %	.2	.2	4.3	1.0	.1	.7	3.3	8.8
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	19	12	23	35	<10	11	54	40
W	<10	<10	<10	<10	<10	<10	<10	<10
Zn	398	56	31	39	40	14	145	87

ASSAYERS ONTARIO LABORATORIES



# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORP. LIMITED

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-12/02/8155

Date: September 26, 1988

Samples Of: Rocks 121

Submitted by: Quill Resources Ltd.

By: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beesley

	29954	29955	29956	29957	29958	29959	29960	29961
Ag	2.0	.8	.2	.9	.5	.8	1.0	.6
Al %	1.6	1.0	.5	.6	.8	.2	.5	.6
As	<10	<10	<10	<10	<10	<10	21	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.6	.8	.4	.5	.6	.3	.5	.7
Cd	29	27	14	<10	<10	<10	24	<10
Co	136	77	65	79	37	11	117	62
Cr	126	76	70	49	52	29	47	37
Cu	325	252	105	77	323	124	526	496
Fe %	25.9	8.4	7.2	23.5	11.2	19.9	24.7	13.5
Mg %	1.2	.6	.3	.3	.5	.07	.1	.2
Mn	1319	746	580	1193	1147	1089	971	1056
Mo	10	<10	<10	<10	<10	<10	<10	<10
Ni	171	75	59	165	90	42	160	108
P %	.1	.1	.1	.03	.02	.03	.1	.03
Pb	144	87	69	95	49	65	122	60
S %	7.0	1.7	2.1	6.9	5.1	.4	6.9	7.3
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	73	44	27	28	33	49	27	29
W	12	10	<10	<10	<10	<10	<10	<10
Zn	173	73	54	55	83	22	54	41

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# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 0Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-12/03/8155 Date September 26, 1988

Samples Of: Rocks 121

Submitted by: Quill Resources Ltd. Analyst: Mr. Gordon Lewis  
c.c.: Mr. T.J. Beesley

CONCENTRATIONS LISTED ARE IN PPM

	29962	29963	29964	29965	29966	29967	29968	29969
<i>Am</i>			350					
Ag	.1	.3	.2	<.1	<.1	.6	.4	.1
Al %	.5	1.0	.6	.1	.1	.6	1.5	.1
As	22	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.6	.5	.5	.1	.1	.5	.8	.2
Cd	20	<10	<10	<10	21	<10	<10	<10
Co	56	13	<10	<10	55	<10	<10	<10
Cr	53	85	25	25	40	14	33	12
Cu	94	167	56	42	46	22	26	20
Fe %	4.5	7.2	3.9	1.8	5.4	8.0	11.5	2.6
Mg %	.3	.7	.2	.1	.06	.1	.6	.1
Mn	837	1191	886	315	280	3291	1733	339
Mo	15	<10	<10	<10	17	<10	<10	<10
Ni	30	39	61	15	48	20	49	13
P %	.1	.02	.03	<.01	.1	.01	.05	<.01
Pb	63	41	31	20	55	41	57	14
S %	.8	2.1	.7	.3	2.2	.2	2.9	1.8
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	<10	13	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	<10
V	37	59	16	11	10	16	24	<10
W	<10	<10	<10	<10	<10	<10	<10	<10
Zn	42	43	11	<10	19	<10	33	<10

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# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS ONTARIO LIMITED

33 CHAUNCEY AVENUE, WYOMING, ONTARIO, CANADA M2L 1J2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-12/04/8155

Date: September 26, 1988

Samples Of: Rocks 121

Submitted by: Quill Resources Ltd.

Attn: Mr. Gordon Lewis

c.c.: Mr. T.J. Beesley

	29970	29971	29972	29973	29974	29975	29976	29977
Ag	1.0	.4	.3	.9	.1	.2	<.1	.2
Al %	.5	.4	.6	.4	.3	.5	.2	.05
As	<10	<10	<10	<10	<10	13	<10	<10
Bi	<10	<10	<10	<10	<10	14	<10	16
Ca %	.3	.2	.5	.4	.4	.6	.3	.1
Cd	12	22	12	<10	<10	46	<10	11
Co	16	56	27	40	<10	86	<10	47
Cr	25	119	37	31	30	57	12	26
Cu	31	43	190	367	63	75	27	26
Fe %	34.9	19.2	3.9	11.6	2.3	4.2	.7	1.1
Mg %	.3	.2	.5	.1	.3	.3	.05	.04
Mn	1050	1236	384	937	259	584	77	88
Mo	<10	<10	<10	<10	<10	10	<10	<10
Ni	66	48	31	134	21	69	14	18
P %	.05	.1	.05	.06	.01	.2	<.01	.1
Pb	118	105	35	54	32	61	<10	38
S %	1.7	.5	.3	3.7	.2	.6	.03	.1
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	<10	14	<10	<10	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	<10	<10	<10	13
V	19	50	28	19	21	27	<10	<10
W	<10	<10	<10	<10	10	11	<10	<10
Zn	47	35	77	25	149	59	60	17

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# ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE TORONTO, ONTARIO M5R 1Z7 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

## Certificate of Analysis

Certificate No. QR-12/05/8155

Date: September 26, 1988

Samples Of: Rocks 121

Submitted by: Quill Resources Ltd.

Analyst: Mr. Gordon Lewis

c.c.: Mr. T.J. Beesley

	29978	29979	29980	29981	29982	29983	29984	29985
Ag	.5	.6	.2	.4	.3	.2	6.1	.1
Al %	.06	.5	.5	.8	.06	.08	.2	.02
As	<10	<10	<10	15	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.1	.6	.6	.7	.1	.1	.09	.07
Cd	<10	<10	<10	46	<10	<10	<10	<10
Co	<10	23	<10	83	34	<10	<10	<10
Cr	14	42	39	74	22	14	10	13
Cu	24	21	19	115	26	26	50	15
Fe %	.7	1.8	1.7	3.9	.9	.9	2.0	.6
Mg %	.02	.5	.5	.7	.05	.07	.2	.02
Mn	130	277	274	426	73	74	97	66
Mo	<10	<10	<10	10	<10	<10	<10	<10
Ni	11	38	39	66	15	11	15	<10
P %	<.01	.2	.1	.3	.1	<.01	<.01	<.01
Pb	<10	38	24	72	26	62	318	19
S %	.01	.04	.01	1.1	.06	.1	.6	.03
Sb	<10	<10	<10	10	<10	<10	<10	<10
Sr	<10	14	13	15	<10	<10	<10	<10
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	10	<10	31	<10	<10	<10	<10
V	<10	20	20	30	<10	<10	<10	<10
W	<10	<10	<10	18	<10	<10	<10	<10
Zn	<10	34	29	52	27	24	67	<10

*Rec'd →*

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ANALYTICAL CHEMISTRY

QUALITY CONTROL ANALYSIS • REPRESENTATION