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REPORT ON THE
EXPLORATION PROGRAM
OF
REGAL PETROLEUM LTD.
SWAYZE PROPERTY
PORCUPINE MINING DIVISION
ONTARIO

OM 85-208

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SUMMARY

In 1985, an exploration program was carried on the Shaft Claim Group of Regal Petroleum Ltd.'s Swayze property. The claim group is the site of the old Halcrow Swayze mine where underground and surface work undertaken in the early 1930's, outlined an estimated 130,500 tons of ore grading .11 oz/ton gold.

The program was initiated with linecutting followed by geochemical soil sampling and magnetic, VLF-EM and IP geophysical surveys on parts of the property covered by the cut grid. Twelve trenches were excavated in the summer months to test geophysical anomalies and the mineralized structures.

Encouraging assays of up to .771 oz/ton gold from the trenching led to a drilling program in November. Fourteen drill holes totalling 1,394 metres tested the mineralized zone. The drilling revealed that the gold mineralization is contained within a quartz diorite which is cataclastically deformed along a 50 to 80 metre wide contact zone with a carbonate chlorite schist. The contact was tested over a 1,800 foot strike length and significant, but sub-economic gold mineralization was obtained. An 800 foot section of the contact averages .025 oz/ton Au over a true width ^{of} 50 metres. The section also contains higher grade intersections of up to .146 oz/ton Au over 3 metres and several intersections of .26 oz/ton Au over 1 metre.

Further diamond drilling is recommended to test the vertical and lateral extensions of the zone. Further work to determine if the previously unrecognized cataclastic zone represents a major mineralized fault in the area is also recommended. This work will include detailed geological mapping, sampling and geophysical surveys followed by trenching and finally some limited drilling. The entire Phase III program is estimated to cost \$560,000.

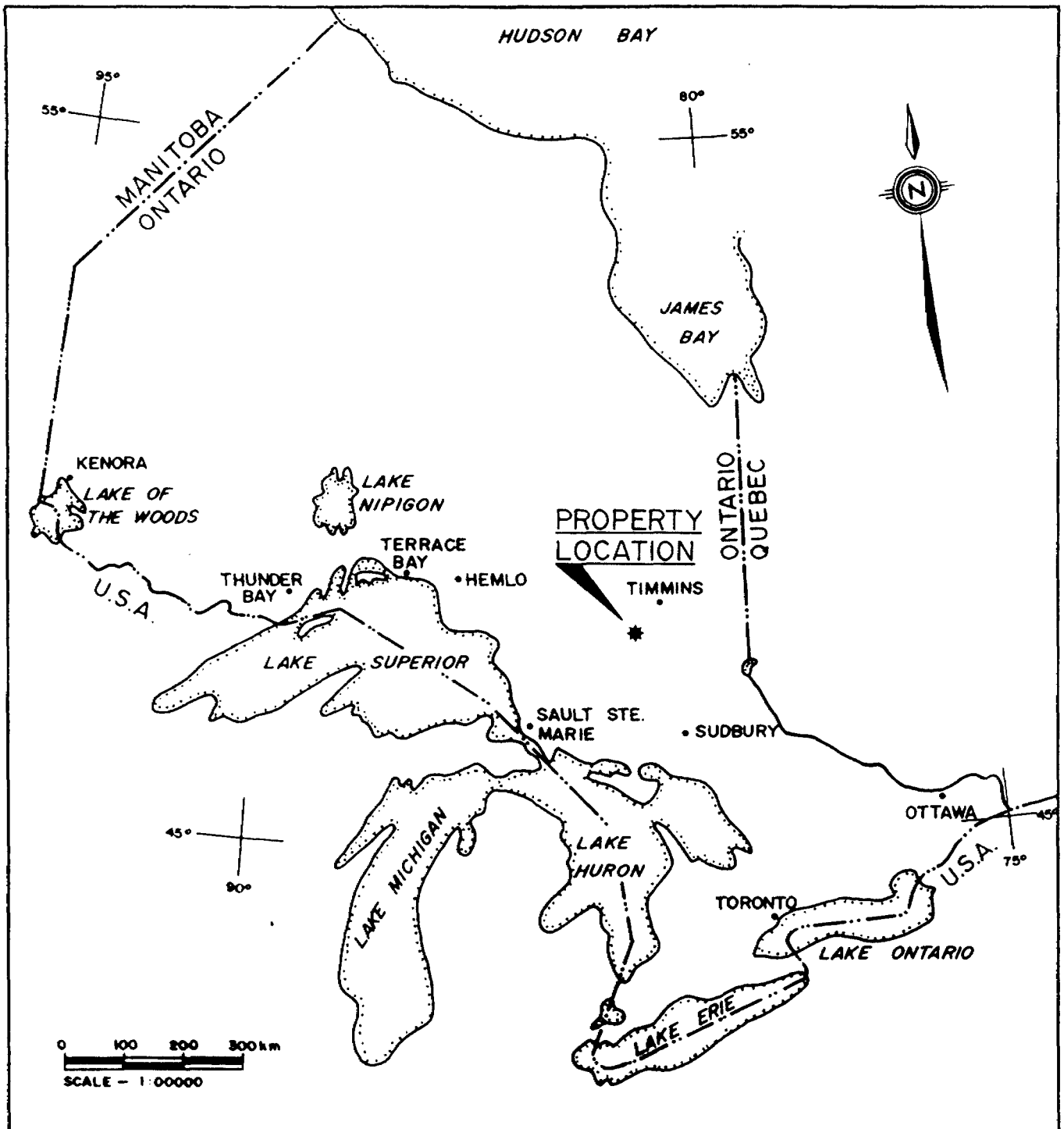


FIGURE 1

PROPERTY LOCATION MAP
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TABLE of CONTENTS

Introduction	1
Location and Access	1
Property and Claim Status	2
Physiography and Vegetation	3
History and Previous Work	4
Exploration Program	5
Regional Geology	6
Property Geology	9
Detailed Geology - Shaft Group	9
Structural Geology	11
Alteration and Ore Genesis	12
Geochemistry	15
Geophysics	15
Trenching Program	18
Diamond Drilling	20
Discussion of Results	29
Regional Overview	30
Conclusions and Recommendations	33
Certificate of Qualifications	
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Jacques Dumouchel, Project Geologist	
Bibliography	

LIST of APPENDICES

- Appendix A - Thin Section Report
- Appendix B - List of Assay Data - Trenching
- Appendix C - Assay Reports - Trenching
- Appendix D - Drill Logs
- Appendix E - Assay Reports - Drilling
- Appendix F - IP Survey Pseudosections

LIST of FIGURES

- | | | |
|-----------|--|-------------------|
| Figure 1 | Location Map | Following Summary |
| Figure 2 | Claim Map | Following Page 2 |
| Figure 3 | Regional Geology | Following Page 6 |
| Figure 4 | Geology and Drill Hole Locations | In Pocket |
| Figure 5 | Soil Geochemistry - A and B Horizon - Gold | In Pocket |
| Figure 6 | Magnetometer Survey | In Pocket |
| Figure 7 | Fraser Filter VLF-EM Survey | In Pocket |
| Figure 8 | Trench 85-01 | Following Page 18 |
| Figure 9 | Trench 85-02 | Following Page 18 |
| Figure 10 | Trench 85-03 | Following Page 18 |
| Figure 11 | Trench 85-04 | Following Page 18 |
| Figure 12 | Trench 85-05 | Following Page 18 |
| Figure 13 | Trench 85-06 and 07 | Following Page 18 |
| Figure 14 | Trench 85-08 and 09 | Following Page 18 |

Figure 15	Trench 85-10	Following Page 19
Figure 16	Trench 85-11	Following Page 19
Figure 17	Trench 10E	Following Page 19
Figure 18	Location Sketch - Southern Trenches	Following Page 19
Figure 19	Trench 85-12	Following Page 19
Figure 20	Trench 85-13	Following Page 19
Figure 21	Trench 85-14	Following Page 19
Figure 22	Trench 85-15	Following Page 19
Figure 23	DDH Section RG-85-01 and 02	In Pocket
Figure 24	DDH Section RG-85-03 and 04	In Pocket
Figure 25	DDH Section RG-85-05	In Pocket
Figure 26	DDH Section RG-85-06 and 07	In Pocket
Figure 27	DDH Section RG-85-08 and 09	In Pocket
Figure 28	DDH Section RG-85-10 and 11	In Pocket
Figure 29	DDH Section RG-85-12	In Pocket
Figure 30	DDH Section RG-85-13	In Pocket
Figure 31	DDH Section RG-85-14	In Pocket
Figure 32	Regional Magnetic Map (Aerodat)	In Pocket

INTRODUCTION

This report presents the results of a 1,394 metre drilling program recently completed on the Swayze Gold Belt property of Regal Petroleum Ltd. at the site of the old Halcrow Swayze gold mine. The work was carried out on three patented claims, known as the Shaft Group. The claims form part of a much larger 182 claim group held by Regal Petroleum Ltd. in the area.

Preceding the drilling program, initial exploration of the property was carried out during the spring and summer of 1985. The work consisted of linecutting, ground VLF-EM, magnetometer and I.P. surveys, soil geochemistry and trenching. Favourable results obtained from the preliminary exploration encouraged Regal Petroleum Ltd. to carry out a drilling program aimed at proving and increasing the 130,500 ton of .11 oz Au/t gold reserve estimated for the old Halcrow Swayze mine.

This report pertains only to the work carried out on the Shaft Group in 1985. Reports on the exploration programs carried out in 1984 on the entire Regal property are listed in the Bibliography.

LOCATION and ACCESS

The Regal Petroleum property is located approximately 40 kilometers east of the town of Chapleau and 40 kilometers southeast of Timmins, Ontario (Figure 1). Highway #101 connecting Chapleau to Timmins lies some 16 kilometers north of the north boundary of the property. A number of logging roads, originating from the small town of Kormak 16 kilometers from Chapleau, provide access to the southern portion of the property. During the summer months easiest access is by float

plane to the Shunsby Lake camp through charter operators located in Chapleau or from Ivanhoe Lake, 56 kilometers north. The work described herein was carried out from a base camp located in a logging area 6 kilometers south of the Shaft claims at Sawbill Lake. Helicopter support was necessary because swamps and the Kinogama River block ground access.

PROPERTY and CLAIM STATUS

The entire property consists of 9 patented claims and 173 unpatented claims in Halcrow, Greenlaw and Tooms townships, Porcupine Mining Division, Ontario (Figure 2). They are listed as follows:

PATENTED

Patent Group - (6 claims)

<u>Township</u>	<u>Claim Number</u>
Halcrow	S-22148 S-22150 S-22152 to 22153 S-22164 S-22177

Shaft Group - (3 claims)

<u>Township</u>	<u>Claim Number</u>
Halcrow	S-22146 S-22151 S-22158

UNPATENTED - (173 claims)

<u>Township</u>	<u>Claim Number</u>
Greenlaw	P-688610 P-708930 to 708946 incl.

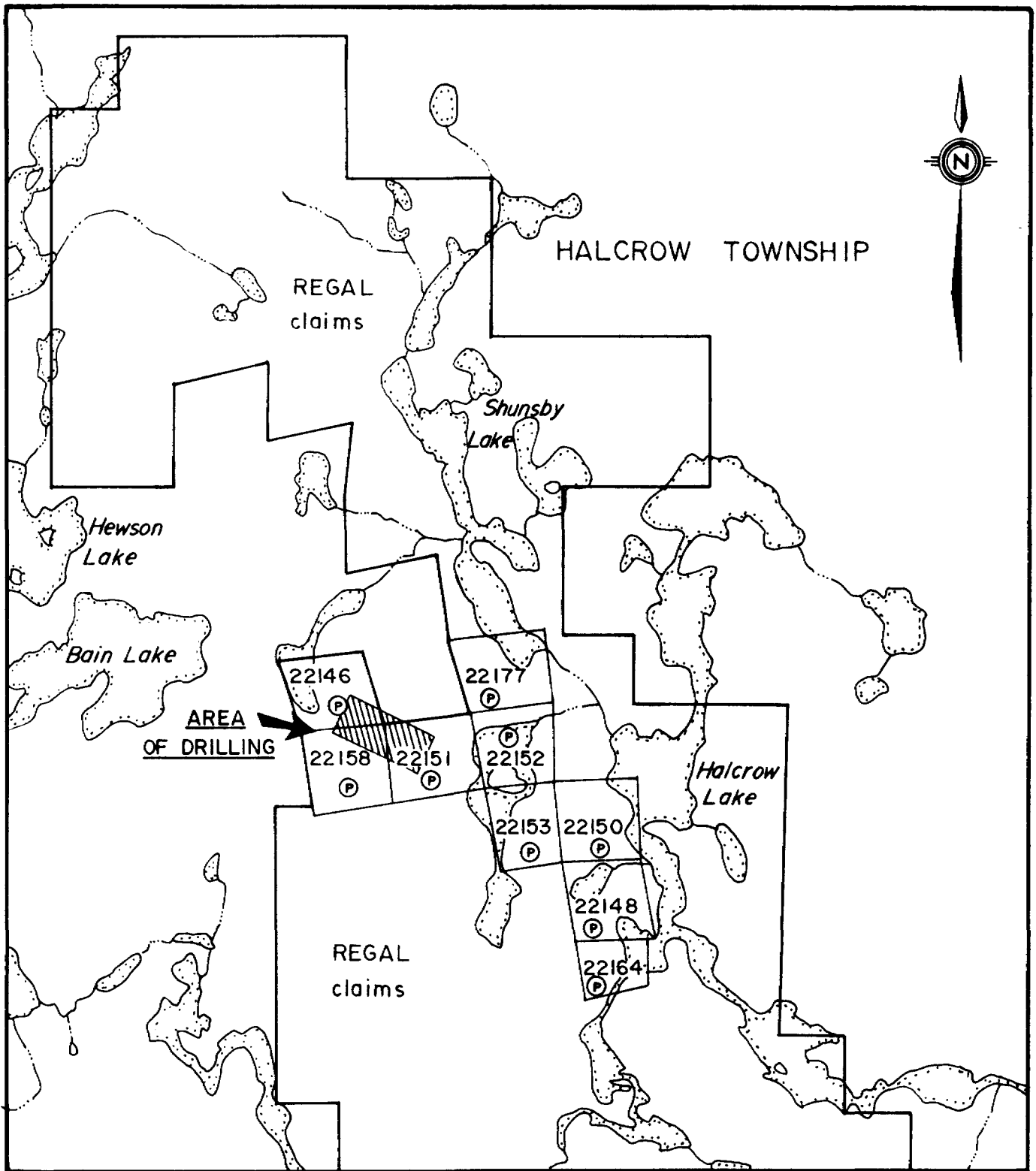


FIGURE 2

CLAIM MAP

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SWAYZE AREA, ONTARIO

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<u>Township</u>	<u>Claim Number</u>
Tooms	P-688585 to 688590 incl. P-688595 to 688609 incl. P-708968 to 708969 P-709068 P-708950 to 708954 incl. P-708958 to 708961 incl.
Halcrow	P-708955 to 708957 incl. P-708970 to 708988 incl. P-709030 to 709043 incl. P-709045 to 709067 incl. P-758310 to 758319 incl. P-757402 to 757404 incl. P-757390 to 757401 incl. P-758284 to 758285 P-708962 to 708967 incl. P-783632 to 783634 incl. P-783637 to 783644 incl. P-779842 to 779847 incl. P-779870 to 779873 incl. P-783631 P-752003 to 752008 incl. P-779840 to 779841

To the best of our knowledge these unpatented claims are in good standing until March 4 and 5, 1987.

PHYSIOGRAPHY and VEGETATION

The property area is relatively flat with a maximum elevation changes in the order of 100 feet. A low gently sloping ridge, site of the old Halcrow Swayze mine, dominates the Shaft Claims. Overburden cover, consisting of sandy and gravel till, mantles over 90% of the claim group, but rarely exceeds 6 metres in thickness.

Vegetation cover, in the Shaft claims, is dominated by mature stands of

poplar, birch and jackpine. Outside of the Shaft area, the low ground and swampy areas are covered by spruce, balsam, cedar and abundant undergrowth of alder. The southeastern portion has been recently logged and the new growth is immature, mainly pine.

HISTORY and PREVIOUS WORK

Although the gold potential of the Swayze greenstone belt has been recognized since the early 1900's the first major thrust in gold exploration occurred in the 1930-1943 period. The discovery of gold to the east of the area in Swayze Township, in 1931, lead to extensive prospecting in the area. A detailed account of other work carried out in the Swayze gold belt can be found in a report by Esson, 1983.

One of the most important gold discovery of that era was that of the Halcrow Swayze mine, presently located on the three claims of the "Shaft Group" held by Regal Petroleum Ltd. According to Laird (1935) "Development of the property... consisted mainly of surface exploration (trenching), underground development, diamond drilling and the operation of a 25-ton test mill". Testing of the three main veins on surface yielded the following results (Laird, 1935):

Vein	Length (Feet)	Width (Inches)	Gold Content (oz/ton)
No. 1	100	16	.235
No. 2	900	84	.120
No. 4	30	12	.857

A shaft was sunk on the No. 2 vein to a depth of 371 feet with levels at 200 and 354 feet. Drifting on the No. 2 vein at the 200 foot level extended for 1,138 feet over width of 4 to 7 feet and the vein was opened for 200 feet at the

354 foot level. Ore reserves were estimated at 85,500 tons of ore grading, .11 oz/ton Au in the No. 2 vein above the 200 foot level and a further 45,000 tons of the same grade between the two levels. Vertical continuity of the ore zone was indicated by diamond drilling to a depth of 500 feet.

EXPLORATION PROGRAM

Initial exploration work on the Regal Petroleum property commenced in 1984, with an airborne geophysical survey flown by Aerodat Limited. Data from a magnetometer, HEM and VLF electromagnetic system were collected over the entire property.

In 1984, the firm of David R. Bell Geological Services Inc. was contracted to undertake a geological assessment of the Regal Petroleum property. A cut grid was established over the entire property followed by geological mapping, rock sampling and limited soil geochemistry.

During the same year a preliminary phase of exploration on the "Shaft Group" of Patent Claims (old Halcrow Swayze Mine) was undertaken. Old trenches were cleaned and sampled and a cut grid was established along a 300' surveyed baseline with crosslines spaced at 100 foot intervals. Assays from grab samples ranged from 11 ppb to 7.13 oz Au/ton.

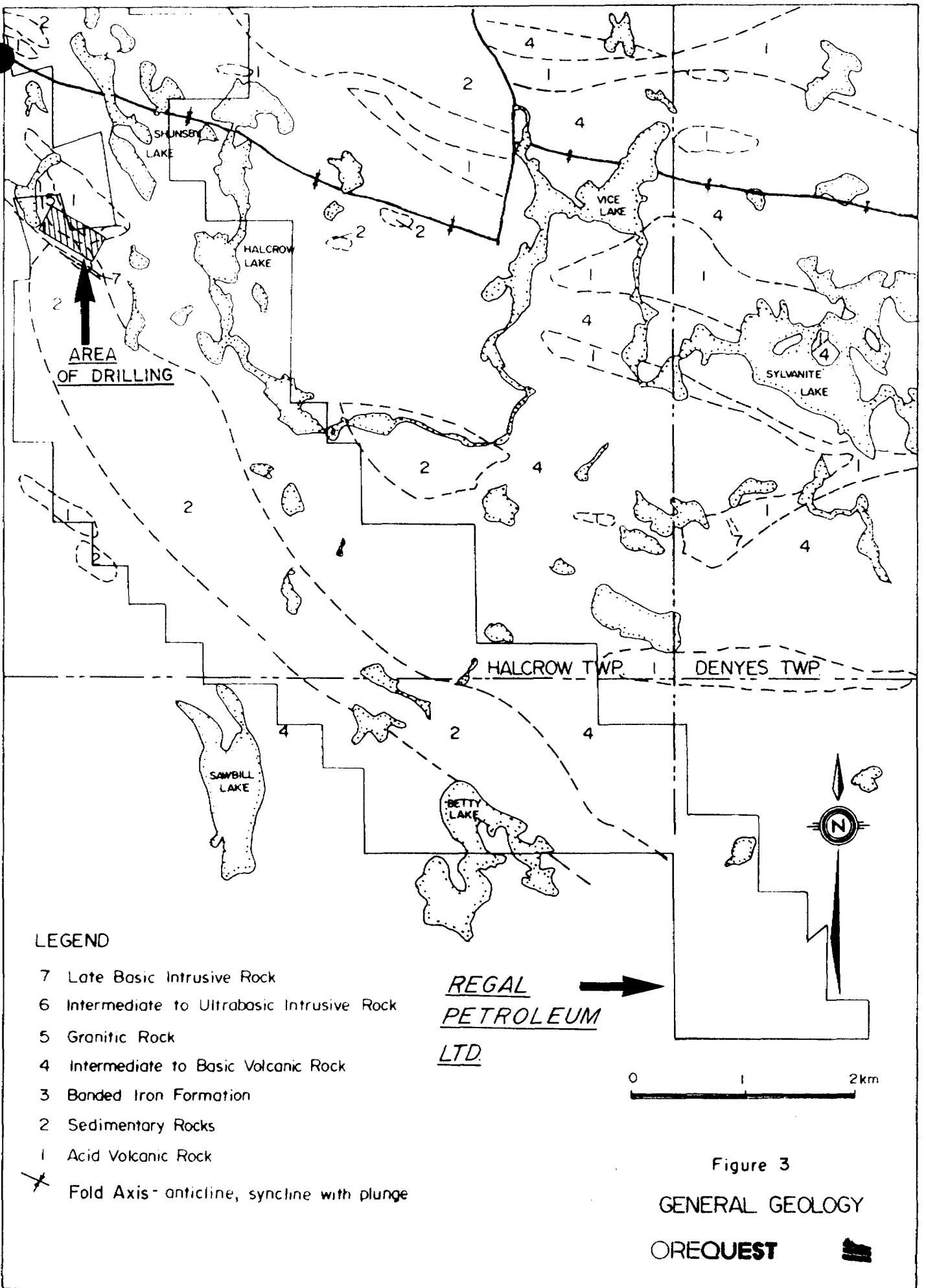
In 1985, exploration was restricted to the Shaft Group of claims (claims S 22146, S 22158 and S 22151). A geochemical soil survey and ground geophysics consisting of induced polarization, VLF-EM and magnetic surveys were completed in the early part of the summer. Sixteen trenches were also excavated and later

mapped and sampled. The trenches were located in two separate areas; twelve trenches were excavated on the Shaft Group and four others were located near the number three post of the claim S 22164. A total of 77 samples consisting mainly of grab samples with some channel and chip samples were collected from the trenches and assayed for gold.


A diamond drilling program was undertaken in November, 1985 to test the structure associated with the Halcrow Swayze Mine on the Shaft Group. The drilling was carried out by Bradley Brothers of Timmins under the supervision of OreQuest Consultants Ltd. A Viking Helicopter Hughes 500D provided the helicopter support. Diamond drilling began on November 15 and terminated on December 10 with the completion of the 14 drill holes for a total of 1,396 metres.

REGIONAL GEOLOGY

The property is situated in the western most corner of the Swayze greenstone belt. The Swayze area is an arcuate volcano-sedimentary belt grouped within the Abitibi sub-province (Figure 3).



LEGEND

- 7 Late Basic Intrusive Rock
- 6 Intermediate to Ultrabasic Intrusive Rock
- 5 Granitic Rock
- 4 Intermediate to Basic Volcanic Rock
- 3 Banded Iron Formation
- 2 Sedimentary Rocks
- 1 Acid Volcanic Rock
-  Fold Axis - anticline, syncline with plunge

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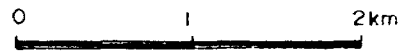


Figure 3
GENERAL GEOLOGY
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A brief account of the regional geology as taken from Ontario Department of Mines Geological Report #63 "Geology of Halcrow-Ridout Lakes Area" by J.F.

Donovan (1969) is as follows:

"The area is underlain by Precambrian rocks, consisting of acid-to basic volcanic rocks, sedimentary rocks and intrusive igneous rocks.

Intermediate-to-basic volcanic rocks are dominant and trend in an east-west direction across the area. Acid volcanic rocks are abundant in Denyes Township, but elsewhere acid volcanic rocks are intercalated with the intermediate-to basic volcanic rocks. Two major belts of sedimentary rocks transverse the map-area and form part of a major synclinal structure. The sedimentary rocks are predominantly conglomerate and quartzite with minor pelitic rocks, greywacke and arkose. A few bodies of intrusive granite cut the western part of Halcrow and Tooms Townships and a contact metamorphic zone is developed by the granite. A few bodies of intrusive diorite are closely associated with the basic volcanic rocks and numerous northwest and northeast trending diabase dikes transect all other rock types. Pleistocene and Recent deposits cover much of the area.

The rocks are steeply dipping and tightly folded about an east-west trending synclinal fold axis. The syncline is doubly plunging and its north limb is overturned; facing south. Major north-south trending fault zones are found along the Kinogama and Wakami Rivers; elsewhere small faults offset lithologic units".

The following is a table of geological units used by Donovan (1968):

TABLE 1

TABLE OF FORMATIONS

PRECAMBRIAN INTRUSIVE ROCKS

Late Basic Intrusive Rocks, Diabase

Intrusive Contact

Intermediate to Ultrabasic Intrusive Rocks:
Diorite, gabbro, lamprophyre, serpentine.

Intrusive Contact

Granitic Rocks:
Granite, syenite, monzonite, quartz, monzonite grandiorite,
quartz diorite, gneissic granite.

Intrusive Contact

INTERMEDIATE TO BASIC VOLCANIC ROCKS

Massive andesite and basalt, pillow andesite and basalt,
chlorite-hornblende-feldspar schist, basic tuff, grey massive
andesite, volcanic breccia, amphibolite, hornblende-mica-feldspar
schist, diorite and gabbro (flows or intrusions), porphyritic
andesite and basalt.

Iron Formation:
Banded iron formation, schistose iron formation.

SEDIMENTARY ROCKS

Shale, argillite, slate, conglomerate, quartzite, greywacke, arkose,
paragneiss, mica-hornblende-plagioclase-quartz schist.

ACID VOLCANIC ROCKS

Massive rhyolite, acid tuff, volcanic breccia, sericite-quartz-
feldspar schist, banded rhyolite, silicified rhyolite, rhyolite
porphyry, feldspar porphyry.

PROPERTY GEOLOGY

Mapping of the Regal Petroleum property was undertaken by Reuhl and Conquer in 1984. They summarized its geology as follows:

"The property was found to be underlain by a metavolcanic-metasedimentary assemblage dominated by massive to foliated andesites intercalated with discontinued bands of fine to medium grained sediments. Banded iron formation was located in many places on the property occurring as discontinuous pockets or lenses. Granitic rocks occupy the west central and northwest portions of the property representing the eastern margin of a pluton".

DETAILED GEOLOGY - SHAFT GROUP

Information obtained from diamond core drilling has permitted the identification of rock textures and structures otherwise indistinguishable in surface exposures. As a result, the underlying geology initially inferred from the trenching was re-interpreted.

The claim group is crosscut by a shear zone locally trending at 300° that forms the contact zone between a quartz diorite sill to the northeast and mafic volcanic rocks to the south (Figure 4).

Intense deformation and hydrothermal alteration along the contact has produced a wide cataclastic zone which has affected both the quartz diorite intrusive and the mafic volcanic rocks.

This zone which was initially thought to be sedimentary quartzites and greywackes and in past has been mapped as a felsic volcanic is in fact the result of polyphase deformation and hydrothermal alteration of the quartz diorite.

The geological section has been divided into 5 main units defined as follows (Figure 4):

- (a) **Quartz Diorite:** Sill like body, where unaltered consists of 50%-60% sodic plagioclase, minor potassic feldspars, 5%-10% quartz and up to 20% chlorite. It is generally medium to coarse grained and exhibits granoblastic to foliated textures.
- (b) **Cataclastic Quartz Diorite:** This unit is transitional between the unaltered quartz diorite and its strongly deformed variant. These mildly tectonized rocks are more foliated than the quartz diorite and large feldspar crystals form porphyroblasts. Pervasive silicification has permeated this unit together with quartz carbonate veins, quartz-carbonate chlorite-pyrite veins and variable amounts of hematite alteration. This unit may consist of zone of relatively unaltered quartz diorite and also of more deformed intervals displaying micro breccia textures.
- (c) **Cataclasite:** By definition a cataclasite is an aphanitic structureless cohesive cataclastic rock with most of the fragments being less than .2 mm in diameter. Rocks with fragments greater than .2 mm that make up more than 30% of the rock are termed microbreccia. No attempts were made to differentiate between the two types and all were classified as cataclasite. This enigmatic unit is the result of chemical alteration ie: silicification, carbonitization, chloritization, sericitization, synchronous deformation and recrystallization. The rock is highly siliceous and in hand specimens resembles a chert or quartzite. Micro brecciation has produced a mortar or mozaic texture defined by a stockwork of sericitic or sometimes sericite-carbonate-quartz hairline fractures dissecting the "cherty" rock into .2 to .5 cm fragments. These fragments are themselves formed by relict feldspar fragments and quartz grains which have undergone partial annealing and suturing along grain contacts. Larger preserved fragments of crystals are termed prophyroclasts and sometimes form up to 20% of the unit. Syn-and post-kinematic crystal growth of blue quartz has produced a blastomylonite texture.

Mylonites and blastomylonites are generally found closer to the mafic volcanic contact are product of more intense shearing causing granulation and streaking of the mineral aggregates. These rocks are fine grained siliceous, sericitic and display a foliation or banding.

Pyrite in these rocks is usually found in small chloritic stringers or in quartz-carbonate chlorite veins and generally form less than 1% of the section.

- (d) Carbonate-Chlorite Schists: This unit forms the "top" of the foot wall mafic volcanic and is usually 4 to 5 metres thick. It defines a classic mylonite consisting of finely laminated chlorite interfingered with bands of fine grained quartz-carbonate. The bands are stretched, boudinaged and tightly folded. Kink bands crosscut at a high angle to foliation. Hematite alteration is also present. Away from the shear zone and the carbonate-chlorite-schists, the remaining of the mafic volcanic sequences consists of chlorite schists, mafic tuffs and mafic lapilli tuffs.

Blocks and roof pendants of mafic volcanic are found within the quartz diorite at the top of the section.

- (e) Lamprophyre: Numerous dikes of lamprophyre cuts all rock units of the section. These are chocolate brown aphanitic with 20% feldspar phenocrysts. Quartz veining and pyrite mineralization is often found along the dikes contacts.

STRUCTURAL GEOLOGY

The cataclastic zone developed along the contact of a quartz diorite and mafic volcanic succession appears related to a regional fault trending at 300° and extending beyond the boundary of the Shaft Group.

A linear magnetic anomaly (Aerodat, 1984) parallels the trend of the shear zone and extends for 10 kilometers across the entire Regal property.

West of the shaft the contact zone dips steeply south while east of the shaft the zone appears to be rotated and faces north.

Deformation of the quartz diorite may have been initiated at an early stage by protoclasia. Protoclasia applies to cataclasis of an igneous body or parts of an igneous body, generally before it has completely crystallized (Higgins, 1971).

The felsic intrusive may originally have been emplaced along a fault plane, only to be deformed by later fault movement. In metamorphic terrain, dikes, veins and sills often formed zones of easiest movement during periods of directed stress. Polyphase deformation is evidenced by thin section examination of the Cataclasite which shows a granulation of quartz and feldspar crystal into fragments less than 2 mm and megascopic examination of rock or core specimen which typically exhibit a micro brecciation of this granulated matrix into .5 to 2 cm fragments separated by a network of sericitic veins. Deformation and alteration gradually increases from north to south, although sinusoidal dispersion of stress during deformation of the quartz diorite has produced zones of highly strained rock adjacent to less deformed rocks. For this reason intercalation of quartz diorite with its tectonised phases are found throughout the map area.

ALTERATION and ORE GENESIS

The intensity of hydrothermal alteration appears to be directly proportional to the amount of deformation affecting the different lithologies. Hence, the cataclasite has been subjected to the greatest degree of chemical change.

The least altered rock, the quartz diorite, is mildly chloritic as a result of retrograde metamorphism. Some of the hematite alteration originates from crosscutting quartz veins and permeates into the host rock.

The cataclastic quartz diorite has been subjected to strong pervasive silicification and chloritization. Sericitization of feldspar is apparent while

lesser amounts of calcite and ferroan dolomite are disseminated in the matrix or occur in late crosscutting veins.

Hydrothermal alteration is most evident in the cataclasite with several phases of silicification, sericitization and chloritization. Silica was first added during the initial granulation of the rock with a second pulse during and following brecciation of the cataclasite. Chemical remobilization of silica during this latter phase has produced annealing and suturing process along grain contacts. Sericite introduced during the early phase of hydrothermal alteration has realigned along a preferred foliation plane under metamorphic condition prevalent in the second stage of deformation.

Chlorite and carbonate were probably introduced in the early phase of deformation and could possibly be derived by the partial absorption of mafic volcanic blocks and xenoliths in the quartz diorite. Highly sericitized and silicified mafic volcanics blocks can still be recognized within the cataclasite.

Gold mineralization appears to be associated with quartz-carbonate chlorite-sericite-pyrite veins with the most common associations being quartz chlorite and pyrite. These veins are products of late stage remobilization and crosscut all lithological units. The concentration of gold is directly proportional to the amount of pyrite. Most of the mineralization occurs in the cataclasite with a higher concentration occurring along the cataclasite-carbonate-chlorite schist contact. The first two metres of the latter is also mineralized.

The following table summarized the tectonic development of the gold mineralization:

TABLE 2

Phase of Deformation	Tectonic Process	Metamorphic Process	Mineralogical Products
	quartz diorite intrusion	contact metamorphism	silica, chlorite
D1	shearing/protoclastic deformation	hydrothermal alteration	silica, carbonate sericite
		absorption of mafic volcanic xenoliths	
		retrograde metamorphism of quartz diorite	chlorite
D2	brecciation/cataclasis	recrystallization	silica suturing of quartz grains
			quartz porphyroblasts, silica-hematite (iron) tension gashes
		foliation	sericite
Post D2		remobilization	quartz-carbonate-chlorite-sericite plus pyrite veins plus/minus gold
			quartz phenocrysts

GEOCHEMISTRY

Limited soil sampling was carried out on the Shaft Group, centered around the main showing. A total of 45 samples were collected. Both the A horizon and B horizon were sampled and assayed for gold. Both horizons outlined the same anomalous zone which coincides with the mineralized contact between chlorite schist and cataclasite (Figure 5). The A horizon appears to better define the anomalous zone. The anomalies themselves may be partly caused by contamination of the soils by past mining and trenching activities.

GEOPHYSICS

Ground geophysical surveys consisting of induced polarization (IP), very low frequency (VLF-EM) and magnetic surveys were conducted on the Shaft Group in the early part of May and June, 1985.

(a) Magnetic Survey

A Geometrics G-816 proton precession magnetometer was used for the magnetic survey. The nominal station spacing was 50 feet, but many fill in readings at 25 foot intervals were taken. Diurnal variations in the geomagnetic field were monitored and removed from the survey results by "looping" between base stations.

The results of the magnetic survey are illustrated in contoured format in Figure 6.

The survey outlined a number of narrow, linear anomalies of up to 700 gammas above background which cross the grid between 4+00N and 6+00N.

In the west part of the grid the anomalies coincide with a relatively unaltered quartz diorite. The results suggest that the quartz diorite is more or less continuous across the entire grid.

(b) VLF-EM Survey

The survey was carried out with a Geonic EM-16 using the Cutler, Maine transmitter station. Readings were taken facing north at 50 foot intervals.

The in-phase dip angles and Fraser Filtered in-phase angles are shown in Figure 7.

The survey detected a number of anomalies with peak to peak in-phase dip angles which vary from a few % to up to 43%. The anomalies define two major conductors as shown on Figure 7. One conductor extends from line 12+00W to line 0+00 between 3+00N and 5+00N. A short conductor, located on lines 8+00E to 12+00E at about 4+00N, is probably an extension of this feature. This conductor occurs immediately south of the anomalies detected by the magnetic survey. In places the conductor coincides with the contact between the quartz diorite and cataclasite, but on lines 0+00 to 6+00W it is situated some 50 to 100 feet south of the mapped contact.

The second major conductor occurs along the south edge of the grid. The actual location of this feature is uncertain because its anomalies are not completely defined. The results suggest that the conductor is caused by a wide body or several narrow bodies. Since it occurs in an area of low, swampy ground

conditions it may be caused by conductive overburden.

A very poor conductor outlined by weak in-phase anomalies of 4% or less is evident at 2+50N on lines 2+00W and 0+00. Although this conductor occurs in the vicinity of the shaft on the property it is unlikely that it reflects the known mineralization.

(c) IP Survey

The IP survey was conducted in the time domain with a Crone N-IV receiver and a Phonenix IPT-8, transmitter. The dipole-dipole electrode array with an electrode spacing of 50 feet expanded through four separations was used.

The results of the survey are compiled in pseudosection format in Appendix F.

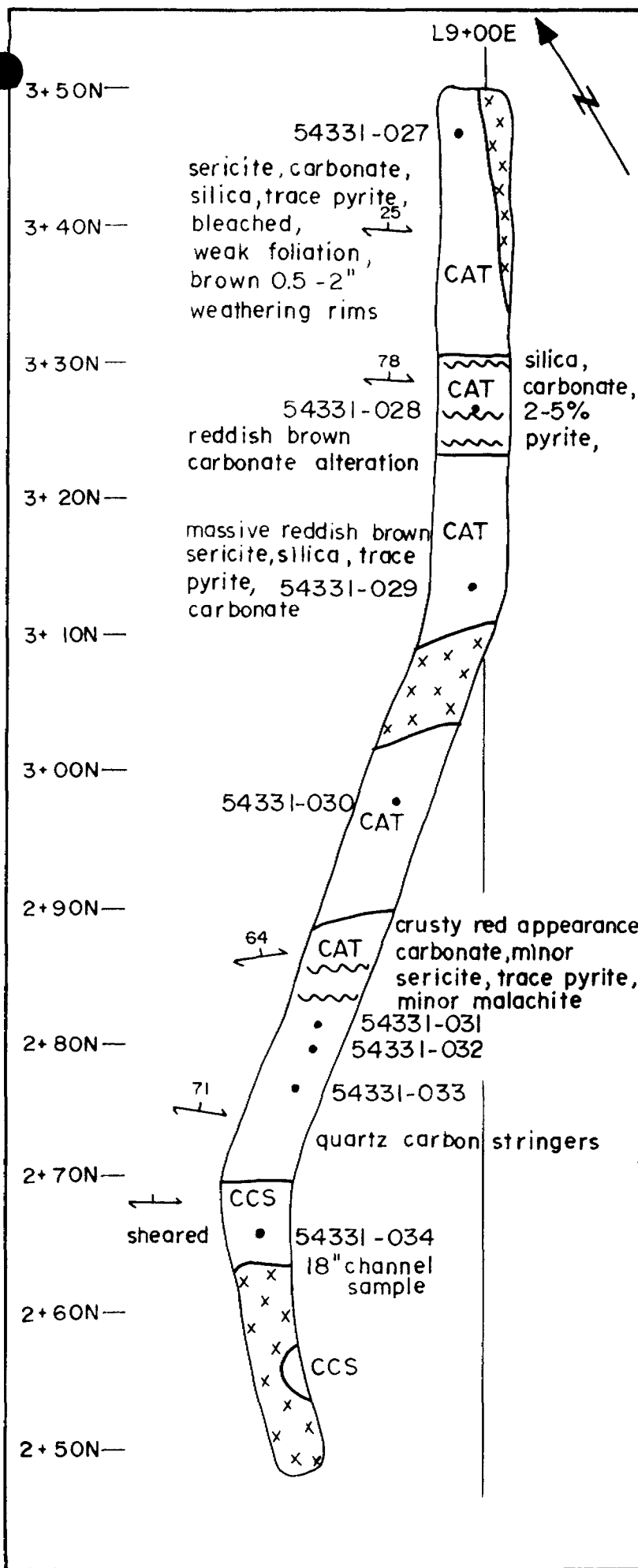
The survey detected a weak, but distinct chargeability anomaly which extends across the grid from 12+00W, 4+00N to 12+00E, 2+00N. The amplitude of the anomaly varies up about 40 msec versus a background response of less than 10 msec. Width of the cause of the anomaly varies from narrow (ie less than 50 feet which is the minimum resolution of the survey) to 200 feet. At the east end of the grid, on lines 12+00E to 4+00E, the anomaly is within the cataclastic unit. In the central portion of the grid, on lines 2+00E to 2+00W, the anomaly coincides with the cataclastic unit and partially altered quartz diorite. Toward the west, from line 4+00W, the anomaly gradually diverges from the cataclastic/cataclastic quartz diorite and at lines 10+00W and 12+00W it occurs entirely within unaltered quartz diorite.

Where the anomaly coincides with or occurs within the cataclastic and cataclastic quartz diorite, it is probably caused by minor disseminated and veinlet pyrite mineralization. The results indicate that the unaltered quartz diorite is also mineralized by zones of sulphides.

The apparent resistivities outline 3 broad regimes as follows; less than 1,000 ohm-m, 1000-5000 ohm-m and greater than 5000 ohm-m. The zone of less than 1000 ohm-m occurs along the south side of the grid east of line 0+00. This zone exhibits apparent resistivities which gradually increase with separation typical of the response of thick overburden which is believed to encroach onto the grid from the south. The zone of very high apparent resistivities occurs along the north side of the grid, from lines 4+00E to 12+00E. In this locale on the east end of the grid the very high resistivities correlate more or less with unaltered quartz diorite. The quartz diorite elsewhere in the area does not exhibit a similar signature. The moderate, 1000-5000 ohm-m resistivities underlie the remainder of the grid and host the chargeability anomaly. The chargeability anomaly is not signaturred by a particular resistivity response, such as a resistivity low that would be expected from an appreciable accumulation of sulphides.

TRENCHING PROGRAM

From June 12 to June 26 sixteen trenches were excavated using a backhoe mounted Muskeg carrier. Twelve of the trenches were excavated on the Shaft Claim Group and tested the Halcrow Swayze mine structure. The remaining four trenches were located near the number three post of claim S 22164 (Figure 4)



LEGEND

- CAT cataclasite
- CCS carbonate chlorite schist
- sample location
- ↗ foliation (inclined)
- contact
- x x x x overburden
- ~~~~~ shear zone

ASSAY DATA		
Sample No.	Au (ppb)	
all	027	25
sample	028	124
numbers	029	29
preceded	030	12
by	031	11
54331-	032	426
	033	18
	034	12



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 01

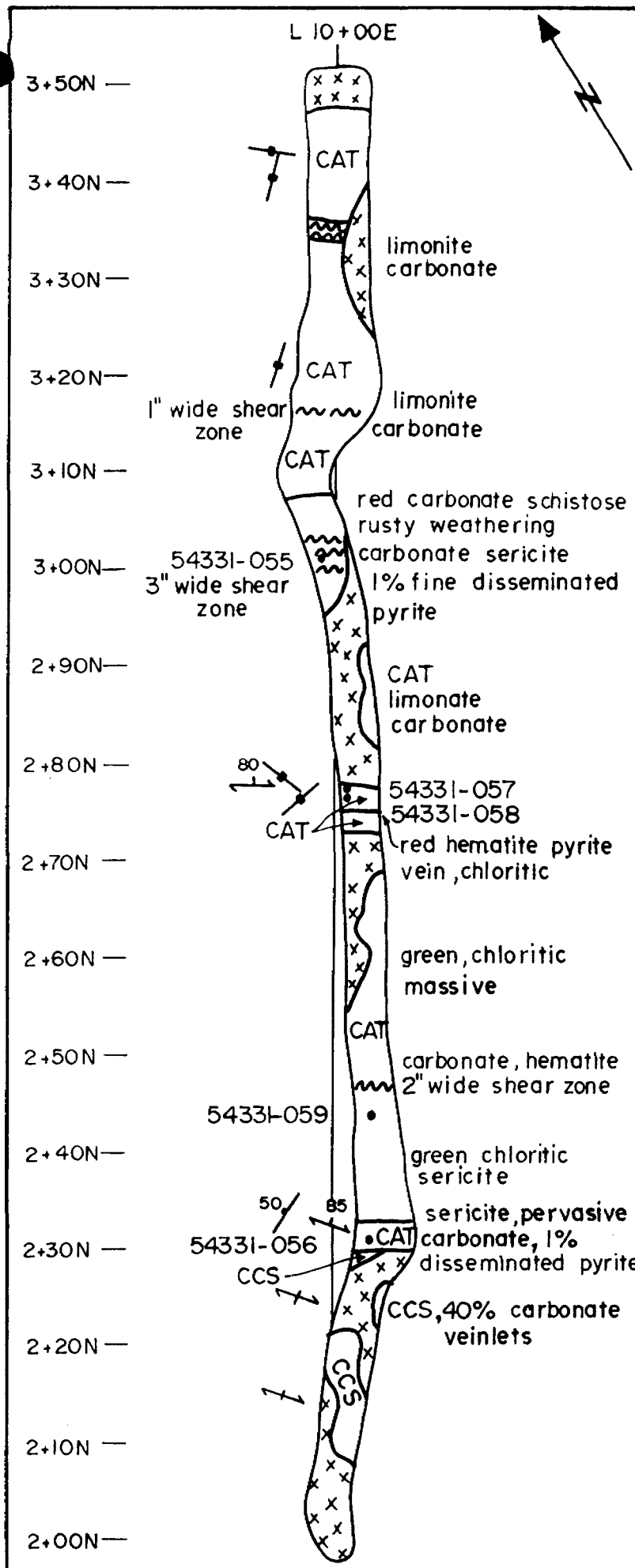
SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 8



LEGEND

- CAT cataclasite
- CCS carbonate chlorite schist
- sample location
- ↔↔↔ foliation (vertical, inclined)
- contact
- XXXXX overburden
- ~~~~~ shear zone
- joint (vertical, inclined)

ASSAY DATA

Sample No.	Au (ppb)	
all	055	321
sample	056	425
numbers	057	0.357 oz/ton
preceded	058	703
by	059	152
54331-		



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 02

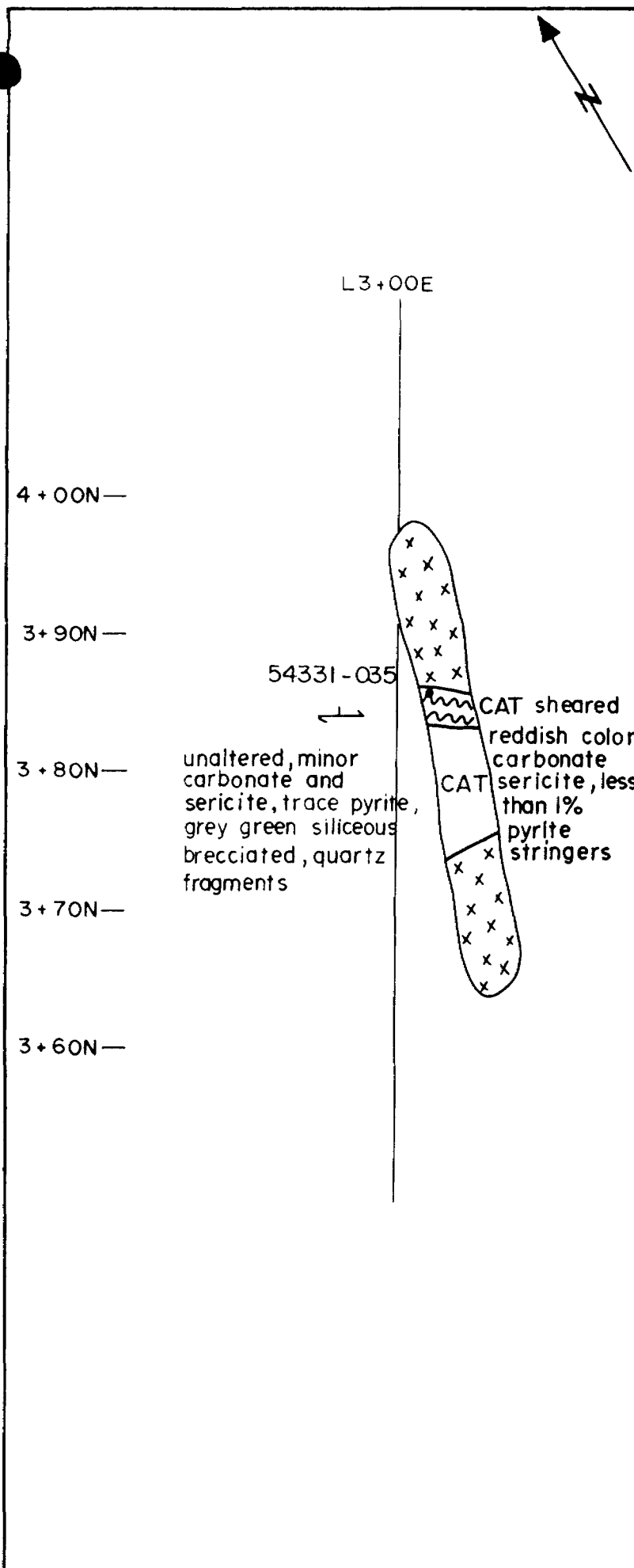
SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 9



LEGEND

- CAT cataclasite
- sample location
- ↔ foliation (inclined)
- contact
- x x x x overburden
- ~~~~~ shear zone

ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	035	52



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 03

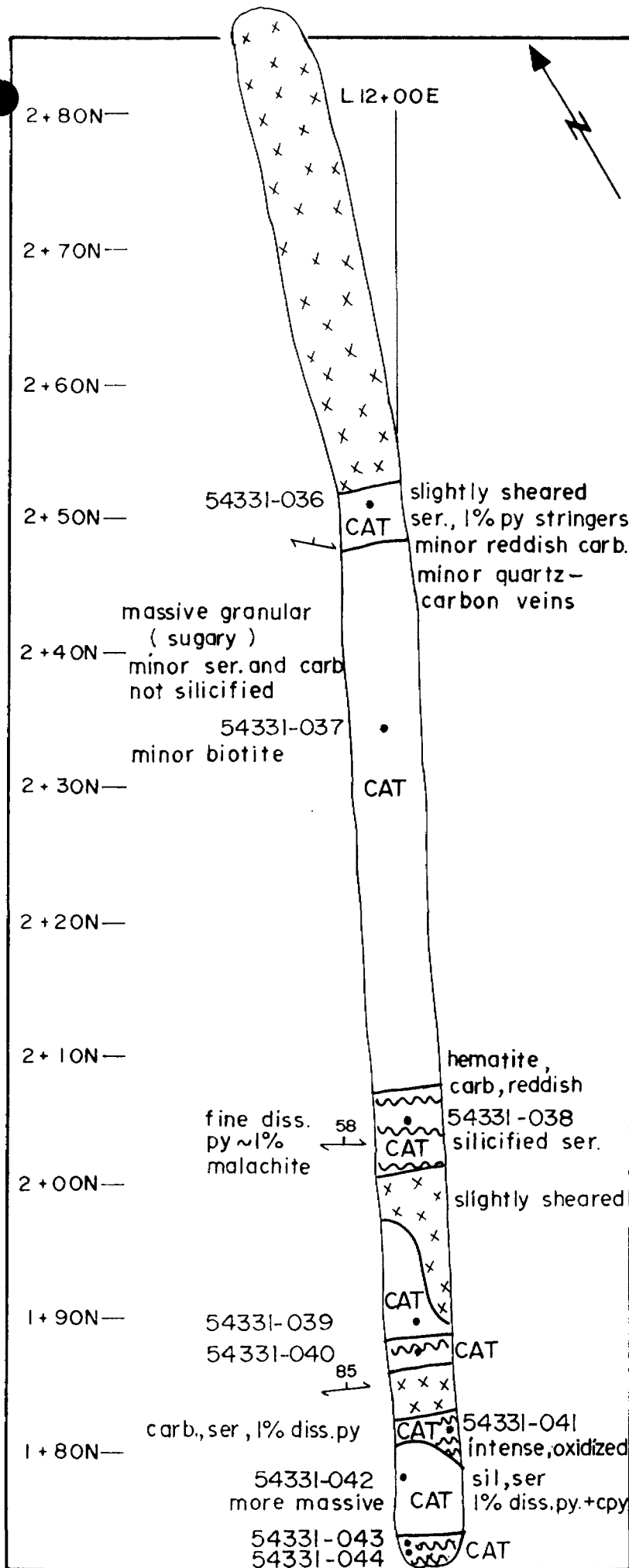
SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 10

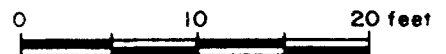


LEGEND

- CAT cataclasite
- sample location
- ↗ foliation (inclined)
- contact
- x x x x overburden
- ~~~~~ shear zone
- carb carbonate
- cpy chalcopyrite
- diss disseminated
- py pyrite
- ser sericitic
- sil siliceous

ASSAY DATA

Sample No.	Au (ppb)
all	036 62
sample	037 34
numbers	038 103
	039 107
preceded	040 750
	041 41
by	042 45
	043 26
54331-	044 82



OREQUEST

REGAL PETROLEUM LTD

TRENCH-85-04

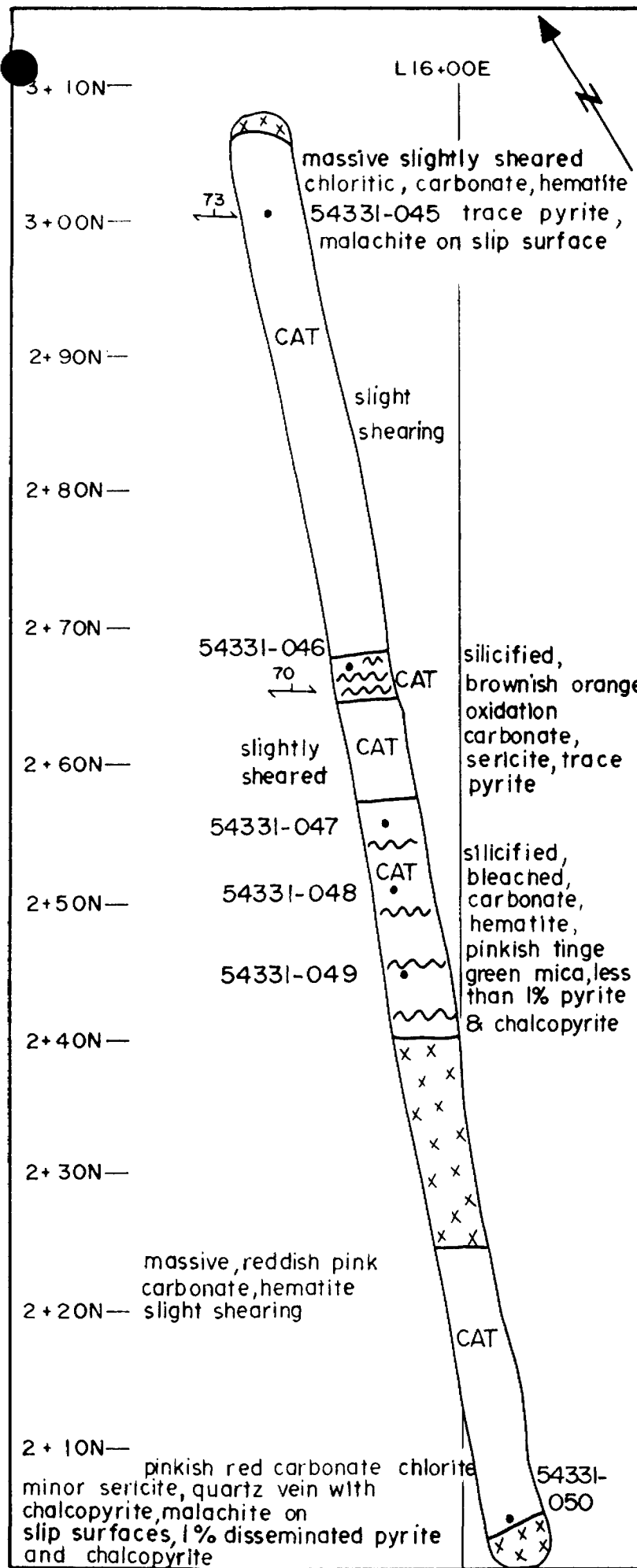
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Porcupine Mining Division, Ontario

February, 1986

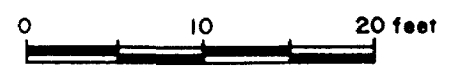
Figure 11



LEGEND

- CAT cataclasite
- sample location
- ↗ foliation (inclined)
- contact
- XXXX overburden
- ~~~~~ shear zone

ASSAY DATA		
Sample No.	Au (ppb)	
all	045	272
sample	046	137
numbers	047	34
preceded	048	48
by	049	136
54331-	050	139



OREQUEST

REGAL PETROLEUM LTD

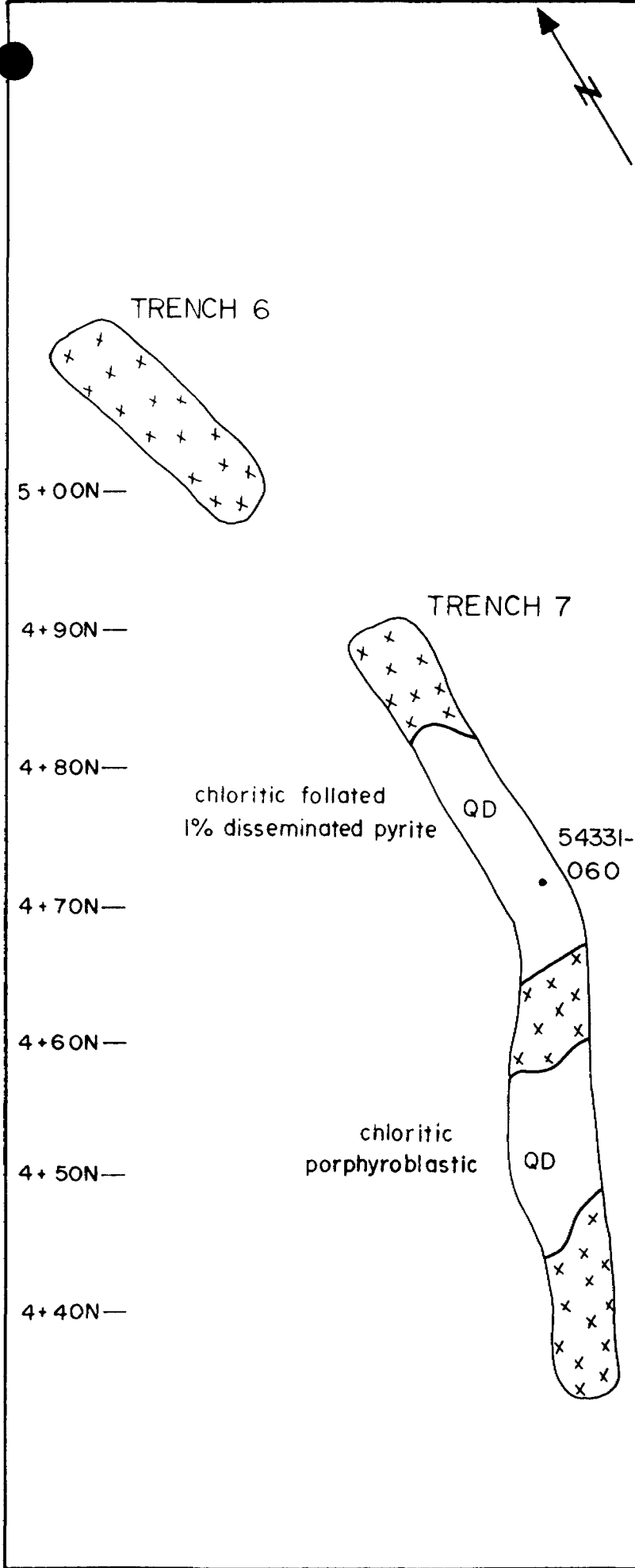
TRENCH - 85 - 05

SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

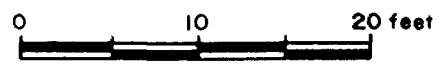
February, 1986
Figure 12



LEGEND

- QD quartz diorite
- sample location
- contact
- x x x x overburden

ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	060	27



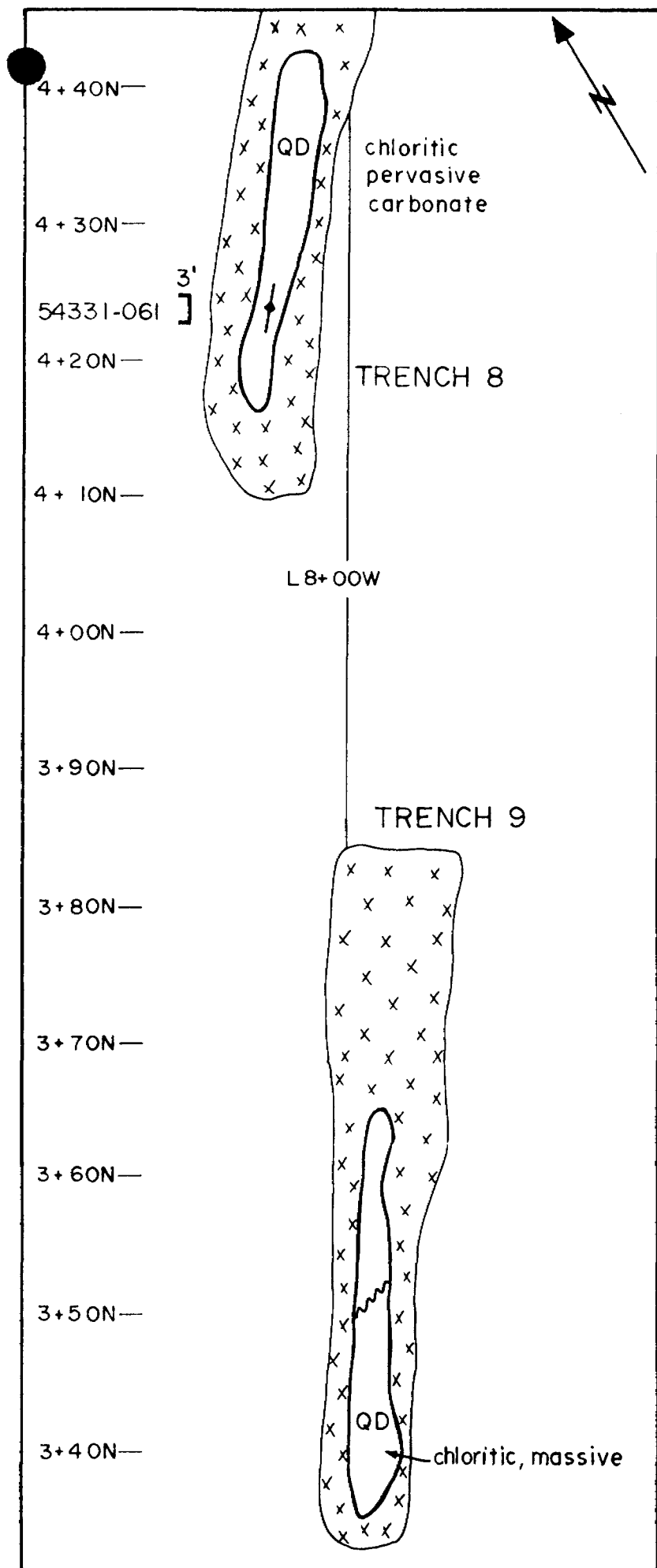
OREQUEST

REGAL PETROLEUM LTD
 TRENCH - 85 - 06, 07
 SHAFT GROUP
 PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 13



LEGEND

- QD quartz diorite
- sample location
-] channel sample location
- quartz limonite vein
- contact
- x x x x overburden
- ~ shear zone

ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	061	63



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REGAL PETROLEUM LTD
 TRENCH-85-08,09
 SHAFT GROUP
 PATENT CLAIMS
 Porcupine Mining Division, Ontario

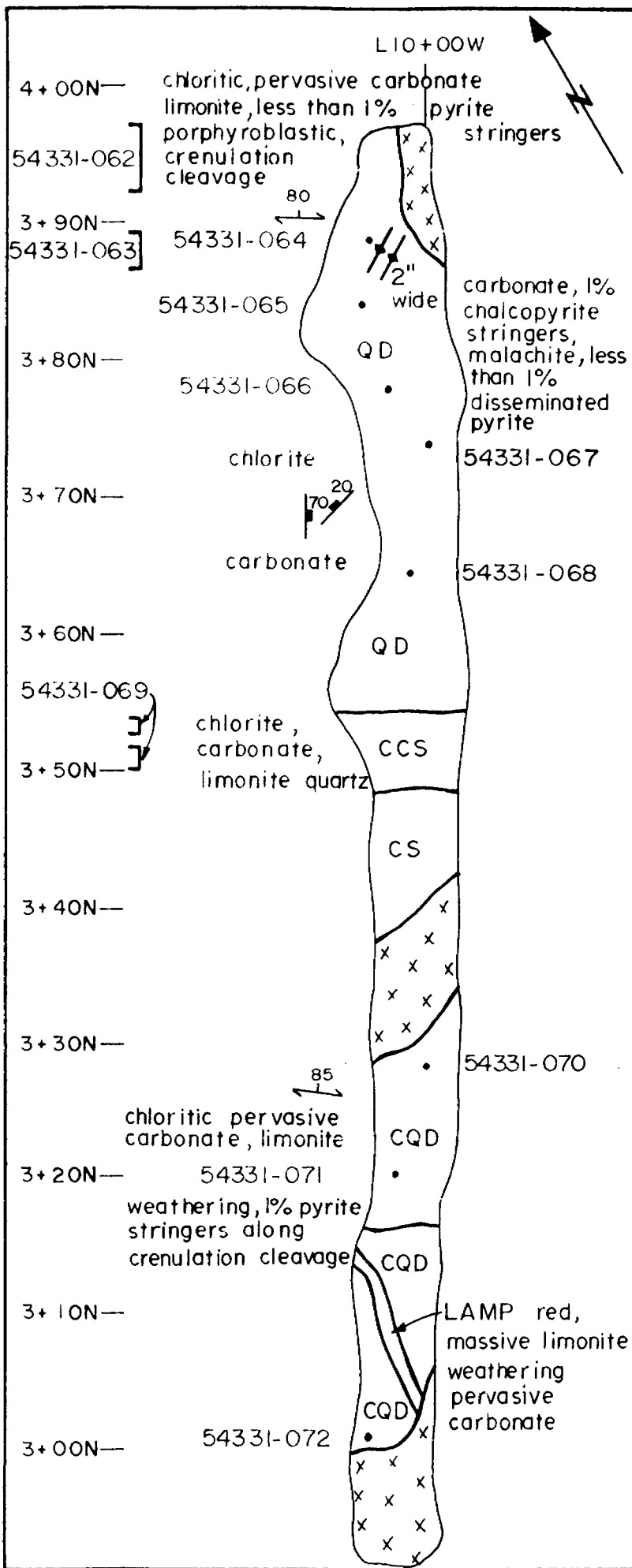
where narrow quartz filled shear zones were noted in old trenches.

In the Shaft Group area the trenches were located on both the eastern and western extension of the old Halcrow Swayze mine structure.

East of the shaft, five trenches including an extension of the old trench 10E were excavated. All trenches exposed highly altered cataclasite. The alteration is more intense in zones of shearing and consists of silicification carbonatization and sericitization. Shearing is generally parallel to foliation which trends from 120° to 150° and dips steeply to the northeast. Grab samples taken from quartz carbonate pyrite veins yielded assays of up to .771 oz/ton Au in trench 10E. Other grab samples from trench 10E returned results greater than .18 oz/ton gold with three of these samples exceeding .60 oz/ton Au. Limited chip sampling also yielded good results.

Pyrite veins and stringers are common in intensely sheared zones. These were sampled in the remaining four trenches and generally yielded high geochemical gold content, 100-700 ppb. A grab sample taken from a shear zone in trench 85-02 returned an assay value of .357 oz/ton Au. The contact zone with carbonate chlorite schist was uncovered in trenches 85-1 and 85-2.

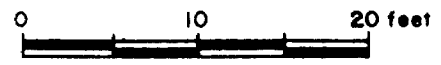
West of the shaft area, trenches 85-06 to 85-11 exposed quartz diorite and its cataclastic variants. Limited sampling, due to poor exposure, was conducted in the first four trenches, but in trenches 85-10 and 11, chip samples of quartz veins and carbonate shear zones containing pyrite and chalcopyrite yielded good geochemical gold values. Values ranging from 192 ppb to 768 ppb were obtained



LEGEND

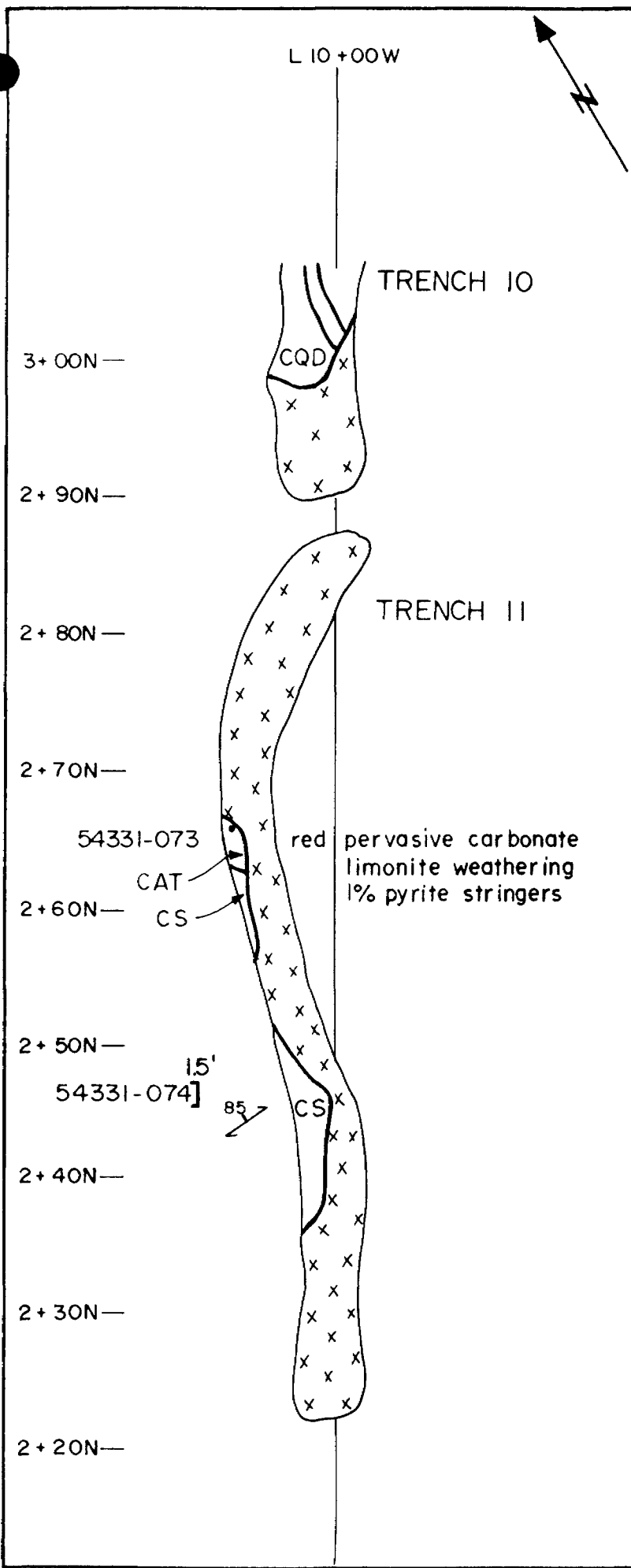
- CQD cataclastic quartz diorite
- CCS carbonate chlorite schist
- CS chlorite schist
- LAMP lamprophyre
- QD quartz diorite
- sample location
-] channel sample location
- ↖ foliation (inclined)
- ◆ quartz vein
- contact
- x x x x overburden
- joint (inclined)

ASSAY DATA		
Sample No.	Au (ppb)	
all	062	22
sample	063	454
	064	203
numbers	065	192
	066	17
preceded	067	17
	068	6
by	069	14
	070	712
54331-	071	481
	072	33



OREQUEST

REGAL PETROLEUM LTD
 TRENCH-85-10
 SHAFT GROUP
 PATENT CLAIMS
 Porcupine Mining Division, Ontario



LEGEND

- CAT **cataclasite**
- CS **chlorite schist**
- CQD **cataclastic quartz diorite**
- **sample location**
-] **channel sample location**
- ↔ **foliation (inclined)**
- **contact**
- xxxx **overburden**

ASSAY DATA		
Sample No.	Au (ppb)	
all	073	768
sample	074	22
numbers		
preceded		
by		
54331-		



OREQUEST

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TRENCH-85-11

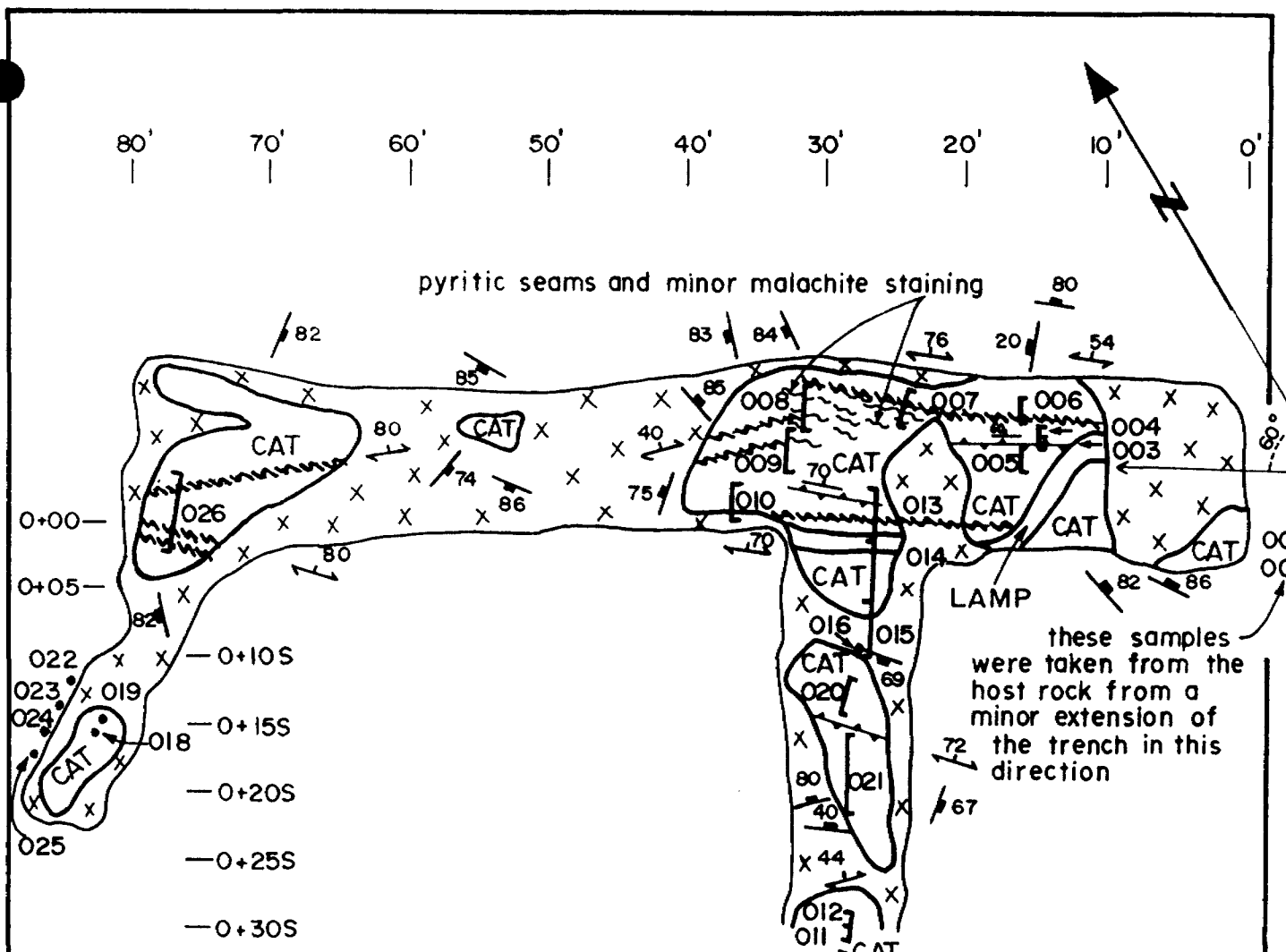
SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 16



LEGEND

- CAT cataclasite ↗ foliation (inclined)
- LAMP lamprophyre ——— contact
- sample location x x x x overburden
-] channel sample location ~~~~~ shear zone
- ▲—▲— pyrite vein —▲—▲— joint (inclined)



ASSAY DATA					
Sample No.		Au (ppb)	Sample No.		Au (oz ton)
all sample numbers preceded by 54331	002	662	all sample numbers preceded by 54331	001	0.771
	004	862		003	0.15
	005	676		006	0.035
	008	222		007	0.102
	009	533		010	0.106
	011	213		012	0.101
	013	228		016	0.488
	014	189		018	0.212
	015	429		019	0.188
	017	862		022	0.620
	020	85		023	0.734
	021	145		024	0.271
	026	483		025	0.233

OREQUEST

REGAL PETROLEUM LTD

TRENCH-85-10E

SHAFT GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986	Figure 17
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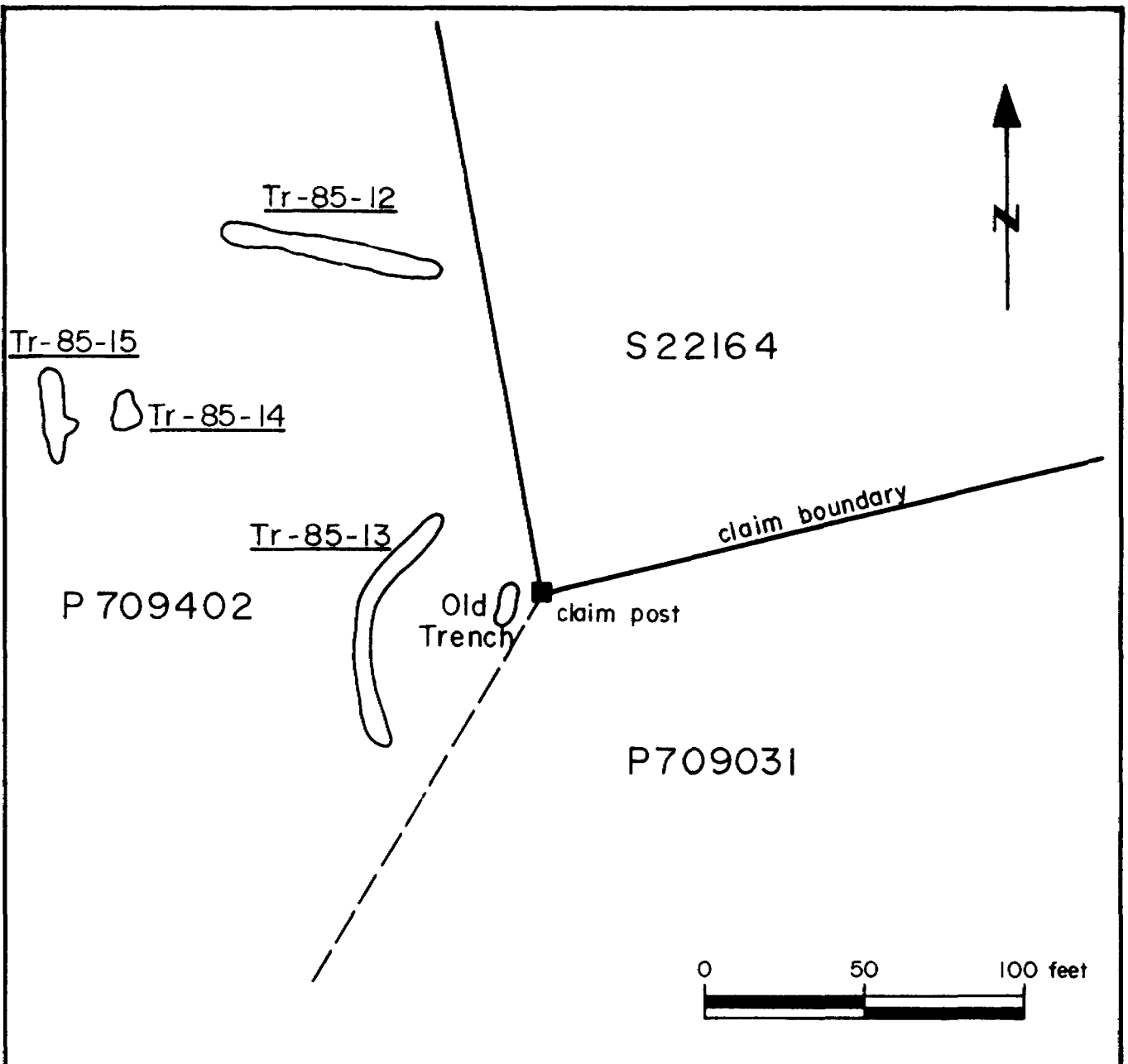


FIGURE 18

REGAL PETROLEUM LTD.

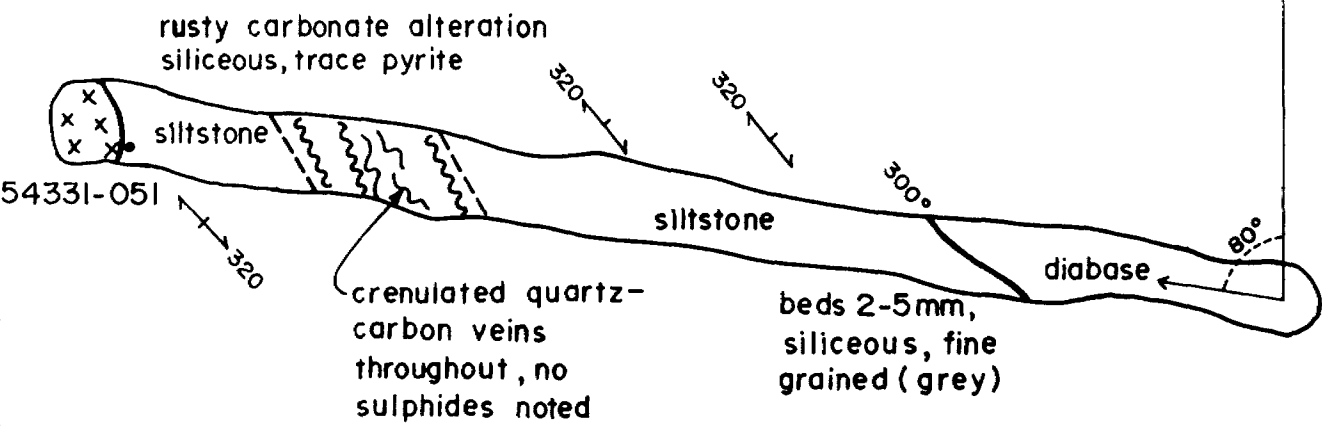
TRENCH LOCATION MAP

SOUTH GROUP

PATENT CLAIMS

Porcupine Mining Division , Ontario

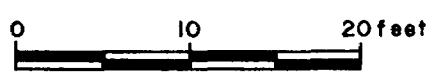
70' 60' 50' 40' 30' 20' 10' 0'



LEGEND

- sample location
- ↔↔↔↔ foliation (vertical, inclined)
- contact
- x x x x overburden
- ~~~~~ shear zone

ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	051	7



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 12

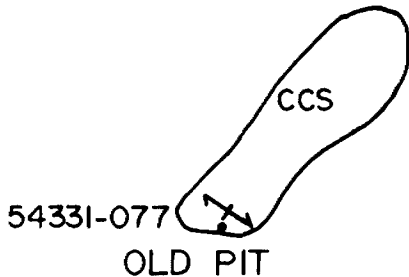
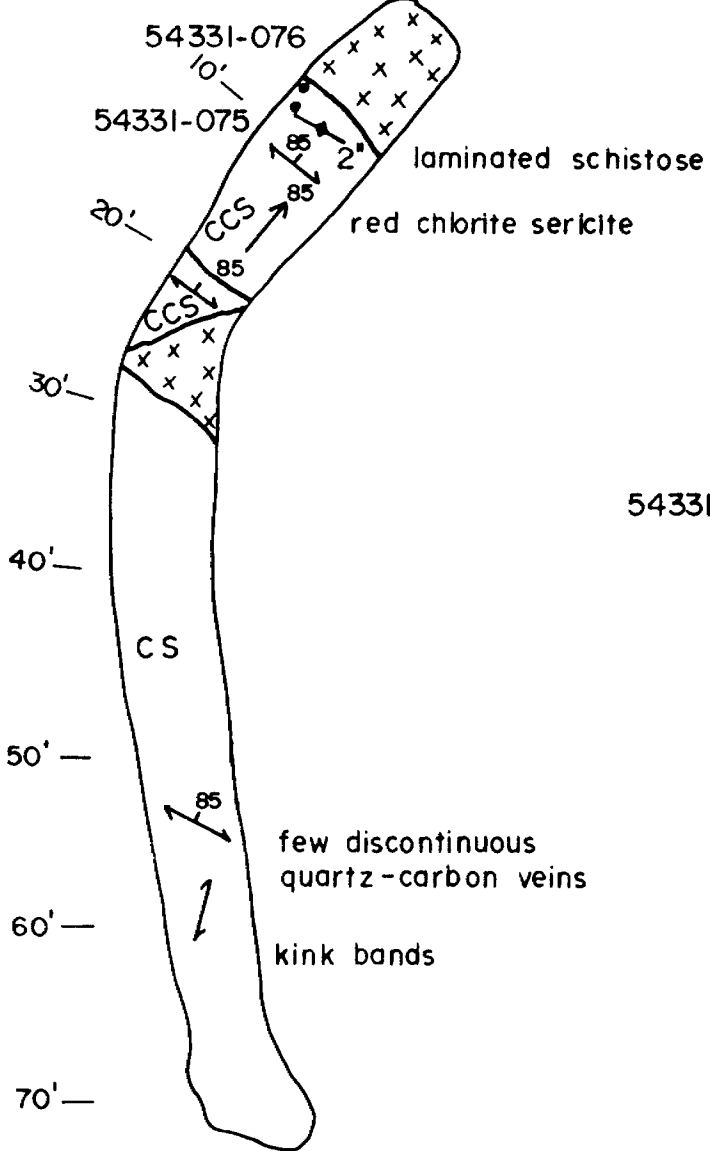
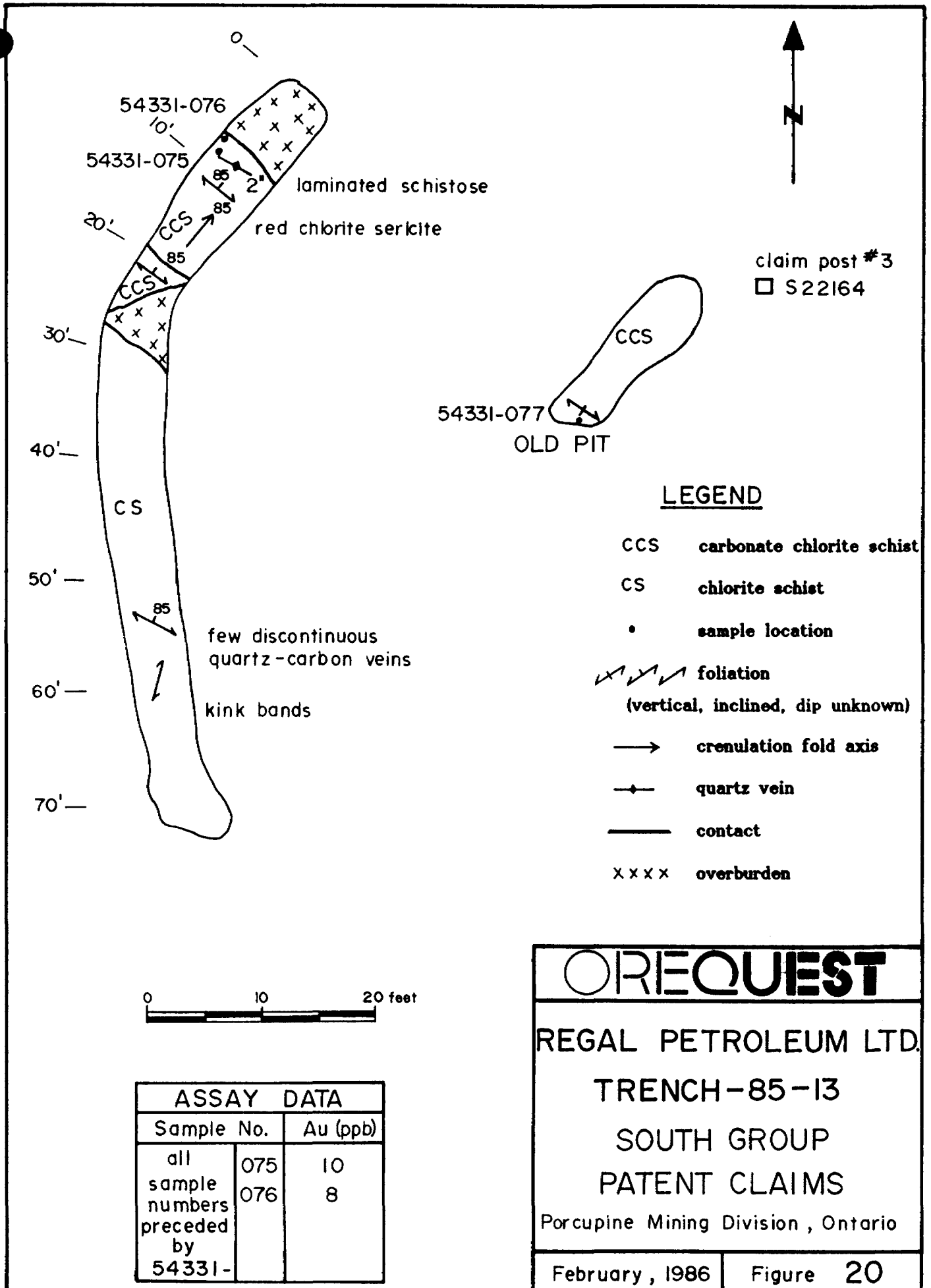
SOUTH GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 19



claim post #3
□ S22164

LEGEND

- CCS carbonate chlorite schist
- CS chlorite schist
- sample location
- foliation
(vertical, inclined, dip unknown)
- crenulation fold axis
- quartz vein
- contact
- XXXX overburden

ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	075	10
	076	8

OREQUEST

REGAL PETROLEUM LTD.

TRENCH-85-13

SOUTH GROUP

PATENT CLAIMS

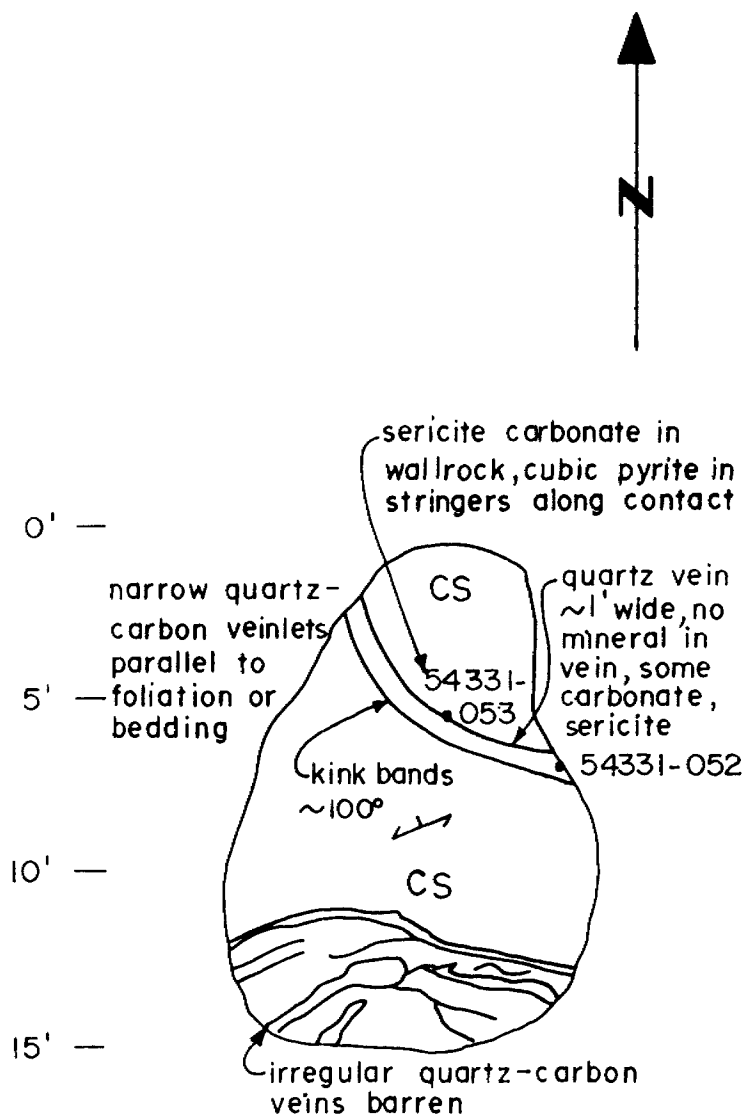
Porcupine Mining Division, Ontario

February, 1986

Figure 20

LEGEND

- CS chlorite schist
- sample location
- ↔ foliation (inclined)
- contact



ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	052	90
	053	462



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 14

SOUTH GROUP

PATENT CLAIMS

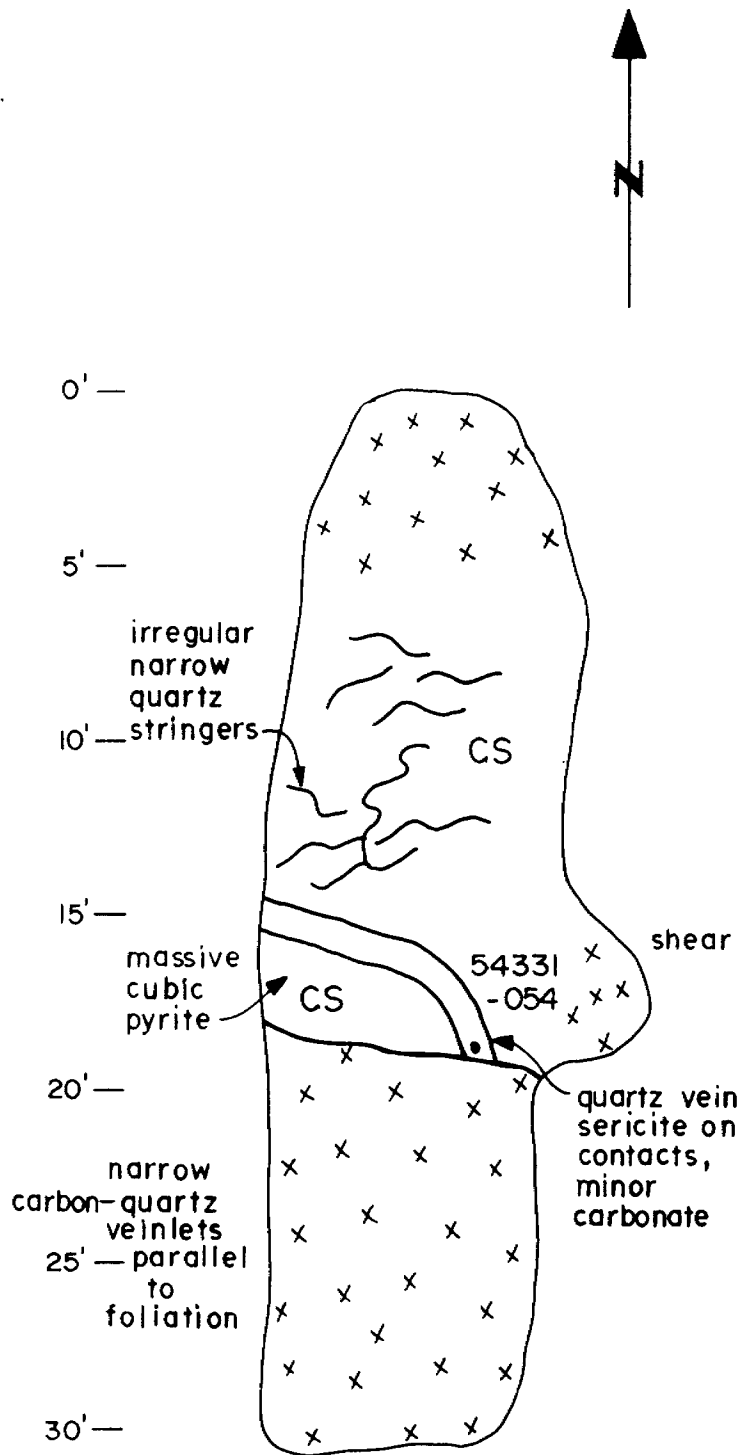
Porcupine Mining Division, Ontario

February, 1986

Figure 21

LEGEND

- CS chlorite schist
- sample location
- contact
- XXXX overburden



ASSAY DATA		
Sample No.	Au (ppb)	
all sample numbers preceded by 54331-	054	29



OREQUEST

REGAL PETROLEUM LTD

TRENCH - 85 - 15

SOUTH GROUP

PATENT CLAIMS

Porcupine Mining Division, Ontario

February, 1986

Figure 22

from grab samples taken from quartz diorite and cataclastic quartz diorite in trench 85-10 and from cataclasite in trench 85-11. The cataclasite-chlorite-carbonate schist contact is exposed in the southern half of trench 85-11.

Trenching in the area of the number three post of claim S 22164 exposed a siltstone formation in the northern trench (trench 85-12) in contact with carbonate-chlorite schist to the south. A diabase dikes cut the siltstone formation. A shear zone, approximately eight to ten feet in width was outlined from the west end of trench 85-12 to the north end of trench 85-13. Small quartz-carbonate veins are found within the shear zone.

A second shear zone, which may be a parallel zone or an extension of the first was mapped in trenches 85-14 and 85-15. A quartz vein, two feet wide, lies within the shear. Sericite and massive pyrite were noted along the contacts. Only one grab sample taken from trench 85-14, yielded significant gold content (462 ppb in quartz vein). However, as in the Shaft Group sampling was limited. A list of all assay data appears in Appendix B and is also shown in Figures 8 to 22.

DIAMOND DRILLING

On November 15, 1985 a diamond drilling program was undertaken on the Shaft Claim Group. One thousand three hundred and ninety six metres of diamond drilling was completed by Bradley Brothers Ltd. using a Boyle 25 drilling rig.

The program consisted of fourteen holes of varied lengths totalling 1,394 metres and was completed on December 10, 1986.

The main objective of the drill program was to test, at depth and along strike, the old Halcrow Swayze mine structure delineated during trenching and past exploration work.

Logistical data pertinent to the drilling program is summarized in Table 3. Individual diamond drill hole logs are included in Appendix D, complete assay results are included in Appendix E. Table 4 (page 23) lists some of the better intersections from the diamond drilling.

A brief description of individual drill hole geology and mineralization follows:

TABLE 3

Drill Hole #	Coordinates	Elevation (metres)	Dip (degrees)	Azimuth (degrees)	Depth (metres)
RG-85-01	2+89W; 3+88N	-4.5	-65	210	131.0
RG-85-02	2+89W; 3+88N	-4.5	-45	210	92.0
RG-85-03	4+00W; 4+00N	-4.5	-60	210	119.0
RG-85-04	4+00W; 4+00N	-4.5	-45	210	71.0
RG-85-05	6+00W; 4+00N	-4.5	-60	210	119.0
RG-85-06	10+00W; 4+06N	0	-60	210	80.0
RG-85-07	10+00W; 4+06N	0	-45	210	65.0
RG-85-08	0+37W; 3+39N	0	-65	215	137.0
RG-85-09	0+37W; 3+39N	0	-45	215	54.0
RG-85-10	1+00E; 4+20N	-3.1	-60	210	125.0
RG-85-11	1+00E; 4+20N	-3.1	-45	210	80.0
RG-85-12	3+00E; 5+00N	-3.7	-45	210	119.0
RG-85-13	6+00E; 4+96N	-4.5	-45	210	116.0
RG-85-14	8+00E; 4+50N	-1.8	-45	215	86.0

Sampling was carried at a 1 metre interval on split section of core. A total of 650 samples were taken over intervals of core displaying the most intense alteration and sulphide mineralization. This sampling roughly represents 50% of the cored section. The overburden encountered ranged from 1.8 metres to 5.5 metres in depth (down hole - not true thickness), overburden is not considered a problem in this area of the property. Table 4 summarizes the better intersections from the drill program.

TABLE 4

Hole	Interval (metres)	Metres	Gold oz/ton
RG-1	65.55 - 72.7	7.15	.031
	105.0 - 107.3	2.3	.05
RG-2	49.0 - 72.00	23	.041
	includes 57 - 59.6	2.6	.120
RG-3	25.0 - 28.55	3.55	.013
	86.9 - 88.5	1.6	.043
	91 - 92	1	.03
RG-4	Low values throughout - intersected underground workings.		
RG-5	15.3 - 19.3	4	.023
	58.25 - 60.25	2	.045
	76 - 77	1	.026
RG-6	53.4 - 56.4	3	.016
RG-7	7.3 - 8.9	1.6	.023
	9 - 12	3	.021
RG-8	31.5 - 34.5	3.0	0.05
	47.0 - 69.5	22.5	0.027
	79.5 - 104.35	24.85	0.047
	includes 80.5 - 83.0	2.5	0.075
	includes 96.5 - 98.8	2.3	0.105
RG-9	9 - 48	39.0	0.027
	includes 20 - 27	7.0	.025
	includes 39.6 - 48	7.4	.073
	includes 44 - 47	3.	.146
RG-10	7.0 - 9.5	2.5	0.038
	43.7 - 46.25	2.55	0.065
	66.0 - 68.0	2.0	0.150
	87.5 - 89.0	1.5	0.090
	98.5 - 105.5	7.0	0.060
	includes 99.5 - 100.5	1.0	0.092
	includes 103.5 - 104.5	1.0	0.122
	110.5 - 116.4	4.9	0.030
RG-11	53.0 - 56.0	3.0	0.026
	66.0 - 67.0	1.0	0.086
	68.0 - 69.5	1.5	0.028
	71.5 - 78.2	6.7	0.024

Hole	Interval (metres)	Metres	Gold oz/ton
RG-12	101.0 - 113.5	12.5	.03
	106.0 - 112.5	6.5	0.044
RG-13 includes	33.6 - 36.0	2.4	0.068
	35.4 - 36	0.6	0.166
	37.0 - 38.5	1.5	0.026
RG-14	48.0 - 52.0	4.0	0.028
	63.0 - 69.0	6.0	0.032
	72.0 - 73.0	1.0	0.066
	77.9 - 80.0	2.1	0.038

Drill Hole RG-85-01

The section which starts in quartz diorite include a wide zone of cataclasite from 44 metres to 106.75 metres. The section contains numerous sample intervals which assayed between .02 to .04 oz/ton gold, but sampling is incomplete.

The best assays occur at the contact with carbonate-chlorite schist and includes .026 oz/ton Au in the top 55 cm of the mafic schist.

Drill Hole RG-85-02

The section is similar to drill hole 85-01. The cataclasite starts at 27 metres and was continuously sampled from 49.0 metres to 72 metres. Average of assays yields .041 oz/ton Au over 23 metres, but complete sampling could possibly extend this zone another 22 metres. A 70 cm quartz vein crosscutting cataclasite yielded .278 oz/ton Au.

Drill Hole RG-85-03

Mineralized and brecciated quartz diorite was encountered at the top of the hole. The section between 25.0 and 28.55 metres is cut by numerous quartz and quartz-carbonate-chlorite veins with lesser sericite, pyrite, hematite and chalcopyrite. Assays average .013 oz/ton Au over 3.55 metres. The cataclasite thins out to about 22 metres true width. Only sporadic values ranging from .008 to .05 oz/ton Au were obtained from this unit.

Drill Hole RG-85-04

This hole intersected underground workings at 70 metres. The cataclasite unit is much wider than in RG-85-03, but assay values were similar and ranged from less than .005 to .028 oz/ton Au. The carbonate-chlorite schist contact is presumed to be at 72 metres.

Drill Hole RG-85-05

The top 38 metres consists of quartz diorite-pyrite veins. The interval between 15.3 metres and 19.3 metres yielded an average of .023 oz/ton Au. From 38.0 to 58.25 metres hematized cataclastic quartz diorite containing quartz-carbonate veins yielded assays up to .064 oz/ton Au over 1 metre. The cataclasite intersected between 58.25 and 79.00 metres returned mostly low values. The best grade were .084 oz/ton Au/1 metre at the top contact and .017 oz/ton near the base of the interval.

Drill Hole RG-85-07

This hole shows a rapid thinning of the cataclasite zone down to 2 metres true width. The best intersection are near the top of the hole in altered quartz diorite. The interval is silicified, contains massive pyrite and chalcopyrite veins and is cut by quartz hematite and quartz-carbonate-chlorite veins. A 1.6 metre sampling interval at 7.3 metres to 8.9 metres returned an average of .023 oz/ton Au. Other sporadic low values were obtained throughout the remainder of the quartz diorite and cataclasite quartz diorite.

Drill Hole RG-85-08

This hole started in cataclasite and cut 40 metres true width of this unit to the carbonate chlorite schist contact. Consistent mineralization from 24 metres to 140.0 metres yielded an average of .02 oz/ton Au which include .047 oz/ton Au from 79.5-104.5 metres and a high grade intersection of .105 oz/ton Au over 2.3 metres from 96.5 to 98.8 metres. This interval is found at the base of the cataclasite unit in contact with an intensely altered mafic volcanic xenolith. The carbonate-chlorite schist is not mineralized.

Drill Hole RG-85-09

This hole cut the same section as hole RG-85-08. Continuous mineralization was outlined from 9.0 to 48 metres. This section includes a high grade intersection of .270 oz/ton Au over 1.2 metres at the cataclasite, carbonate-chlorite schist contact at 46.2 metres. The mineralization extends for at least a further 1.8 metres in carbonate-chlorite schist. No samples were taken beyond 48.0 metres.

Drill Hole RG-85-10

Cataclasite is found in the first 25 metres of this hole. The interval yielded an average assay of .012 oz/ton Au from 7 to 21.5 metres. The mid section is comprised of intercalated quartz diorite and cataclasite quartz diorite to about 63.5 metres. It contains a few mineralized intervals including .065 oz/ton Au from 43.7 to 46.25 metres. The main cataclasite unit occurs between 63.5 metres and 115 metres. Continuous mineralization averages to .024 oz/ton Au over the entire 51.5 metre interval and includes three higher grade sections containing quartz-chlorite carbonate-pyrite veins. These were from 66.0 to 68.0 metres; .150 oz/ton Au, from 87.5 to 89.0 metres; .09 oz/ton Au and from 103.5 to 104.5 metres; .122 oz/ton Au.

Mineralization extends for one metre into the carbonate-chlorite schist.

Drill Hole RG-85-11

This hole cut essentially the same section as RG-85-10, but intersected the underground working at 80.0 metres. The contact with the carbonate-chlorite schist is projected to be at 82.0 metres. The top cataclasite unit was only sampled to 10 metres and yielded low mineralization values; .01 oz/ton Au over 6 metres. The main unit from 51.0 to 78.0 metres averages around .018 oz/ton Au over 27.0 metres. Section containing veins with 5-10% pyrite yielded higher assays from .024 to .086 oz/ton Au.

Drill Hole RG-85-12

The top 35 metres consists of relatively unaltered quartz diorite intermixed with 60% large sections of mafic volcanic roof pendants or xenoliths.

A cataclasite unit from 35.0 metres to 101.0 metres yielded only low sporadic intersection ranging from .006 to .016 oz/ton Au. The cataclasite is divided by an unmineralized interval of cataclastic quartz diorite from 65.6 metres to 79.25 metres. The best grade occurs in mylonite at the base of the cataclasite in contact with carbonate chlorite schist. Grades from 101.0 to 113.5 averages .03 and includes a section from 106.0 to 112.5 metres averaging .044 oz/ton Au. Mineralization also extends for 1 metre in carbonate chlorite schist.

Drill Hole RG-85-13

This section is similar to that of RG-85-12. The first 33 metres consist of intercalated quartz diorite and mafic volcanic blocks. Cataclasite, containing small intervals of unmineralized quartz diorite and cataclastic quartz diorite was cut from 33 metres to 109.4 metres. The best intersection occurs at the top of the unit. From 33.6 to 38.5 metres carbonate chlorite pyrite veins within the cataclasite yielded an average of .054 oz/ton Au over 5 metres and include a 60 cm section of .166 oz/ton Au. A few low sporadic values were obtained from the remaining section.

Drill Hole RG-85-14

The hole starts in quartz diorite, but quickly passes into cataclasite from 6.65 metres to the carbonate chlorite schist contact at 77.90 metres. From 48.0 metres to 80.0 metres, low grade mineralization is fairly consistent with the best sections varying between .028 and .066 oz/ton Au. Gold mineralization extends into the top section of the carbonate chlorite schist where a 2.1 metre interval returned .038 oz/ton Au.

DISCUSSION OF RESULTS

Results obtained from the recent drilling program are compatible with those derived from the initial work on the property by Halcrow Swayze Mines Ltd. in the 1930's.

The most consistent mineralization occurs along a 800 foot section centered on the shaft and contained between drill holes RG-85-12 and RG-85-01 and 02. On average the mineralized zone assays .025 oz/ton Au over a true width of 50 metres in the cataclasite unit and for 2 metres in the carbonate chlorite schist. High grade intersections of .105 to .146 oz/ton Au were obtained in drill holes RG-85-08, 09 and 10 in one to three metre intervals at the carbonate-chlorite schist contact.

Drifting along this contact in the 1930's by Halcrow Swayze Mines Ltd. has encountered similar values along the same zone. Possible ore reserves calculated at that time were in the order of 85,500 ton of ore grading .11 oz/ton Au over a width of 4 feet, a strike length of 900 feet and to a depth of 200 feet. An additional 45,000 ton or ore was assumed above the 354 foot level. The results of the drilling indicate that these figures are probably fairly accurate.

The drilling also proves that, although the target of interest focuses on the cataclasite-chlorite schist contact area, gold mineralization is widely distributed throughout the different lithological units. The distribution of gold also appears to follow the pinch and swell pattern of cataclastic deformation, creating pockets of fairly consistent mineralization and gaps of

largely non-mineralized rocks.

Brittle failure, resulting in the generation of fractures hosting gold bearing veins, was facilitated by the increase competency of the host rock formed by the combination of hydrothermal alteration (silicification) and structural deformation. Late stage gold bearing veins appear to occupy dilatant fractures resulting from residual stress relief associated with residual strain energy.

The accumulated strain energy peaked in the zone of maximum deformation (ie cataclasite and mylonite) and is reflected by the increase density of gold bearing veins in the lithological units.

REGIONAL OVERVIEW

The previously unrecognized cataclasite on the Shaft Group identifies a fault of probable regional proportions. The gold mineralization suggests that the fault may be similar to other mineralized faults like for example, the Destor-Porcupine Fault in the Timmins area.

Regional fault systems are often indicated in regional geophysical surveys. Regional airborne geophysical coverage of the Swayze area is provided by airborne electromagnetic and total intensity magnetic surveys conducted by the OGS in 1982 and on a more local scale by an airborne electromagnetic and magnetic survey done on the property by Aerodat for Regal Petroleum in 1984. Although the two sets of data are essentially similar, the latter survey provides greater detail because it was flown at low altitude with a helicopter

and along flight lines spaced 100 metres apart.

The mineralization and cataclasite on the Shaft Group lie in a relative magnetic low on the northeast side of southeast trending, variable amplitude magnetic high. The magnetic high extends to the east of the property for at least 10 kilometers (Figure 32). It is probable that the relative low with which the mineralization is associated is not a "real" magnetic low, but is the "induction" low that often occurs on the north side of anomalies caused by east/west trending magnetic dikes in the northern hemisphere.

In the immediate vicinity of the Shaft Group just to the north of the mineralization and cataclasite, a series of modest, variable amplitude highs, which form a linear, southeast trending anomalous zone is evident. A particularly intense part of this zone coincides with the island in the un-named lake immediately southeast of the Shaft Group. The zone of anomalies extends 1 kilometer northwest of the property and at least 2.5 kilometers to the southeast.

A diabase sill mapped to the southeast of the Shaft Group probably causes the first anomaly mentioned. The second anomaly correlates with an anomaly detected by the ground magnetic survey on the Shaft Group and is probably caused by a quartz diorite sill.

Offsets in and disruptions of the magnetic trends indicate several north/south trending cross faults in the area. Inferred faults of this kind pass through the un-named lake located on claim S 22146 and the un-named lake

located immediately southeast of the Shaft Group. It is possible that these faults have exerted some control on the localization of the gold mineralization on the Shaft Group.

Electromagnetic responses in the area of the entire Regal Petroleum property is generally weak and no anomalies were recorded over the known gold mineralization on the Shaft Group. Anomalies like 1520A, 1510A and 1500 A, however, may be important because they occupy the same stratigraphic position, relative to the two magnetic anomalies mentioned, as the known mineralization. If the known mineralization and the cataclasite are genetically and/or spatially related to the magnetic anomalies, then ground, located along the northeast side of the "main" magnetic anomaly, extending southeast from the Shaft Group to claim P 688585 may be prospective terrain.

Three of the seven showings discovered in the 1984 mapping program occur in quartzite, which may actually be a cataclasite similar to the one on the Shaft Group. Conquer and Reukel sampled "sheared quartz monzonite-andesite" with silica-carbonate alteration which returned values of up to 309 ppb gold. In zone A-2 in the southeast corner of the property a mineralized "quartzite" of similar description to the rocks of the Shaft Group returned anomalous gold values.

Most of the showings are located southwest of the regional magnetic lineament as shown on Figure 32. This situation does not necessarily degrade the preceding arguments because outcrops are scarce along the magnetic lineament and it is possible that more than one cataclasite is present in the

area.

CONCLUSIONS and RECOMMENDATIONS

The exploration program carried out on the Shaft Group property of Regal Petroleum Ltd. has delineated the presence of significant, but sub-economic gold mineralization.

Recognition of the geological environment and possible ore genesis emphasized the importance of regional structures and felsic intrusives. Gold may have been derived from the quartz diorite and remobilized during tectonic deformation associated with a regional shear zone that appears to extend along the entire length of Regal's Swayze property. It is not known yet whether the remobilization of gold was limited to the intrusive and its cataclastic border or extended through hydrothermal alteration in other geological environments bordering the regional shear zone.

Two important aspects of the gold mineralization must be highlighted:

- (1) the density of gold bearing veins is sufficient to carry a consistent grade over a significant thickness (30 to 50 metres);
- (2) the few high grade intersections show the possibility of these veins to contain significant gold mineralization.

It is recommended to further pursue exploration of the mineralized horizon both vertically and along strike. The object of this work is to test the extension of the known mineralized zone for higher grade lenses.

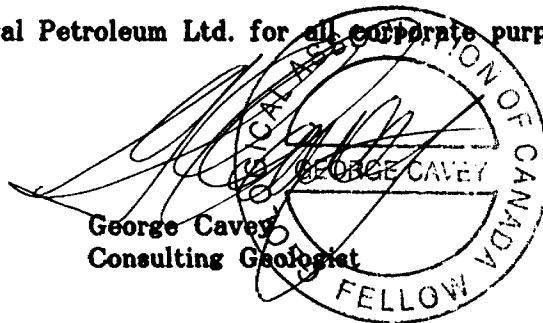
It is also recommended that the geology of the entire property be reviewed to confirm or deny the existence of a major fault in the area. The review may ultimately require selective remapping, reconnaissance induced polarization surveys and/or geological reconnaissance trenching or diamond drilling.

CERTIFICATE of QUALIFICATIONS

I, George Cavey, of 6891 Wiltshire Street, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1976) and hold a BSc. degree in geology.
2. I am presently employed as a consulting geologist with OreQuest Consultants Ltd. of 404-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies for the past ten years.
4. I am a Fellow of the Geological Association of Canada.
5. I am a member of the Canadian Institute of Mining and Metallurgy.
6. The information contained in this report was obtained from an onsite property examination and supervision of the field work conducted by OreQuest Consultants Ltd. in 1985.
7. Neither OreQuest Consultants Ltd. nor myself have direct or indirect interest in the property nor in the securities of Regal Petroleum Ltd..
8. This report may be used by Regal Petroleum Ltd. for all corporate purposes and including any public financing.

George Cavey
Consulting Geologist

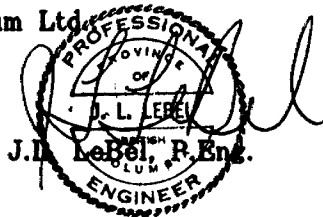


DATED at Vancouver, British Columbia, this 10th day of February, 1986

CERTIFICATE of QUALIFICATIONS

I, J. L. LeBel, of 436 W. 6th Street, North Vancouver, British Columbia
hereby certify:

1. I am a graduate of the Queens University (1971) and the University of Manitoba (1973) and hold a BSc. degree in geological engineering and a MSC. degree in geophysics.
2. I am a Professional Engineer registered with the Association of Professional Engineers of British Columbia, Vancouver, British Columbia.
3. I have been employed in my profession as a geophysicist with various companies since 1972.
4. The information contained in this report is based on field work conducted by OreQuest Consultants Ltd. in 1985.
5. I own no direct, indirect or contingent interests in the subject property or shares or securities of Regal Petroleum Ltd.



DATED at Vancouver, British Columbia, this 10th day of February, 1986.

CERTIFICATE of QUALIFICATIONS

I, Jacques R. Dumouchel, of 1516-23rd Street N.W., Calgary, Alberta,

hereby certify:

1. I am a graduate of the University of Ottawa (1977) and hold a Honors BSc. degree in geology.
2. I have been retained as an independent Consulting Geologist by OreQuest Consultants Ltd. of 404-595 Howe Street, Vancouver, British Columbia.
3. I have practised my profession for the past seven years on a full time basis since graduation.
4. I am a Professional Geologist, Registered in the Province of Alberta.
5. The information contained in this report was obtained from my direct onsite supervision of the 1985 work program completed by OreQuest Consultants Ltd.
6. Neither OreQuest Consultants Ltd. nor myself have direct or indirect interest in the property described nor in the securities of Regal Petroleum Limited
7. This report may be used by Regal Petroleum Limited for all corporate purposes and including any public financing.



Jacques R. Dumouchel
P. Geologist

DATED this 10th day of February, 1986.

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APPENDIX A
THIN SECTION REPORT

PETROGRAPHIC REPORT ON
TEN SAMPLES FROM REGAL PETROLEUM PROPERTY
SWAYZE BELT, ONTARIO
FOR
OREQUEST CONSULTANTS

L.W. Curtis
December 31, 1985

REGAL PETROLEUM - SWAYZE PROPERTY

SUMMARY

The suite represents various structurally modified quartz diorites. The most pristine of these (samples 1 to 3) contain 5-10% quartz and 85-90% sodic plagioclase, with minor potassic feldspar, 1-3% chlorite, and rare sphene and opaques.

The rocks within this structural domain have been variably sericitized; at least some of this mica and chlorite has formed through retrograde metamorphism (samples 1 to 3), whereas in other samples, sericite \pm silica \pm chlorite have been added (samples 4 to 10).

The rocks referred to as "quartzites" are silicified, cataclastic quartz diorites, ranging from transitional, mildly tectonized rocks (samples 2 to 4) to more granulated and altered variants (samples 5 to 6), to strongly deformed (samples 7 to 9) and altered (carbonated, silicified, sericitized) cataclasites. The ultimate product, represented by sample 10 is a classic ribbon mylonite.

Sulphides in the form of pyrite appear late in the system and appear to replace cataclasts or occur in the presence of carbonate \pm quartz veins.

INTRODUCTION

A suite of ten samples from the Regal Petroleum Ltd. Property in Swayze has been provided by Orequest Consultants for description. Specific requests were to determine:

- (a) structural modification of the rocks;
- (b) origin of the enigmatic "quartzite";
- (c) timing and nature of the alteration.

It should be noted that the geologist on site suspected that many of the so-called "quartzites" were in fact "tectonically altered" diorites, which when in contact with competent diorite were altered by chlorite and contained pyrite + quartz veins. Presumably this structural contact zone was the zone of interest for diamond drilling.

ABBREVIATED DESCRIPTIONS

Sample 1: (RG 85-05/8.5 m) Weakly granulated, quartz diorite, mildly deformed and altered. Chlorite, carbonate in matrix; chlorite is pre-deformation. Carbonate is recrystallized. Feldspar weakly sericitized (incipient).

Sample 2: (RG 85-05/ 48 m) Weakly deformed, cataclastic and altered quartz diorite, with abundant white mica, chlorite, carbonate. Some angular, broken quartz-rich shear zones. Pink coloration in hand sample could be due to incipient sericite alteration of the feldspar.

Sample 3: (RG 85-03/29.3 m) Carbonated (ferroan-dolomite?) altered quartz diorite. One clear coarse grained carbonate vein (late). Pink coloration evident in hand sample could be due in part to ferroan dolomite (?) and to sericite in feldspar.

Sample 4: (RG 85-05/58.3 m) Contact between breccia composed of silicified quartz diorite fragments embedded in a quartz-sericite matrix. Strongly sericitized, cataclastic. Contact with massive chlorite/sericite (or muscovite) is outlined by a selvage of quartz and carbonate.

Sample 5: (RG 85-05/60.25 m) This rock preserves relict feldspar fragments and quartz grains which have undergone partial annealing and suturing along grain contacts. I interpret this rock to represent a

cataclastic intrusive which has been partially recrystallized and cross-cut by late stage sericite veins. Although certain areas in the slide are quartz-rich, the pre-metamorphic rock is most likely to be igneous in character, since the relict feldspar is similar in habit and type to that observed in samples 1 - 4. Composite quartz-feldspar fragments are also preserved further supporting this interpretation.

Sample 6: (RG 85-03/83.7 m) This sample has similar textures to sample 5 excepting that the process of cataclasis, silicification and recrystallization has proceeded further. Again I would interpret this rock to be a cataclastic diorite with post-deformation sericite veining. The sericite has experienced a second episode of deformation and is preferentially aligned and occasionally "rolled" around broken quartz aggregates.

Sample 7: (RG 85-05/64.6 m) Another variant of the cataclastic intrusive type as seen in samples 5 and 6. Granulation of the primary quartz and feldspar has proceeded such the grains are substantially reduced in size. Rare composite feldspar-quartz fragments are still quite common, as is the late stage oriented sericite.

Sample 8: (RG 85-06/62.8 m) This rock is extremely fine grained and quartz-rich and appears to be a cataclastic rock which has been weakly mylonitized, i.e. the individual crystals have been finely ground (to a quartz flour). Relict coarser quartz grains (up to 0.2 mm) occur rarely. The rock is cross cut by aligned domains of sericite

defining a strong foliation. Occasional cataclasts are preserved consisting of recrystallized feldspar and coarse grained carbonate. The rock contains about 1-2% euhedral to subhedral pyrite. Of all the samples observed in this suite, this rock most closely resembles those from sericitic shear zones associated with gold.

Sample 9: (RG 85-05/79.1 m) A rock characterized by fine grained quartz, rare broken fragments of plagioclase and quartz, and flooded with a network of sericite microveinlets. Larger (1 mm) sized cataclasts of recrystallized quartz and carbonate are preserved and these have occasionally been replaced by pyrite.

Sericite defines a weak to moderate foliation in the rock.

If one were not familiar with the transition from diorite to cataclasite observed in the suite, this sample (like sample 8) would present a problem since it is now largely composed of quartz, hence the field term "quartzite". At least some of this quartz was probably introduced. The rock is distinguished from sample 8 by its 2-3% of chlorite, however, as with sample 8, it contains 1-2% disseminated pyrite (up to 0.3 mm).

Sample 10: (RG 85-05/81 m) This rock is a classic mylonite being composed of ribbons of chlorite interbanded with bands of fine grained quartz. The S2 fabric has been kinked at about 90° to the dominant S1 foliation. Within these kinks, coarse grained carbonate has accumu-

lated, possibly due to migration during the dynamic metamorphic phase. The chlorite is also found as shredded ribbons, suggesting dislocation and transposition along S1 boundaries has taken place.

The field term "chlorite-carbonate schist" is adequate providing the mylonite aspect is recognized. This rock could have been derived from a silicified mafic volcanic or is close to the contact of such a rock. Another alternative is that it represents a mylonitized, chloritized diorite, a possibility which is unlikely, but difficult to appraise. If this is the case, the pervasive chlorite would have to be pre-structure.

APPENDIX B
LIST OF ASSAY DATA - TRENCHING



BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B561-85

Page 1 of 2

DATE: September 4, 1985

SAMPLE(S) OF: Rock (77)

RECEIVED: August, 1985

SAMPLE(S) FROM: Mr. Mike Simunovic
David R. Bell Geological Services Inc.

Project #54331

<u>Sample No.</u>	<u>Gold ppb</u>	<u>Gold oz.</u>	<u>Sample No.</u>	<u>Gold ppb</u>	<u>Gold oz.</u>
54331-001		0.771**	54331-021	145	
-002	662		-022		0.620**
-003		0.174**	-023		0.734**
-004	862		-024		0.271**
-005	676		-025		0.233**
-006		0.035**	-026	483	
-007		0.102**	-027	25	
-008	222		-028	124	
-009	533		-029	29	
54331-010		0.106**	-030	12	
-011	213		-031	11	
-012		0.101**	-032	426	
-013	228		-033	18	
-014	189		-034	12	
-015	429		-035	52	
-016		0.488**	-036	62	
-017	862		-037	34	
-018		0.212**	-038	103	
-019		0.188**	-039	107	
-020	85		-040	750	

** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 



BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B561-85

Page 2 of 2

DATE: September 4, 1985

SAMPLE(S) OF: Rock (77)

RECEIVED: August, 1985

SAMPLE(S) FROM: Mr. Mike Simunovic
David R. Bell Geological Services Inc.

Project #54331

<u>Sample No.</u>	<u>Gold ppb</u>	<u>Gold oz.</u>	<u>Sample No.</u>	<u>Gold ppb</u>
54331-041	41		54331-059	152
-042	45		-060	27
-043	26		-061	63
-044	82		-062	22
-045	272		-063	454
-046	137		-064	203
-047	34		-065	192
-048	48		-066	17
-049	136		-067	17
-050	139		-068	6
-051	7		-069	14
-052	90		-070	712
-053	462		-071	481
-054	29		-072	33
-055	321		-073	768
-056	425		-074	22
-057		0.357**	-075	7
-058	703		-076	10
			-077	8

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

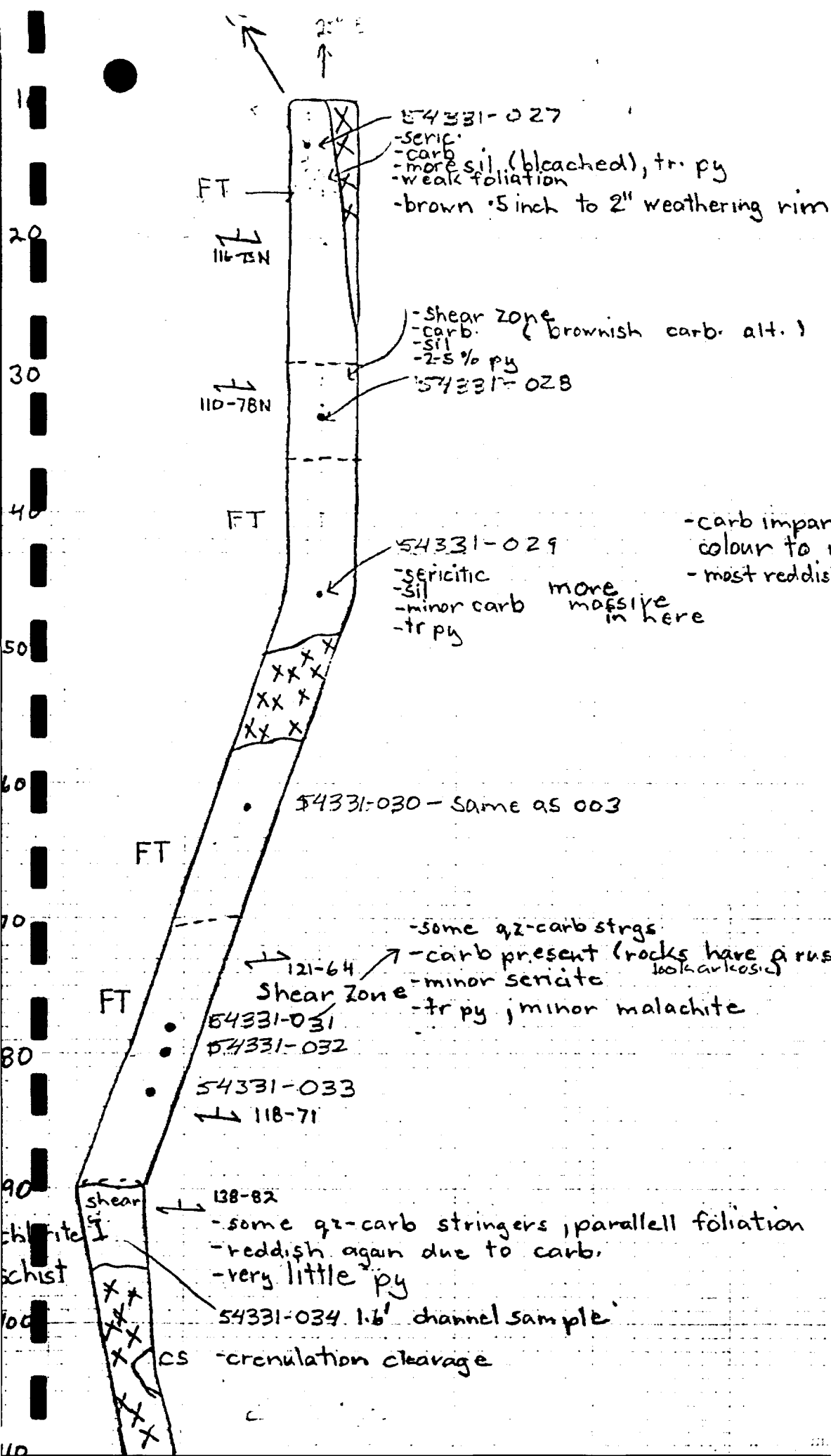
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IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

Tr # 1

LEGEND

- xxx Overburden
- FT Felsic Tuff
- CS Chlorite Schist
- Boundaries of Shear Zone



Scale
1" = 10'

chlorite schist

APPENDIX C
ASSAY REPORTS - TRENCHING

<u>Sample No.</u>	<u>Location</u>	<u>Length</u>	<u>Assay (Au)</u>
54331-001	Tr 10E	Grab	0.771 oz/ton
54331-002	" "	Grab	662 ppb
54331-003	" "	8 in.	0.15 oz/ton
54331-004	" "	10 in.	862 ppb
54331-005	" "	2 ft.	676 ppb
54331-006	" "	2.5 ft	0.035 oz/ton
54331-007	" "	2 ft.	0.102 oz/ton
54331-008	" "	3 ft	222 ppb
54331-009	" "	3 ft	533 ppb
54331-010	" "	2 ft	0.106 oz/ton
54331-011	" "	1 ft.	213 ppb
54331-012	" "	1 ft	0.101 oz/ton
54331-013	" "	4 ft	228 ppb
54331-014	" "	3 ft	189 ppb
54331-015	" "	5 ft	429 ppb
54331-016	" "	Grab	0.488 oz/ton
54331-017	" "	4 ft	862 ppb
54331-018	" "	Grab	0.212 oz/ton
54331-019	" "	Grab	0.188 oz/ton
54331-020	" "	3 ft	85 ppb
54331-021	" "	6 in.	145 ppb
54331-022	" "	Grab from loose	0.620 oz/ton
54331-023	" "	Grab from loose	0.734 oz/ton
54331-024	" "	Grab from loose	0.271 oz/ton
54331-025	" "	Grab from loose	0.233 oz/ton
54331-026	" "	6 ft	483 ppb
54331-027	tr 1	Grab	25 ppb
54331-028	tr 1	Grab	124 ppb
54331-029	tr 1	Grab	29 ppb
54331-030	tr 1	Grab	12 ppb
54331-031	tr 1	Grab	11 ppb
54331-032	tr 1	Grab	426 ppb
54331-033	tr 1	Grab	18 ppb
54331-034	tr 1	1.6 ft	12 ppb
54331-035	tr 3	Grab	52 ppb

<u>Sample No.</u>	<u>Location</u>	<u>Length</u>	<u>Assay (Au)</u>
54331-036	tr 4	Grab	62 ppb
54331-037	tr 4	Grab	34 ppb
54331-038	tr 4	Grab	103 ppb
54331-039	tr 4	Grab	107 ppb
54331-040	tr 4	Grab	750 ppb
54331-041	tr 4	Grab	41 ppb
54331-042	tr 4	Grab	45 ppb
54331-043	tr 4	Grab	26 ppb
54331-044	tr 4	Grab	82 ppb
54331-045	tr 5	Grab	272 ppb
54331-046	tr 5	Grab	137 ppb
54331-047	tr 5	Grab	34 ppb
54331-048	tr 5	Grab	48 ppb
54331-049	tr 5	Grab	136 ppb
54331-050	tr 5	Grab	139 ppb
54331-051	tr 1 near #3 post S22164	Grab	7 ppb
54331-052	tr 3 near #3 post S22164	Grab	90 ppb
54331-053	tr 3 near #3 post S22164	Grab	462 ppb
54331-054	tr 4 near #3 post S22164	Grab	29 ppb
54331-055	tr 2	Grab	321 ppb
54331-056	tr 2	Grab	425 ppb
54331-057	tr 2	Grab	0.357 oz/ton
54331-058	tr 2	Grab	703 ppb
54331-059	tr 2	Grab	152 ppb
54331-060	tr 7	Grab	27 ppb
54331-061	tr 8	3 ft	63 ppb
54331-062	tr 10	5 ft	22 ppb
54331-063	tr 10	2.5 ft	454 ppb
54331-064	tr 10	Grab	203 ppb
54331-065	tr 10	Grab	192 ppb
54331-066	tr 10	Grab	17 ppb
54331-067	tr 10	Grab	17 ppb

<u>Sample No.</u>	<u>Location</u>	<u>Length</u>	<u>Assay (Au)</u>
54331-068	tr 10	Grab	6 ppb
54331-069	tr 10	2.0 ft	14 ppb
54331-070	tr 10	Grab	712 ppb
54331-071	tr 10	Grab	481 ppb
54331-072	tr 10	Grab	33 ppb
54331-073	tr 11	Grab	768 ppb
54331-074	tr 11	1.5 feet	22 ppb
54331-075	tr 2 near #3 post S22164	Grab	7 ppb
54331-076	tr 2 near #3	Grab	10 ppb
54331-077	old pit near #3 post S22164	Grab	8 ppb

APPENDIX D
DRILL LOGS

OREQUEST



DIAMOND DRILL LOGS

Fill in on every page

Hole No. **RG-85-01** Page No. **1**

Drilling Company BRADLEY BAOS		Collar Elevation 4.5m	Bearing of hole from true North 210°	Total Footage 131m	Dip of Hole at Collar 165°	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Hole No. RG-85-01	Page No. 1
Date Hole Started NOV 18/85	Date Completed NOV 20/85	Date Logged NOV 20 21	Logged by J. Dumouchel	Dip of Hole at 65m N 63.5°			Location (Twp., Lot, Con. or Lat. and Long.) 2189W 3188N	Claim No. 522146	
Exploration Co., Owner or Optionee REGAL PETROLEUM LTD.		Date Submitted	Submitted by (Signature)	Dip of Hole at 130m N 60°				Property Name SHAFT CLAIMS	
				Dip of Hole at N 					
				Dip of Hole at N 					

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡	
From	To						From	To		Ag 02/86	Ag 02/86
0	3.6	OVERBURDEN									
3.6	5.15	Lapilli tuff	green fine chlorite matrix with 40% pink feldspar, x-tals foliated, 1% disseminated weak pervasive carbonate								
5.15	7.90	quartz diorite	green fine to medium grained massive granular quartz, feldspar, chlorite amphibole clast - chlorite banding 50% quartz carbonate veinlet, 2% disseminated pyrite folded quartz vein at 7.8m - moderately brecciated								
7.90	11.48	quartz diorite quartz vein	reddish fine to medium grained granular massive quartz, feldspar 40% chlorite clast - impregnated with 20% quartz - chlorite veins at 10-15° CA - brecciated fragments of quartz carbonate vein - diorite matrix fine grained chlorite epidote - hematized fractures at 65° CA matrix contains up to 5% pyrite x-tals in patches + stringers			09148	7.1	8.1	2.005	2.01	
						09149	8.4	9.4	2.005	2.01	
						09150	9.4	10.4	2.005	2.01	
						09101	10.4	11.3	2.005	2.04	
11.48	15.31	quartz diorite	light green granular foliated banded + brecciated quartz feldspar - chlorite epidote clast - fragmented; 20% 1-2 mm fragments with 10% of quartz diorite - angular quartz fragments 5mm-16mm								
15.31	22.20	cataclastic quartz diorite	pink reddish granular massive fine to medium grained brecciated by slickensided work of basal fractures with chlorite - pyrite in fill - 2% pyrite - quartz hematite vein at 20° CA			09102	19.35	20.35	2.005	2.05	
A 20.70	34.95	quartz diorite breccia	green mottled red as above but brecciated in large bloc 5-10cm, 50% chlorite - epidote matrix - 5% epidate vein at 10° CA - chlorite carbonate vein @ 35° CA			09103	35.2	36.6	2.005	2.01	

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DIAMOND DRILL LOGS

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Hole No. **AG-85-08** Page No. **03**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)			
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡	
From	To						From	To		Ag 02A	Ag 02B
43.95	42.20	cataclastic quartz chlorite	reddish (brecciated) - fine grained feldspathic matrix brecciated in 1-2cm fragments separated by hairline chloritic fractures + quartz epidote chlorite matrix - which quartzes grained + 1mm fragment + porphyroclasts - strongly silicified rock Small quartz sized tension gash @ 60-70° CA - quartz - epidote vein 10° + 30° CA - fracture or shear - 10° CA at 35-36m - 1% disseminated pyrite in matrix along chloritic veins								
42.20	44.20	biotite leucophyre	black massive granular speckled texture with 20% ~ 1mm feldspar stabs + 40% biotite up to 1.2m stabs in aphanitic groundmass - 2% quartz vein at 20° + 45° brecciation at contacts with carbonate vein + epidote alteration	cut at 20°							
44.20	48.10	cataclastic	grey massive fine grained strongly silicified matrix of tightly interlocked ~ 1cm cherty fragments - separated by hairline stockwork fractures in fill by sericite chlorite + silica - chlorite - carbonate chloritic fracture @ 25° CA some containing disseminated pyrite crystals - strong zoning at 25° CA			09104 09105	470 48	48.0 49.1	2.005 2.005	.01 .03	
48.10	53.65	cataclastic	pink red similar to above with greater intensity of fractures - more silica - sericite matrix containing ~ 1m - 2mm porphyroclast of blue quartz - pseudo banding at ~ 45° CA to about 20° CA cross fracturing at 70° and 0-10° CA, pyrite - mineralization along 20° to 45° fractured + sometimes concentrated in patches large quartz veinlet at 55 to 30°			09106	50.9	51.9	.018	.03	

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Hole No. **PG-85-01** Page No. **03**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Assays †				
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	Ag	Ag	oz/st		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name					
From	To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle †	Core Specimen Footage †		Your Sample No.	Sample Footage From	To	Sample Length		
53.15	56.10	Carbonate cataclastic	blue green - Sericite quartz matrix - carbonate increasing downward to 40% - blue quartz crystals increasing downward (post deformational) - silica pressure shadows on cherty fragments - principal fracture system at 210°CA - tension gash silica hairline fractures at 0-10°CA - also shears at this angle - bottom 50cm increasing biotite chlorite disseminated pyrite in quartz bands along 40° fracture system - as distinct euhedral crystals - 2%a			09107	55.4	56.4		.008	.01	
56.10	59.00	biotite lamprophyre	- same as previously described - contact has quartz carbonate epidote veins at 20°// to contact									
59.00	61.95	quartz diorite breccia	blue green quartz feldspar - massive to banded - medium grained granular - 20% chlorite - moderately brecciated exhibiting similar structures to above cataclastics - sericite carbonate chlorite veining & fracture filling - quartz - chlorite pyrite vein at 45°CA - carbonate silica vein along 0-10° tension gash - some extensive silica structures ~ 70° silica			09108	59.8	60.8		.022	.02	
61.45	65.00	siliceous cataclastic	grey massive aphanitic - siliceous brecciated rock with silica sericite carbonate fracture filling at 45° chlorite veinlet at 50° - pyrite occurs as disseminated crystals on cross fracture			09126	63.55	64.55		2.005	2.01	
						09127	64.55	65.55		.008	.02	
						09128	65.55	66.55		.024	.02	
						09129	66.55	67.55		.030	2.01	
						09130	67.55	68.6		.044	.02	
						09131	68.6	69.6		.024	.05	
						09132	69.6	70.6		.030	.03	
						09133	70.6	71.7		.038	.04	
						09134	71.7	72.7		.038	.03	
						09135	72.7	73.7		.008	.01	
						09136	73.7	74.7		2.005	2.01	
						09137	74.7	75.7		2.005	2.01	

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DIAMOND DRILL LOGS

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Hole No. **RG-85-01** Page No. **04**
Claim No.

Drilling Company		Collar Elevation	Heading of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started	Date Completed	Date Logged	Logged by	PL	Location (Twp., Lot, Con. or Lat. and Long.)		Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	PL			
				PL			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Ag	Au	oz/t
86.70	89.40	chlorite cataclitic	massive green quartz chlorite fine grained to aphanitic brecciated quartz sericite fracture fill at 45° - 50° quartz veinlet at 50° - brecciation increases towards base			09138	75.7	77.7		2.01	2.005	
						09139	76.7	77.5		.02	.020	
						09140	77.5	78.5		.01	.010	
						09141	78.5	79.5		2.01	2.005	
						09142	79.5	80.5		2.01	2.005	
89.40	90.45	mylonite	red siliceous aphanitic cherty rock - brecciated gradational contact with sericite matrix - quartz veinlet & Cu ²⁺ quartz hematite veins at 20°			09143	80.5	81.5		.01	.010	
						09144	81.5	82.5		2.01	2.005	
						09145	82.5	83.5		.01	.020	
						09146	83.5	84.5		.01	.036	
90.45	93.00	granoblastic quartz diorite	red coarse grained granoblastic quartz diorite - with 20% chlorite - 35% quartz veinlet at 60° CA - 80% tension gash - 2 sections & 20 to 30cm strongly silicified mylonite			09147	84.5	86.2		.03	.032	
						09149	89.4	90.4		.01	.016	
A 92.0	92.6	cataclastic quartz diorite	as above - silicified and brecciated chloritic fractures @ 30° quartz hematite sericite vein at bottom ~ 25° CA									
93.10	93.85	granoblastic quartz diorite	green coarse granoblastic - porphyroblastic quartz feldspar with 4% chlorite bands - 10% sericitic matrix - pressure shadows on quartz porphyroblast oriented ~ 40° CA - 2% quartz veinlet at 30° & 50° CA			09110	93.9	94.9		.01	2.005	
93.85	95.55	green calcareous cataclastic	blue green brecciated siliceous rock consisting of a mosaic of cherty fragments - small silica veins at 20° and 10° - well developed parting at 0-5° - increasing sericite at base			09111	94.9	95.85		.02	2.005	
						09112	95.85	96.95		.03	.008	

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Hole No. **RG-85-01** Page No. **05**
Claim No.

Drilling Company		Collar Elevation	Heading of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Assays †			
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	Ag	Au	oz/ton	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name				
From	To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †		Your Sample No.	Sample Footage From	To	Sample Length	
95.55	98.35	chlorite	red massive cherty rock, extensive brecciation in large 1-2cm fragments - 25-30° with quartz fill - 70-90° hematite silica veins 10°-20°			09113	97.1	98	.03	<.005	
98.25	99.25	chlorite	blue grey as above - brecciation decreasing in intensity downward. dark green carbonate sericite fracture filling - preferred orientation 25-30° quartz vein 15° - all contacts gradual - chlorite bands = 30°			09114	98	99	<.01	<.005	
99.25	101.6	mylonite	grey massive carbonitic siliceous rock brecciated at top with sericite matrix 10° chloritic fractures filling at 30° - 1% quartz vein at 45° gash veins at 70° - 1% disseminated pyrite associated with chloritic vein			09115	99.0	100.0	.04	<.005	
						09116	100.6	101.6	.04	.026	
						09117	101.6	102.6	.01	<.005	
101.3	104.4	mylonite	as above but with 5% gash at contact - greenish texture with 20% sericite matrix - foliated at 45° - gash veins at 20°	60° 45°		09118	102.6	103.6	.02	.008	
						09119	103.6	104.25	<.01	<.005	
104.30	106.0	mylonite	Similar to main unit - strong mylonite banding - increased pyrite to 5% - 30% cross cutting quartz vein at 70° at coll. in bands and along 30° chlorite sericite vein			09120	104.25	105.1	.03	<.005	
						09121	105.1	106.0	.05	.084	
106.40	107.5	biotite leucophya									
107.60	107.5	carbonate chlorite schist	dark green laminated and banded - fine grained bands 1-2mm thick of chlorite - 4-5mm bands of carbonate, quartz at top - brecciated in ellipsoidal lam fragments - mid section isoclinal folds 11 fol = 30° and banding 0-10° quartz veinlet - 2° in			09122	106.75	107.2	.04	.036	
						09123	107.2	108.65	.03	<.005	
						09124	109.5	110.5	.01	<.005	

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DIAMOND DRILL LOGS

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Hole No. AC 85-02 Page No. 02

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		P		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		P			
				P				
				P	Property Name			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Anger	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Gr	Ag	OZ/Ton
33.50	42.80	carbonaceous cataclasite	grey-similar to above with matrix infill with carbonates and sericite along fractures 2% disseminated along fracture ~ 50° - quartz hematite violet - 2% - a-20° silicified			08104	35.0	36.0		.028	.02	
						08105	39.7	40.7		.024	.02	
						08106	40.7	41.7		.018	.01	
						08107	41.7	42.8		.044	.06	
38.20	39.50	biotite amphibole	bottom contact at 30° brecciation and 20° quartz veining in local 30cm			08108	42.8	44		.028	.05	
42.8	48.70	catclastic quartz-diorite	pinkish grey massive granular fine to medium grained (sandstone texture) - feldspar chlorite sericite with 10% pervasive carbonate cement - quartz violet at 25-30° CA - 10° at 43 chlorite pyrite vein at 70° - 5% pyrite - overall 1% disseminated pyrite			08109	47.5	48.5		.028	.05	
46.70	48.70	catclastic quartz diorite	as above with increasing brecciation and sericite fracture filling at 60-63° - quartz violet 5% fracture fill at 30° and tension gash 10-20° - 2% fragmented chert - 1% pyrite mostly in 70° pyrite chlorite vein			08110	49.0	50.0		.014	.01	
						08111	50.0	51.0		.024	.01	
						08112	51.0	53.0		.028	.02	
48.70	59.50	catclastic	green reddish siliceous brecciated mosaic chert - fine fragmented with sericite infill - 50° preferred direction - 2% pyrite in 30° CA chlorite veins - tension gash at 0-20° CA gradational contacts			08113	52.0	53.0		.028	.03	
						08114	53.0	54.0		.034	.04	
						08115	54.0	55.0		.032	.02	
						08116	55.0	56.0		.024	.02	
						08117	56.0	57.0		.022	.04	
54.50	62.85	catclastic	reddish green mottled appearance similar to above - more silicified - less brecciated - 5% quartz violet filling tension gash at 20-30° and 70° - 1% disseminated pyrite in veins			08118	57	57.9		.046	.05	
						08119	57.9	58.9		.076	.07	
						08120	58.9	59.6		.278	.05	
						08121	59.6	60.6		.032	.05	
						08122	60.6	61.8		.010	.02	
						08123	61.8	62.85		.038	.02	
						08124	62.85	64.0		.030	.04	

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DIAMOND DRILL LOGS

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Hole No. **RG-85-03** Page No. **01**
Claim No. **S22146**

Drilling Company Bradley Bros.		Collar Elevation 4.5 m	Bearing of hole from true North 210°	Total Footage 119 m	Dip of Hole at collar 60°	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started Nov. 21/85	Date Completed Nov. 22/85	Date Logged Nov. 23	Logged by W. Rieren	60 m @ 60.5	119 m @ 60.5		Location (Twp., Lot, Con. or Lat. and Long.) 4 T00W; 4 T00N HALCAW TWP
Exploration Co., Owner or Optionee Regal Petroleum Ltd.		Date Submitted	Submitted by (Signature) J. Dumouhel	n 	n 		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Ru	Ag	Oz/Ton
0	4.3	overburden										
4.3	327	quartz diorite	dark grey coarse grained - porphyroblastic texture - quartz feldspar - perthite ~ 4.5 mm with 20% chlorite matrix foliated - more massive at top and progressively more deformed down hole - some section well developed porphyroblastic texture - 5% quartz vein at 70°; 40° CA			08134 08135	9.0 17.9	10.0 18.9		2.005 2.005	.02 .04	
9.0	18.9	quartz vein	quartz vein cutting at 90° with chloritic bands - filling upper contact - 5% massive pyrite as breccia fill			08136 08137 08138	24.0 25.0 26.5	25.0 26.0 27.6		2.005 .014 .012	.02 .03 .04	
17.9	18.9	Sulphide	porphyroblastic quartz diorite with carbonate sulphide vein at 50° ~ 5% pyrite stringers									
26.0	26.0	quartz diorite quartz vein	brecciated interval with 30% quartz vein at 70° & 70° - 10% chlorite bands + fragments - 5% pyrite + 1% stringers in host rock and along quartz vein contact									
26.5	29.5	brecciated quartz diorite quartz vein	quartz diorite invaded by 30% concentration of quartz chlorite - carbonate veining + areas of strong silicification partially matching host rock - thin cut at 30° - brecciated texture with hematite alteration 2% pyrite + chalcopyrite occurs in patches with brecciated veins; silicified areas are similar to cataclasite - mosaic of sericite fill fractures - unaltered block of diorite still present in this area - late 0-10° quartz carbonate hematite crystals silicified areas - 2% pyrite stringers through unaltered quartz diorite			08139 08140 08141	27.6 28.55 29.5	28.55 29.5 30.5		.022 2.005 .005	.01 .02 .01	

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DIAMOND DRILL LOGS

Fill in on every page

Note No. AG-85-03
Page No. 02
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Assays †					
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	Ag	Ag	oz/ton			
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name						
From	To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Angle	Core Section Footage †		Your Sample No.	Sample Footage From	To	Sample Length	Ag	Ag	oz/ton
30.3	30.8	brecciated quartz diorite	pink quartz carbonate hematite cutting quartz diorite at 10° - silification around vein affecting 40% of host rock										
						08142	30.5	31.4		2.005	2.01		
31.4	31.6	quartz chlorite carbonate vein	brecciated quartz chlorite carbonate vein with fragments of host rock	vn 35°									
32.3	32.7	quartz chlorite carbonate vein	as above vein occurs 60% of interval - cut at 50° strongly silicified quartz diorite - brecciated cut chlorite veins at 50m - 1% pyrite patches in vein			08143	32.4	32.4		2.005	.06		
						08144	32.4	33.4		2.005	2.01		
						08145	32.4	34.4		.008	2.01		
32.7	72.25	quartz diorite porphyroblast	more pronounced deformation - porphyroblastic texture foliated at 50° quartz carbonate vein at 70° to 70° ~ 5% 5% quartz vein at 40° some section highly silicified and brecciated - 1% disseminated pyrite - 2% pervasive hematite - at 58m foliation = 35° - 2% disseminated pyrite - matrix fill with chloritic silica vein			08146	32.0	38.0		2.005	2.01		
						08147	46.0	47.1		.008	.01		
						08148	52.6	53.1		2.005	2.01		
						08149	58.0	59.0		.020	.01		
59.0	59.0	mafic tuff	zenolith of mafic tuff - hematite alteration										
59.0	59.5a	mafic tuff	zenolith of mafic tuff - hematite alteration			08150	64.0	65.0		.020	.05		
64.0	68.0	quartz diorite	as above with 20% chlorite bands and 20% pervasive hematite giving red coloration - 10% carbonate vein as dislocated band 11 fol - 2% disseminated pyrite	fol		09301	66.0	67.0		.008	.02		
						09302	71.0	72.2		.006	.01		
						09303	72.2	72.2		2.005	2.01		
						09304	72.2	74.2		2.005	.01		
68.0	72.25	quartz diorite	dark green diorite as above with ~ 40% pervasive chlorite 20% discontinuous veins of quartz - 1-2cm - lensing gash - 2% pyrite stringers in bottom 10cm			09305	74.2	75.0		2.005	2.01		
						09306	75.0	76.0		2.005	2.01		
						09307	76.0	77.0		2.005	.01		
						09308	77.0	78.0		.016	.01		
72.25	75.10	catclasite	grey fine grained brecciated chert - as above but more pronounced deformation - contains 20% small porphyroblasts of sphene - black, green calcines - fracture at 40-50° - 20% quartz vein - quartz hematite at base - 10°			09309	78.0	79.0		2.005	2.01		
						09310	79.0	80.0		2.005	2.01		
						09311	80.0	81.0		.022	2.01		
						09312	81.0	82.0		2.005	2.01		

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Mole No. **AG-85-03** Page No. **03**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from True North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started	Date Completed	Date Logged	Logged by		PL		Location (Twp., Lot, Con. or Lat. and Long.)
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		PL		
					PL		
							Property Name

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage 1	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	02/Au
84.42	85.10	chlorite cataclasite	very brecciated - green chloritic fragments - 2 - 1cm in fills with 30% sericite chlorite stockwork - 10% silica fill tension gash at 30° to 50° - 1% disseminated pyrite			09313	83.0	83.0	<.005	.01		
						09314	83.0	84.0	<.005	<.01		
						09315	84.0	85.0	<.005	<.01		
85.10	85.20	cataclasite	pink cherry breccia with 5% pyrite stringers in 50° chloritic vein			09316	85.0	85.14	<.005	<.01		
						09317	85.14	86.9	<.005	<.01		
						09318	86.9	87.9	.050	.03		
85.20	88.25	mylonite	fine to medium grained quartz feldspar with intense silification and increased sericite chlorite matrix - banded texture - fragments less distinct with 20% quartz feldspar porphyroblast - 1-2m - banding at 60° - 1% disseminated pyrite - quartz tension vein with some hematite at 30° - 50°			09319	87.9	88.5	.032	<.03		
						09320	88.5	90.0	<.005	<.01		
						09321	90.0	91.0	<.005	.01		
85.70	86.20	quartz vein	quartz vein 40% of interval - cutting at 5° with 10% chlorite, host rock brecciated - tension gash, hematite rim or vein, 2% pyrite stringers									
88.25	89.20	mylonite	light green - grained - banded chlorite - sericite fuchsite with 20% chert bands small porphyroblasts banding at top 45° - deformed at base - folded foliated & 10° - abrupt contact at 40° - top contact conformable at 45° - sericitic schist, 1% quartz vein at 30°			09322	91.0	92.0	.030	.03		
						09323	92.0	93.0	<.005	.01		
89.20	94.25	cataclasite	red green brecciated chert fragments - 20% sericite - 2% disseminated pyrite banding at 45° - 2% quartz hematite veinlet at 30°			09324	93.0	94.25	<.005	<.01		
94.25	94.84	mylonite	fine grained light green laminated chert - sericite as above - less brecciated with 2% pyrite disseminated with sericite	fol. 80°								

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DIAMOND DRILL LOGS

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Hole No. **BC-85-04** Page No. **02**
Claim No.

Drilling Company		Collar Elevation	Heading of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started	Date Completed	Date Logged	Logged by		Pl.		Location (Twp., Lot, Con. or Lat. and Long.)
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Pl.		
					Pl.		
					Pl.	Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡		
From	To						From	To		Au	Ag	oz/tm
48.0	49.0	cataclasite	gray green breccia chlorite - cherty fragments - 1cm in situ with sericite + chlorite - 20% and 15% quartz carbonate veinlet at 70° - 80° CA - possibly altered diorite - some sections more massive - granular - spotted texture from chlorite, gradational arbitrary contacts quartz chlorite vein at 10°			09340	44.0	45.0		1.005	1.01	
						09341	45.0	46.0		.006	1.01	
						09342	46.0	47.0		1.005	1.01	
						09343	47.0	48.0		1.005	1.01	
						09344	48.0	49.1		.012	.01	
49.0	58.0	cataclasite	reddish green brecciated fragments - 2-4cm in sericite chlorite + carbonate matrix - 1% tension gash - 5% pervasive hematite - quartz hematite pyrite (massive band) at 70° 1% disseminated pyrite - possible altered diorite fracture + vein - 70°			09345	49.1	50.0		.026	.01	
						09346	50.0	51.0		1.005	.01	
						09347	51.0	52.0		.006	.01	
						09348	52.0	53.0		.018	.02	
						09349	53.0	54.0		.026	.04	
						09350	54.0	55.0		1.005	.03	
58.0	71.0	chlorite mylonite	dark green massive chloritic chert breccia with 10° - 20° sericite carbonate matrix and fracture fill at 35° + 60° (5% tension gash) 3% quartz carbonate at 40°, 2% pyrite stringers - lot - quartz hematite veinlet at 68.5m at 0° CA - last 2m show strong pervasive silicification - moderate in rest of section - 68m - 71m increase sericite alteration -			09351	55.0	56.0		1.005	1.01	
						09352	56.0	57.0		1.005	1.01	
						09353	57.0	58.0		1.008	1.01	
						09354	58.0	59.0		1.005	.01	
						09355	59.0	60.0		1.005	1.01	
						09356	60.0	61.0		1.005	.02	
						09357	61.0	62.0		.022	.01	
						09358	62.0	63.0		1.005	1.01	
						09359	63.0	64.0		.016	.03	
71	-	drift	no core end of hole -			09360	64.0	65.0		.024	.02	
						09361	65.0	66.0		1.005	1.01	
						09362	66.0	67.0		.008	.06	
						09363	67.0	68.0		.016	.01	
						09364	68.0	69.0		1.005	1.01	
						09365	69.0	70.0		.030	.01	



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DIAMOND DRILL LOGS

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Note No. RG-8505 Page No. 2

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.				
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)					
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name					
Footage		Rock Type		Description	Planar Feature Angle		Core Specimen Footage	Your Sample No.	Sample Footage	Sample Length	Assays †	
From	To			Colour, grain size, texture, minerals, alteration, etc.				From	To		g/t	oz/ton
R 31.8	37.75	QUARTZ DIORITE		As above but with reddish tinge due to hematite? alteration. Foliation is quite well defined even some small areas and not so well in others. Well foliated areas cut G.A. at a steeper angle than before, 40-50°. Slight increase in the amount of carbonate present as veins and small blotches particularly near bottom of section.	veins cut G.A. 40-50°		09376	32.4	37.5		.026	.04
R 37.75	43.60	CATACLASTIC QUARTZ DIORITE		As above but is a silicified zone, has a pale grey colour and contains numerous quartz-carbonate veins and large blotches. Pyrite and chalcopyrite are found as small bands and disseminations within the veins with subhedral to euhedral crystals present.			09377 09378 09379 09380	44.4 45.4 46.4 47.4	45.4 46.4 47.4 48.4		.066 .032 L.005 .008	.04 .09 .03 L.01
R 42.25	42.85	CATACLASTIC QUARTZ DIORITE (CQD)		As above, reddish tinge hematite alteration, Qtz-carb veins parallel to foliation and crosscutting. The crosscutting veins show no specific orientation.			09381	48.4	49.4		.064	.04
R 43.60	57.25	C Q D		As above but with reddish tinge hematite alteration with increase in chlorite and carb veins and blotches. Some shallow carb veins cut G.A. at 10-15°. Generally somewhat finer grained than top of unit. Mineralization consists of Qtz-carb-chl-px veins with subhedral to euhedral pyrite crystals. Veins replaced parallel to foliation and cut G.A. at ~40-50°.	veins 15° cut G.A. 40-50°		09382	52.25	57.25		L.005	.01
R 57.25	59.20	C Q D		As above but with increase in chlorite, some minor amounts of disseminated pyrite.			09383	57.26	59.25		.084	.06

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DIAMOND DRILL LOGS

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Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Section Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	oz/ton
58.25	67.00	catclasite	pinkish grey/blue grey fragmentated chert in 2-5cm angular fragments forming a mosaic texture defined by stockwork hairline fractures - infill with a sericite carbonate matrix - strong pervasive silification			09384	59.25	60.25		.006	.04	
			pervasive carbonate 70% - pycnite vein at 15° - 290			09385	60.25	61.25		<.005	<.01	
			5% quartz chlorite carbonate at 35° - 10°/N 70° and 5° tension gash silica fill - 2% disseminated stringers of subhedral pycnite associated with chlorite vein	fol 65°		09386	61.25	62.0		.008	.03	
58.25	60.10	catclasite	pinkish grey - aphanitic with moderate silification - 5-10% massive subhedral pycnite vein	61.55°		09387	62.0	63.0		<.005	.02	
						09388	63.0	64.0		.008	.01	
						09389	64.0	65.0		.006	<.01	
62.25	64.20	catclasite silicified	siliceous mass - cut by quartz - chlorite vein 2-4mm thick			09390	65.0	66.0		.006	.02	
64.20	64.90	catclasite silicified	as above			09391	66.0	67.0		<.005	<.01	
67.00	72.10	granoblastic mylonite	bluish grey fine grained - granoblastic with Fleaser texture (bending) quartz + calc spar 50% well developed, porphyroblastic texture at 67m - 5% strong carbonate alteration pervasive + 20% 50° vein with sericite - pycnite 2% disseminated + in 50° carbonate sericite veins or stringers	fol 66°		09392	67.0	68.0		<.005	<.01	
						09393	68.0	69.0		<.005	.01	
						09394	69.0	70.0		.012	.04	
						09395	70.0	71.0		.014	<.01	
						09396	71.0	72.0		<.005	.04	
70.00	71.20	granoblastic mylonite	silicified intervals - with 3% chlorite pycnite stringers at 35°	fol 66°		09397	72.0	73.0		<.005	<.01	
						09398	73.0	74.0		<.005	.02	



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DIAMOND DRILL LOGS

Fill in on
every pageNote No.
RG-85-06Page No.
1

Drilling Company BRADLEY BROTHERS		Collar Elevation 0 m	Bearing of hole from true North 210°	Total Footage 80M	Dip of Hole at collar 60°	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No. 522146
Date Hole Started Nov. 25/85	Date Completed Nov. 26/85	Date Logged Nov 27/85	Logged by WESLEY RAVEN		20m at 60°		Location (Twp., Lot, Con. or Lat. and Long.) 10+00 W... 4+06 N	Property Name HALCROW TWP
Exploration Co., Owner or Optionee REGAL PETROLEUM LTD		Date Submitted	Submitted by (Signature)		n/			
					n/			

Footage From	Footage To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Fracture Angle	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
							From	To		AV	AG	OZ/ton
0	3.7	OVERBURDEN										
3.7	62.15	QUARTZ DIDRITE (Q.D.)	Medium grained generally becoming finer grained downward though coarse grained areas exist throughout the section. Colour is generally a greyish green with variations due to alteration. Alterations include a reddish tinged hematite stained, pale grey silicified zones, pale grey-green carbonate and reddish brown hematite? Carbonate is found throughout the unit as small veins and blotches. Other veins include Qtz, carb, chl, Qtz-carb, Qtz-carb-chl. Pyrite is found within the veins (5-10%) and in disseminated form - 2%. Crystals are generally subhedral to euhedral. Overall a moderately well developed foliation is present - better in some areas than in others. Has an overall "granoblastic" texture with some sections starting to develop a mylonitic texture with gentle elongation of the grains sheathed by chlorite with an overall stretched out appearance. Foliation cuts C.A. at 40°-50° Average composition: 15% quartz, 60% plagioclase, 25% chlorite.			OR231	8	9		2.005	2.01	
3.7	7.60	Q.D. Hematite stain	As above with reddish tinge hematite stain. Some large plagioclase crystals. Some small carb veins and tension gashes and small Qtz-carb veins with oxidation present along some vein fracture surfaces. Small zone of broken up carb with gash present throughout from 6.3 to 6.7	Fl								
7.60	18.95	Q.D. silicified	As above but generally finer grained with abundant quartz in matrix and bluish-grey quartz veins, and Qtz-carb veins. Pale green carb? @ B.O. some small areas of biotite coarsening. Highly broken up carb from 12.3 to 12.8. Some minor carb blotches. Somewhat of a very weak pale green tinge in areas from epidote? caused by saussuritization.	Fl cut CA ~50%								
						OR232	11.3	12.3		1.022	1.06	
						OR233	16	17		2.005	2.1	



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DIAMOND DRILL LOGS

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Hole No.	Page No.
RG-85-06	4
Claim No.	

Drilling Company	Collar Elevation	Spacing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	n.l.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Options	Date Submitted	Submitted by (Signature)	n.l.				
			n.l.				

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planner Factory Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Ag	Ag	OZ/Km
33.6	46.0	C.A.D. - hematite	as above with weak to moderate hematite alteration Qtz-carb veins @ 25°-30° (1"). Traces of pyrite but overall low sulfide content.	Fl		08237	36.1	37.2		.014	.03	
				50°		08238	41.0	42.0		<.005	.01	
						08239	42.0	43.0		<.005	.01	
						08240	43.0	44.0		<.005	.01	
36.1	37.3	C.A.D. - silicified	as above, silicified and hematite alt.			08241	47.7	48.7		<.005	.01	
						08242	48.7	49.7		<.005	.01	
						08243	49.7	50.7		<.005	.02	
38.4	44.0	C.A.D. → chloritized	as above, fine grained, small Qtz-carb veins.									
47.7	50.7	C.A.D. → chloritized → silicified	as above, fine grained, small Qtz-carb veins parallel to foliation and larger Qtz-carb veins (1") and blotches with silicification present around the vein areas and ~1% disseminated pyrite. Possible sericite in some areas as colour pale, core is softer and slightly greasy.	Fl		08244	50.7	51.4		<.005	<.01	
				50°								
						08249	51.4	52.4		<.005	<.01	
						08250	52.4	53.4		.010	.03	
51.5	51.5	C.A.D. - hematite	as above, small silicified-hematite zone									
53.4	55.15	C.A.D. - silicified - sericitized	as above but with some silicification and sericitation. Pale in colour and soft (scratches w/nail), some minor hematite and carbonate also present. Numerous small Qtz-carb-chl-ser-py veins (1/8" → 1/4") in little swags roughly parallel to foliation. Pyrite is subhedral to euhedral crystals. Some minor epidote present in the veins but not in all sections. A small wed of broken up rock from 55.15 to 55.25.	Fl		08244	53.4	54.4		.010	.03	
				50°		08245	54.4	55.4		.022	.03	
						08246	55.4	56.4		.016	.03	
						08247	56.4	57.4		<.005	<.01	
						08276	57.4	58.4		<.005	<.01	
						08277	58.4	59.4		<.005	<.01	
55.25	62.2	C.A.D. Hematite	as above with minor to moderate amounts of hematite stain (pink → reddish). Sericite and carb. also present. Good strong sulfide zone from 55.4 to 56.0 in the form of small Qtz-carb-chl-ser-py veins (1/8" → 1/2"). Sulfide content over zone would be about 10-15% subhedral to euhedral calc. Veins cut C.A. at 40°-50°. From 56.9-57.4 is a fine grained silicified unit with Qtz-carb-ep-hem veins (2 → 1" 1/4"). Small Qtz-carb veins + blotches + tension gashes found throughout but more prevalent near bottom	Fl		08278	57.4	60.4		.010	.02	
				50°		08279	60.4	61.4		<.005	.02	
						08280	61.4	62.2		<.005	<.01	



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DIAMOND DRILL LOGS

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Note No.	Page No.
RG-85-06	5
Claim No.	

Drilling Company		Collar Elevation	Starting of hole from true North	Total Footage	Dip of Hole at	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.				
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)					
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name					
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Foliation Angle	Core Specimen Footage †	Year Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	g/t/ton
62.2	64.5	MYLONITE	Highly sensitized pale green to reddish (hematite alt ⁿ) with a very fine grained groundmass. Larger pyroxenite fragments are quite stretched out giving foliated texture with "tails" surrounding porphyroclasts. Tails are chl-ser-carb ± ep plus original f [±] -feldspar material - now highly altered. Some of the greener areas (chl-ser-carb-top) have a dark apple green mineral present in minor amounts = Fuschite?? This dark green mineral doesn't form any distinct bands, just as small locally enriched blobs. Pyrite is found as very fine grained disseminations throughout the section, if concentrated along the narrow bands its hard to tell due to the fine grained nature of the pyrite and the narrow bands. Hematite alteration is found in some sections but is not pervasive throughout. Contacts with the C.G.D. above and carbonaceous mafic metavolcanics below are sharp and well defined. Contact with C.G.D. is at 50° and 40° with carbonaceous mafic metavolcanics below.			08281	62.2	63.2		<.005	.02	
						08282	63.2	64.2		<.005	<.01	
				Fol? 90°		08283	64.2	64.5		<.005	<.01	
						08284	64.5	65.5		<.005	.02	
63.3	63.85	MYLONITE	as above but with hematite staining (red) throughout			08285	65.5	66.5		.006	.03	
64.25	64.50	MYLONITE	as above			08286	67.5	68.5		<.005	<.01	
64.50	80.0	CARBONATE-CHLORITE-SHIST (C.C.S.)	Medium to dark green carbonate-chlorite schist with some red hematite areas. Carbonate found as veins, blotches and infilling tension gashes. Two main hematite stained zones									
64.5	66.9	(C.C.S.) hematite	as above			08288	68.5	69.5		<.005	.05	
67.0	73.5	(C.C.S.) hematite	as above									
			Zones of broken up rock (brecciated, faults?) are as follows: 65.2 → 66.5 ; 67.8 → 67.9 ; 68.4 → 68.9 69.1 → 69.5 ; 76.5 → 76.8									
72.1	73.2	LAPILLI TUFF	as above, with large angular hematite stained fragments									

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DIAMOND DRILL LOGS

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Hole No. **RG-85-10** Page No. **04**
Claim No.

Drilling Company		Collar Elevation	Boring of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					Property Name	

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planer Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡		
From	To						From	To		Ag	Hg	oz/ton
50.9	52.90	CHLORITIC	green-red massive silicified cherty rock brecciated into 2-8 cm irregular fragmented by hairline stockwork of sericitic fractures. Some 5% large 30-50° chloritic veins with 1% pyrite stringers. Strong pervasive silification. 60% red hematite pervasive alteration 40% hematite zones are more massive & less brecciated with more chlorite veins			07914	52.0	53.5		<.005	<.01	
						07915	53.5	55.0		<.005		
52.80	52.90	broken core	as above. 80% broken with 5% massive subhedral pyrite on chlorite surface			07916	55.0	56.3		<.005		
						07917	56.3	57.5		.008		
52.90	56.25	cataclasite	green/gray - as above with 70% pervasive chlorite and 20% silification - silicified intercal - more brecciated with hairline sericitic fracture stockwork - small chlorite pyrite stringers - vein at 10-40° ~1% pyrite			07918	57.5	58.5		<.005		
						07919	58.5	59.5		.012		
55.60	55.70	broken core	as above. 80% broken with 5% massive									
56.25	57.40	cataclasite	red massive fine grained siliceous. 80% moderate hematite alteration. 20% pervasive chlorite in matrix and fracture filling veins. 40% brecciation - 5% quartz chlorite pyrite vein at 10-40° 5% subhedral blue quartz phenocryst			07920	59.5	60.5		<.005		
						07853	63.4	65.0		.008		
						07854	65.0	66.0		.014		
57.40	63.40	cataclastic quartz diorite	grey speckled green fine grained granular to massive, 40% silicified and brecciated (stockwork brecciation in silicified zone)			07855	66.0	67.0		.260		
						07856	67.0	68.0		.040		
			20% pervasive chlorite 20% chloritic veins and breccia fill. 2% sericite. 3% disseminated pyrite in stringers with chloritic veins			07857	68.0	69.5		<.005		



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DIAMOND DRILL LOGS

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Hole No. 26-85-10
Page No. 06
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.		Claim No.			
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)					
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name					
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Fracture Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡		
From	To						From	To		Au	Ag	oz/ton
R 76.9	95.6	CATACLASITE -chlorite	as previously described under section from 67.4 to 95.6 metres numerous small qtz-camb tension gashes and stringer veins. Veins @ 20-300. Much of section has a brecciated look and there is a definite increase in chloropyrite as small disseminated blebs. From 93.4 - 95.6 the texture becomes more brecciated and there is an increase in the number of sulfide stringer veins. Veins are qtz-camb-chl-py ± (cpy) and range from 1/4 - 1/2" with 5-10% py in veins.	Veins 30-30°		07863	77.0	78.5		.012	.01	
						07864	78.5	80.0		.006	.02	
						07865	80.0	81.5		1.005	.01	
						07866	81.5	83.0		.022	.03	
						07867	83.0	84.5		1.005	1.01	
						07868	84.5	86.0		.008	.01	
						07869	86.0	87.5		.016	.05	
RR 91.65	92.5	SILICIFIED CAT	as above			07870	87.5	89.0		.090	.04	
						07891	89.0	90.5		1.005	.03	
95.6	114.98	MYLONITE	pale greyish green with brecciated texture. Matrix is fine grained qtz-ser-camb-chl surrounding broken up qtz fragments resulting in a mottled appearance. Small "pods" of broken qtz frags aligned in a rough foliation at 50° to 60° qtz-camb tension gashes present throughout. This section has the most sulfide mineralization found in the DDH. Numerous small 1/4 - 1/2" stringer veins and small stringer vein stockworks as well as some large massive py veins 1-2" thick. Veins consist of qtz-ser-camb-py-chl ± (cpy) with up to 70% pyrite in the veins. Some disseminated pyrite blebs found throughout. The pyrite forms subhedral to euhedral crystals. Zone becomes much more staurolite near bottom of hole and at contact with amphibolite dike. Fol is at ~ 35°. The contact with the zone above is at 40° and also at 40° to the CA with the chlorite schist below.	Fol 50° Veins 60-50°		07872	90.5	92.0		.020	.02	
						07873	92.0	93.0		1.005	.04	
						07874	93.0	94.4		.020	.04	
						07875	94.4	95.5		1.005	.04	
						07876	95.5	96.5m		.014	.06	
						07877	96.5	97.5		1.005	.04	
						07878	97.5	98.5		1.005	.05	
						07879	98.5	99.5		.068	.17	
						07880	99.5	100.5		.092	.08	
						07881	100.5	101.5		.044	.03	
NA 99.32	99.86	SULFIDE ZONE	Silicified with 1 x 2" wide veins and smeers of massive pyrite along with broken up stringer veins. Impure "red" vein	vein 40°		07882	101.5	102.5		.036	.06	
						07883	102.5	103.5		.040	.03	
RR 104.15	104.25	SULFIDE ZONE	as above. vein cuts CA @ 30°	vein 30°		07884	103.5	104.5		.122	.06	

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DIAMOND DRILL LOGS

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Hole No. **AQ-85-10** Page No. **07**

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)			
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					Property Name		

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Features Angles	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Ag	Ag	Oz/Ton
119.98	115.4	biotite lamphyre dyke	dark black massive fine grained with porphyritic biotite and quartz carbonate blebs giving rise to a mottled appearance - one small (4") quartz carbonate sericite vein in middle of dyke trending to SW.			07885	104.5	105.5		.02	.02	
						07886	105.5	106.5		.014	.01	
						07887	106.5	107.5		.010	1.01	
						07888	107.5	108.5		.028	.02	
						07889	108.5	109.5		1.005	1.01	
						07890	109.5	110.5		1.005	.93	
115.4	125.0	chlorite carbonate schist	green white laminated chlorite schist and carbonate - carbonate bands are stretched - boudinaged and detached isoclinal folds in plane of foliation kink bands at 90° SA - 20% hematite alteration of carbonate bands giving reddish colouring			07891	110.5	111.5		.026	.02	
						07892	111.5	112.5		.028	.02	
						07893	112.5	113.5		.017	.02	
						07894	113.5	114.5		.024	.01	
						07895	114.5	114.98		.070	.02	
						07896	116.4	116.4		.018	.02	
	125.0		end of hole			07897	116.4	117.4		1.005	.01	
						07898	120.0	121.0		1.005	1.01	



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DIAMOND DRILL LOGS

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Hole No. RG-85-12 Page No. 1

Drilling Company BRADLEY BROTHERS		Collar Elevation -3.7m	Bearing of hole from true North 210°	Total Footage 119M	Dip of Hole at Collar 45°	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No. S 22151
Date Hole Started Dec 5	Date Completed Dec 6	Date Logged Dec 7	Logged by WESLEY RAVEN	119m @ 40°			Location (Twp., Lot, Con. or Lat. and Long.) 3400 E, 5400 N HAICROW TWP	Property Name SHAFT CLAIMS
Exploration Co., Owner or Optionee REGAL PETROLEUM LTD.		Date Submitted	Submitted by (Signature)	n/				
				n/				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle	Core Section Footage	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	3.7	OVERBURDEN									
3.7	4.35	QUARTZ DIORITE	Grey medium grained equigranular chloritic Qtz diorite. With hard lens that is lots of fracturing of the quartz grains with Qtz-carb-chl filling in the fractures. One str-cub-1m vein - 1/4" cutting C.A. @ ~35°. Approx 3% dissem or throughout. Broken core at contact to nature of contact unknown.	vein							
4.35	13.0	MAFIC VOLCANICS	Medium green massive aphanitic mafic volcanic flow? Poorly defined bedding gives rise to lots of small column variations giving a mottled looking appearance, but overall looks fairly homogeneous. Some small Qtz-carb veins (hlc - 1/8") at 40° and 60° to CA. Qtz-carb-chl-py veins (hlc - 1/8") at ~40° to C.A. with ~5-10% pyrite in veins. Approx 2% dissem py in first 1.25m then drops off to very minor amounts for rest of section. One small hematite vein @ 30° (1/8") @ 6.1m. Small amounts of limonite staining on fractures in areas of broken up core from 10.2-10.5 and 11.4-11.65	vein							
13.0	17.47	QUARTZ DIORITE	as above but with a pinkish tinge from hematite alteration. Not as much chlorite as above section. Contact with mafic volcanics above is somewhat gradational but ~50°. Contact with mafic volcanics below is along Qtz-carb-chl vein of 50° and a few Qtz-carb-chl-py veins (hlc - 1/8") at 20-30° to CA.	contact							
17.47	34.72	MAFIC VOLCANICS	as above, small segregate zone from 29.8 to 30.25. Some Qtz-carb veins rather throughout but not abundant. Qtz-carb, Qtz-carb-chl and Qtz-carb-chl-py all cutting core axis at about 40-50°. The sulfide veins contain about 5-10% pyrite in amphibole to subhedral.	vein							
34.72	38.75	QUARTZ DIORITE	as above chloritic, upper contact brecciated. Lower contact ~60° to CA.	contact							
38.75	32.05	QUARTZ DIORITE	as above, upper contact gradational also gradational but weakly defined at ~50° to CA. 2-3% dissem py with some minor chlorite present.	contact							

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DIAMOND DRILL LOGS

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Note No. **RG-85-12** Page No. **3**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		ft		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)		ft				
				ft	Property Name				

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	oz/ton
46.4	65.6	CATACLASITE	Pale greenish-grey with reddish zones due to hematite alteration. Fine grained Qtz-csb-chl-carb matrix surrounding subangular porphyritic quartz grains (and some porphyritic carb. grains). These porphyroclasts are up to several mm in diameter, appear quite fractured internally, recrystallized, & have a poikilitic texture. These porphyroclasts constitute from 5-20% of the total volume, and give rise to a mottled (poko-dot) appearance. Cherty breccia clasts exist throughout with clasts up to 1.5cm long & 1cm wide. The Qtz porphyroclasts are found within these cherty clasts as well as in the matrix. Some areas have concentrated "pods" of cherty breccia clasts with Qtz porphyroclasts (porphyroclasts have poikilitic texture) and these areas themselves may be a large clast or fragment. The matrix material is found around the edges of the cherty breccia clasts - as are small Qtz carb arsenian gashes, and often small blebs of pyrite are present in the matrix material cementing the clasts. A weak foliation of ~ 50° to GA. (foliation & banding). Qtz-csb veins are numerous - cut GA. @ ~ 50-60°. Qtz-csb-chl-py veins are common and range from ~ 1/8" to 1/4" wide with ~ 5-50% py as subhedral to euhedral crystals. Some minor chalcopyrite blebs are present with the pyrite but not in all the sulfide bearing veins. Sulfide veins cut GA. at hematitic sections from: 48.2-50.3; 55.7-56.35 and 59.55-60.25. Areas of broken up core @ 61.25-61.45			07930	51.5	53.0		.006	2.01	
				50°		07931	55.8	57.0		.006	.02	
						07932	59.5	61.0		2.005	.03	
						07933	61	62.5		2.005	2.01	
						07936	62.5	64.0		.008	.02	
						07937	64.0	65.5		.010	2.01	

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DIAMOND DRILL LOGS

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Hole No. **RG-85-12** Page No. **4**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp, Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		AU	Ag	oz/tw
65.6	79.15	CATACLASTIC QUARTZ DIORITE	mottled, red/green/grayish green fine grained massive, quartz-feldspathic rock with 25-35% 1-3 mm porphyritic Qtz grains giving a "polka-dot" appearance. Some of the Qtz grains show partial to complete chalky white rims encircling them. Some areas of cherty breccia frags - generally look like grains with a less well defined "polka-dot" appearance. Areas of different alteration give rise to different colors. Qtz-carb veins @ 30°-50° dk → lg, Qtz-carb-chl veins are not very common and @ 40°-50°. Very little sulfides present in section. Weak silification @ 50°									
						07938	72.5	74.0		<.005	.02	
						07939	72.0	76.5		<.005	<.01	
						07940	76.5	77.0		<.005	<.01	
						07941	77.0	78.5		<.005	.01	
						07942	78.5	80.0		.006	.07	
R 72.4	76.9	CQD	as above but reddish green due to hematite and chlorite alteration. Somewhat more siliceous with less porphyritic quartz grains - here a proper "polka-dot" appearance. Chlorite is found as veins and "blotches" throughout section. Chl veins @ 40°. Section has ~ 20% more silicification, and 15% hematite, 15% chlorite.									
						07943	80.0	81.5		.010	<.01	
79.35	101.7	CATACLASITE	mottled green-gray to medium green brecciated chlorite. The contact with the unit above is quite gradational. The brecciated chloritic quartzite itself becomes more brecciated as one progresses downward through the unit. The matrix is fine grained Qtz-ser-chl-carb with porphyritic Qtz porphyroblasts (1-2mm) that are surrounded by subangular many with little tails around them and some appear rotated. Large cherty looking clasts 1-2cm long, 1cm wide are cemented together by matrix material. The Qtz porphyroblasts are found in the matrix and in the cherty clasts and comprise up to 15% of the total volume. Numerous Qtz-carb tension gashes throughout section, Qtz-carb veins @ 50°-60° to CA. Qtz-carb-chl veins also 50°-60° with some at shallow angle of 20-30°. Veins range from small like 1" thick. Qtz-carb-chl-py ± (cpy) veins @ 50° to CA with 5-50% py (and some with traces of cpy) as subhedral to euhedral crystals some elongated parallel throughout (10%).									
						07944	81.5	82.0		.014	.03	
						07945	83.0	84.5		.016	.04	
						07946	84.5	86.0		.010	.01	
						07947	86.0	87.5		<.005	.03	
						07948	87.5	89.0		.006	.07	
						07949	89.0	90.5		<.005	.01	
						07950	90.5	92.0		<.005	<.01	

† Definite increase in the quantity of veins at the bottom of the section

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DIAMOND DRILL LOGS

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Hole No. **8G-8513** Page No. **03**
Claim No.

Drilling Company		Collar Elevation	Heading of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started	Date Completed	Date Logged	Logged by		Pl.		Location (Twp., Lot, Con. or Lat. and Long.)
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Pl.		
					Pl.		
							Property Name

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡		
From	To						From	To		Au	Ag	oz/tm
36.60	38.60	Cataclastite	chlorite veins at 30° of tension gashes - ~5% pyrite most concentrated between 36.30 to 38.00m in silicified brecciated as 30° veins and a massive 25cm band from 36-38 silicified brecciated chert 2-4m, fragmented with sericite stockwork - 10% blue quartz phenocryst - some crystals are fractured - 10% pervasive patches of chlorite 1% pyrite disseminated in small quartz chlorite veins at 30°			09399	35.4	36.0		.166		.30
						09300	36.0	37.0		2.005		.06
						4451	37.0	38.5		.026		.01
						4452	40.3	41.5		.018		.01
						4454	43.0	44.5		2.005		2.01
38.60	40.75	quartz diorite	green mottled pink medium to fine grained granular quartz feldspar and 40% chloritic matrix, moderate to strongly brecciated with sericitic veining at 70° and crosscutting at 60° - 1% pyrite in quartz veins - broken core at 40.75 - 40.80			4467	44.5	45.5		2.005		2.01
						4468	46.5	46.5		2.005		2.01
						4469	46.5	47.5		2.005		2.01
40.75	41.60	Cataclastite	green mottled pink as above with pervasive chlorite brecciation - fine sericitic stockwork fracture 10% strong silicification 41.20m to 41.70 - siliceous tension gash at 30° - 1% disseminated pyrite stringers - ~44 - 44.30 massive chloritized quartz diorite as above - contacts are marked by chlorite			4470	47.5	48.5		2.005		1.01
						4471	48.5	49.5		2.005		2.01
41.60	40.60	cataclastite quartz diorite	reddish brecciated medium grained quartz diorite - strong pervasive hematite - silica chlorite alteration stockwork of sericitic fractures at 60° CA - silica carbonate tension gash at 20° - 1% pyrite	60° 55°		4472	49.5	50.5		2.005		2.01
						4473	50.5	51.5		2.005		2.01

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DIAMOND DRILL LOGS

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Hole No. **RG-85-07** Page No. **01**
 Claim No. **S 22/46**

Drilling Company BAIRDNEY BAGS.	Collar Elevation 0m	Bearing of hole from true North 210°	Total Footage 65m.	Dip of Hole at collar 45°	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started Nov. 26/85	Date Completed Nov. 27/85	Date Logged Nov. 28	Logged by J. Dumouchel	65m @ 42		Location (Twp., Lot, Con. or Lat. and Long.) 10100W; 4106N HALCAOW TWP
Exploration Co., Owner or Optionee Regal Petroleum	Date Submitted	Submitted by (Signature)		Property Name SHAFF CLAIMS		

Footage From	Footage To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
							From	To		Au	Ag	oz/ton
0	3.7	overburden										
3.7	20.	quartz diorite	grey fine to coarse grained - generally trending fine darkhole with a gradablastic, porphyroblastic texture - in some of ore to 2 metres but gradually more pronounced down section - alteration zone of pervasive silification - hematite - silica - carbonate chloritization also alternate on 2 metre frequency between altered and non altered zones 5% quartz and quartz-carbonate veins at 30°-40° SA, 1% quartz-hematite veins & 1% disseminated and banded pyrite in quartz-chlorite bands									
20	27	quartz diorite	weathered zone with strong limonite alteration									
27	30	quartz diorite	silicified zone - 5% 30° silica & quartz hematite vein and 2% massive calcopyrite - tension gash at 8cm - brecciate with 5% pyrite matrix fill seams at 9.0-9.2m - 40% chlorite - pervasive and disseminated 60° SA chlorite quartz carbonate bands - quartz pyrite vein 2cm wide - disseminated pyrite in surrounding diorite - also 1%			09401	7.3	8.0	1020	102		
30	15.42	quartz vein	chlorite quartz carbonate bands - quartz pyrite vein 2cm wide - disseminated pyrite in surrounding diorite - also 1%			09402	8.0	8.9	1028	101		
15.42	16.0					09403	15.0	16.0	1005	101		
16.0	17.0					09404	16.0	17.0	1005	101		
17.0	17.88	quartz diorite	moderate quartz hematite alteration - 5-14% quartz carbonate vein at 30°			09405	17.5	19.0	1005	101		
17.88	19.0	quartz diorite	silicified zone - 1% quartz carbonate pyrite vein 20° and 1% quartz hematite vein at 30° - siliceous tension gash at 0° - 30°			09406	19.0	20.0	1005	102		

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DIAMOND DRILL LOGS

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Hole No. RG 85-07 Page No. 02
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Location (Twp., Lot, Con. or Lat. and Long.)
Date Hole Started	Date Completed	Date Logged	Logged by					
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					Property Name

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle	Core Specimen Footage	Year Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		AN	Ag	oz/ton
1960	2000	quartz diorite	40% pervasive quartz carbonate alteration - 1% quartz vein at 0-5° slightly brecciated			09407	200	210		<.005	<.01	
2020	2040	quartz diorite	60% strong pervasive quartz carbonate hematite alteration quartz hematite veinlet at 25° - 1% stockwork of quartz veinlet at 0°									
2200	2230	quartz diorite	coarse reddish grey granoblastic texture with 10% hematite vein at 20° and pervasive hematite alteration, 2% chlorite vein at 45°	61		09408	220	230		<.005	.02	
2225	2245	biotite lamprophyre	5% quartz vein at 20° CA and along contact			09409	240	270		.012	.02	
2820	2920	quartz diorite	80% strong pervasive silification and weak carbonate hematite alteration - quartz vein breccia 5cm wide at 30° - 2% hairline silica fill fracture at 30°			09410	286	296		<.005	<.01	
						09411	308	318		<.005	<.01	
3000	4410	Cataclastic quartz diorite	grey fine to medium grained feldspar quartz chlorite-foliated with a porphyroblastic granoblastic texture - pervasive carbonate 20% in bands and also in veinlets and detached bands at 10° and 60° - 5% quartz vein 1:1 cm wide at 35°			09412	318	328		<.005	<.01	
						09413	328	338		.010	<.01	
						09414	338	348		.010	<.01	
						09415	348	358		<.005	.02	
2140	3415	Cataclastic quartz diorite	70% moderate to strong pervasive silification quartz hematite vein 2cm wide at 38.8m 35° with moderate pervasive hematite in surrounding rock, brecciated stockwork of mica fractures at 0-5° & 45° 1% disseminated pyrite in small seams 4.1m - 45° - 25° quartz veinlet on cross fracture	61.68		09416	368	368		.008	.02	
						09417	368	378		<.005	.03	
						09418	378	388		<.005	.01	
						09419	388	398		<.005	.01	
						09420	398	408		<.005	<.01	

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DIAMOND DRILL LOGS

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Hole No. **AG-85-07** Page No. **03**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Angle	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	oz/ton
44.10	45.0	cataclysite quartz diorite	40% moderate to strong pervasive silification, quartz moderately brecciated stockwork of micro fractures silica filled at 60° + 10° quartz hematite veins at 20° chlorite veins at 50° along foliated plane - 1% pyrite stringers along chlorite vein	folia		09421	40.8	41.8	2.005	2.01		
						09422	41.8	42.8	2.005	2.01		
						09423	42.8	43.8	2.005	2.02		
						09424	43.8	45.2	2.005	2.01		
						09425	45.2	46.2	2.010	2.03		
45.0	49.25	cataclysite quartz diorite	red grey medium to coarse grained porphyroblastic strongly deformed feldspar porphyroblast with quartz pressure shadow, isoclinal micro folds, moderate hematite and chlorite alteration, banded mylonite intervals at 20cm thick & defined by 40° chlorite bands and fine grained hematized feldspar bands - 5% quartz veins at 40° + 5% filling a -10° tension gash - 11 to foliation - 5% pyrite as euhedral crystals in stringers and patches - chlorite bands and in quartz vein	folia		09426	46.2	47.4	2.005	2.03		
						09427	47.4	48.4	2.005	2.03		
						09428	48.4	49.5	2.005	2.01		
						09429	49.5	50.52	2.006	2.01		
						09430	50.52	51.5	2.005	2.01		
						09431	51.5	52.5	2.005	2.03		
						09432	52.5	53.5	2.014	2.01		
49.25	49.66	mylonite	light grey rock transitional from above consisting of stretched porphyroclasts forming detached bands and fragments in a pale green aphanitic sericite matrix containing 1% green fuchsite and 5% dark green chlorite veins - 1% disseminated pyrite in matrix where contact sharp colour change - lower contact sharp colour texture change									
49.66	55.90	chlorite carbonate schist	dark green banded laminated chlorite 60% carbonates - 30% hematite pervasive carbonates 5-10% Top 1" meter silicified bleached aphanitic sericite, trace fuchsite carbonates bands in broken fragments, handpiece pink band at 60" isochand fold - 2% disseminated pyrite - core 50% broken - carbonates hematite breccia at 52.70 + 55.0m	folia 70°								



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DIAMOND DRILL LOGS

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Hole No.	RG-85-08	Page No.	1
Claim No.	S 22151		
Location (Twp., Lot, Con. or Lat. and Long.)			
0+37 W 3+39 N			
Property Name			
SHAF T CLAIMS			

Drilling Company BRADLEY BROTHERS		Collar Elevation 0 m	Bearing of hole from true North 215°	Total Footage 137 M	Dip of Hole at Collar 65°	Location of hole in relation to a fixed point on the claim.	Map Reference No.
Date Hole Started Nov. 27/85	Date Completed Nov. 29/85	Date Logged NOV 30	Logged by WESLEY RAVEN	137 m @ 64			Location (Twp., Lot, Con. or Lat. and Long.) 0+37 W 3+39 N HALCROW TWP
Exploration Co., Owner or Optionee REGAL PETROLEUM LTD.		Date Submitted	Submitted by (Signature)	n/			
				n/			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays ‡		
From	To						From	To		Au	Ag	oz/ton
0	3.7	overburden										
3.7	10.35	Cataclastite	fine grained massive and generally pale greenish grey. Sarcen., massive and textureless though some areas are distinctly brecciated. Very sericitic throughout and weakly carbonaceous as well. Numerous small veins of a dark chl-py and just fine grained pyrite (± ser. ± cp) in the matrix as well as some gte-carb-py (± ser). Some areas have strong cross-fracture patterns resulting in an overall brecciated looking rock that may or may not be a "true breccia".			07471	4.0	5.6		<.005	<.01	
10.35	13.7	CAT	as above but with 30% broken core and limonite staining throughout section, gte-carb-ser-lim veins @ 25° approx 40% of core section lost while transporting from drill disseminated pyrite up to 1% throughout.	veins 25°		07472	8.0	10.2		<.005	<.01	
13.7	11.1	CAT	as above with numerous cross fractures and gte-carb tension gashes. Small (1/2") veins heavily limonite stained. Approx 30% core lost in transport			07473	10.8	12.2		.028	.04	
11.1	13.35	CAT	as above. Carbonaceous with small (hlc-1/20) dark chl/mang. py veins at 70-80° to CA with 1-3% subhedral to euhedral pyrite crystals. Some minor disseminated pyrite present as well. Minor limonite present on some fracture surfaces.	veins 70-80°		07474	12.2	13.7		<.005	<.01	
13.35	21.65	CAT	as above, brecciated texture looks to be in part to cross-fracture pattern though some areas show quartz porphyroclasts surrounded by fibrous looking chl-ser. The porphyroclasts are medium grained as are some splashes of dark grey chlorite. Contains slightly more chlorite than average quartzite as colour is somewhat greener. Pyrite is found as fine grained disseminations throughout, no definite vein structures visible. Some subhedral to euhedral crystals, 1-3% over section. Ser-carb tension gashes 3-5%	veins 40°		07475	13.7	15.2		<.005	.01	
						07476	15.2	16.5		<.005	.01	
						07477	16.5	18.0		.006	<.01	
						07478	18.0	19.5		<.005	<.01	
						07479	19.5	21.0		.006	.01	
						07480	21.0	22.5		.008	.02	



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DIAMOND DRILL LOGS

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Note No. R6-85-08
Page No. 2
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)			
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					Property Name		

Footage From	Footage To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
							From	To		Au	Ag
R 21.65	36.1	CAT	as above with mottled texture caused by Qtz porphyroblasts (easily visible with hand lens). Generally fine grained and massive, and fairly hard with pale greenish-grey colour. Numerous small (hlc - 1/8") dark green-black chl/manganese? - py - Qtz veins with minor disseminated pyrite around edges of veins. These cut number the Qtz-carb-py veins nearly 10:1 in the top of the sections with the Qtz-carb-py veins (hlc - 1/2") becoming much more prevalent near the bottom of the section. The veins cut C.A. at 20° - 50° with 30° & 40° the most common. Section overall appears somewhat silicified and carbonatized.	veins 30°-40°		07481	22.5	24.0		<.005	<.01
						07482	24.0	25.0		.020	.02
						07483	25.5	27.0		.010	.02
						07484	27.0	28.5		<.005	.01
						07485	28.5	30.0		<.005	.01
						07486	30.0	31.5		<.005	.03
						07487	31.5	33.0		.07	.04
						07488	33.0	34.5		.03	.03
						07489	34.5	36.0		.006	.03
						07490	36.0	37.5		.018	.04
RA 23.4	24.4	chloritic CAT	as above								
RA 25.5	35.7	Fault or Shear zone	Faults? Broken up core.			07491	37.5	39.0		.006	.03
RA 26.6	26.8	Fault or Shear zone	Faults? Broken up core.								
R 36.1	40.85	CHLORITIC CAT	as above with cross-fracture "mottled" or blotchy texture. Some fractures are Qtz-carb at ~30-50° to C.A. Tension gashes are also Qtz-carb. Small Qtz-carb-chl-py veins (hlc - 1/20") with moderate amount of fine grained subhedral to euhedral py crystals. 1-2% disseminated pyrite throughout. Contact with ill. silicified quartzite below is quite sharp and along a hlc Qtz-carb-chl-py vein.	fracture 30-50° veins 30-50°		07492	39.0	40.5		.024	<.01
						07493	40.5	41.5		.006	.03
						07494	41.5	42.5		.018	.05
						07495	42.5	44.0		<.005	.01
						07496	44.0	45.5		.008	.05
RA 40.85	44.0	CAT	as above, silicified & carbonatized. Numerous small (hlc - 1/10") Qtz-carb-py veins especially from 41 - 42.3 M where there are 20-30 veins/metre. Veins cut C.A. at 35° - 50° with some at steeper angles (60-65°). Some shallow angle Qtz-carb tension gashes.	veins 35-50°		07497	45.5	47.0		<.005	<.01
						07498	47.0	48.5		.04	.02



OreQuest Consultants Ltd.

DIAMOND DRILL LOGS

Fill in on every page

Hole No. RG-85-08
Page No. 3

Drilling Company		Collar Elevation	Heading of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		n.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)					
				n.				
				n.	Property Name			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Angle	Core Specimen Footage ?	Year Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	oz/ton
44.0	65.9	CAT -chloritized -silicified -carbonatized	as above, with various types of alteration throughout. No really distinct differences throughout section, i.e. a very gradational variation. Some fine grained areas though most have a mottled texture in gtz-carb-chl-ser matrix. Small colour is gray green - chloritized zones are greenish white silicified zones are pale. Small gtz-carb veins (hls - 1/8") mostly at 40-50° to C.A. Qtz-carb tension gashes and splashes are also present. Mineralization is small hls gtz-carb-chl-ser-py veins with 5-10% pyrite in the little veins. Disseminated pyrite is present generally throughout - 2% Examination with a hand lens reveals a mosaic texture of porphyritic (at least porphyritic relative to matrix) gtz set in the finer grained matrix. One gtz-carb-ser-py vein (1/2") at 50M with brecciated gtz frags within a finer grained gtz-carb-ser matrix with some limonite staining									
						07499	48.5	50.0		.024	.03	
				Veins		07500	50.0	51.5		.028	.01	
				30°-30°		07501	51.5	53.0		.020	.03	
						07502	53.0	54.5		.064	.01	
						07503	54.5	56.0		.038	.04	
						07504	56.0	57.5		.040	.05	
						07505	57.5	59.0		.070	.02	
						07506	59.0	60.5		.072	.04	
65.9	104.35	CAT -chloritized -silicified	as above but with fairly well developed brecciated/mosaic texture. Consists of subrounded to angular porphyritic gtz grains set in fine grained gtz-carb-chl-ser. matrix that infills the boundaries between the larger gtz grains. Colour is pale greenish gray with chloritic and silicified areas. Generally quite massive looking but some areas have "pods" of chloritic gtz aligned in an apparent foliation direction. This foliation sets C.A. at 30°-35°. Small gtz-carb veins and tension vesicles throughout. Some of the tension gashes also are pyrite-gtz-carb infilled in middle of sections. There are two main vein trends, gtz-carb at shallow angles to core axis - 5°-20° and from hls widths to 1/8". Some of these shallow angle veins also contain py though this is not so common in the upper part of the section. Most mineralized veins are gtz-carb-chl-ser-py (hls - 1/8") at angles of 30°-40° to C.A. These veins contain 5-10% pyrite. Disseminated pyrite is found throughout the section up to 2%. Crystals are subhedral to euhedral.	Veins		07507	60.5	62.0		.010	.06	
				30°-40°		07508	62.0	63.5		.018	.04	
						07509	63.5	65.0		.042	.04	
				fol.		07510	65.0	66.5		.018	.04	
				30°-35°		07511	66.5	68.0		.014	.03	
						07512	68.0	69.5		.030	.03	
				Veins		07513	69.5	71.0		.016	.03	
				5°-20°		07514	71.0	72.5		<.005	.01	
						07515	73.0	74.5		.012	.03	
						07516	74.5	76.0		.010	.07	
						07517	76.0	77.5		.014	1.01	



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DIAMOND DRILL LOGS

Fill in on every page
 Hole No. RG-85-08
 Page No. 4

Drilling Company		Collar Elevation	Spacing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.				
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)					
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name					
Footage From	To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Placer Footage Angle	Core Specimen Footage	Your Sample No.	Sample Footage From	To	Sample Length	Assays †		
										Au	Ag	Oz/Ton
Continued	from page 3		Near the bottom of the section the zone has a more well developed foliation which is shallower than that at the top and cuts the C.A. at 5-15°. Colour is pale greenish-grey, then a greenish white sericitic zone to contact with ser-chl-carbonate schist repeat unit within zone (inf. vein) then more of a bluish-green at the bottom of the zone to the contact with the Chlorite Schist (mafic volcanics). Sulfide veins are Qtz-ser-carb-chl-py with 5-10% py at angles parallel to foliation. From below the contact with the small zone of altered mafic volc. there are 1/2" dark green veins of chl/manganese? like those observed in the upper portion of the section.	fol. 5-15°		07518	77.5	78.5		.018	.01	
						07519	78.5	79.5		.008	.02	
						07520	79.5	80.5		.022	.02	
						07521	80.5	81.5		.070	.04	
					Veins	07522	81.5	83.0		.078	.04	
					5-15°	07523	83.0	84.5		.032	.04	
						07524	84.5	86.0		.046	.03	
						07525	86.0	87.5		.032	.03	
RA 72.5	73.0	BIOTITE LAMPROPHIRE DIKE	Fine grained, massive, with porphyritic biotite and chloritized spiky Qtz grains giving rise to a mottled appearance. Contact is sharp and cuts C.A. at 30°			07826	87.5	89.0		.028	.05	
						07827	89.0	90.5		.012	.01	
						07828	90.5	92.0		.078	.05	
						07829	92.0	93.5		.054	.04	
RA 98.8	100.3	MYLONITE	Small zone of very sericitic and chloritic altered mafic volcanics consisting of chl-carb-ser + ep as matrix material and well defined bands. Small carbonate-Qtz lenses patches also present. Some minor disseminated pyrite throughout (<1%). Contacts with the zone both above and below are quite sharp at cut C.A. @ 20°. Bottom contact has small amounts of broken up sericitic core.	Contact		07830	93.5	95.0		.024	.02	
						07831	95.0	96.5		.046	.02	
						07832	96.5	98.0		.090	.01	
					20°	07833	98.0	98.8		1.32	.03	
						07834	98.8	100.3		1.028	.03	
						07835	100.3	101.8		.020	.03	
						07836	101.8	103.3		.024	.05	
						07837	103.3	104.35		.076	.04	
104.35	137.0	CHLORITE SCHIST	Pale green to dark greenish black, well foliated in upper 1/3 (due to Qtz-carb-bands) to massive & fine grained for lower 2/3. From 104.35 to 118.60 section contains about 25-30% Carbonate bands at 25-35° to core axis. Weak to moderate hematite alteration is also present. Small kink bands at ~5-10° to C.A. in upper part of section. From 118.60 to 137 the section is quite massive looking though chlorite enriched bands give a fol. of a 20°. Some minor hematite alteration around Qtz-carb veins but not prevalent throughout the section. Qtz-carb small veins mostly at 20-30° though some shallower angle veins @ 5-10° and 2 (3/4-1") large Qtz veins w/ hematite and one blob of cpy in the lower vein at 126.5m. Some ep staining at bottom of hole. END OF HOLE	Fol 20-35°		07838	104.35	105.35		6.005	.01	
						07839	105.35	106.35		6.005	.01	
					Fol							
					20°							

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DIAMOND DRILL LOGS

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Hole No. **RG-95-09** Page No. **01**

Drilling Company BRADLEY BROS		Collar Elevation 0 M	Bearing of hole from true North 215°	Total Footage 54m	Dip of Hole at Collar 45°	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No. S 22151
Date Hole Started Nov 29	Date Completed Nov 30	Date Logged Dec 01	Logged by J. DUNOCHER				Location (Twp., Lot, Con. or Lat. and Long.) 0+37W; 3+39N HALCROW TWP	Property Name SMART CLAIMS
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					
REGAL PETROLEUM LTD								

Footage From	Footage To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage	Your Sample No.	Sample Footage		Sample Length	Assays †		
							From	To		Au	Ag	02/64
0	3.7	OVERBURDEN										
3.7	29.90	CATACLASITE	grey massive "obert" silicified and crosscut by faultline sericite fill fractures at 60° forming a mosaic of mactar texture. 2% dark chlorite, min. 0.2mm thick at 30°, associated with 1% quartz vein and 1% pyrite stringers, overall massive texture, prevail and brecciated pervasive iron carbonate ~20% and chlorite. 20% is variable through interval - no preferred fabric direction.			09433	9.0	10.0		.032	.01	
						09434	10.0	11.0		.014	.07	
	4.0	9.0	CATACLASITE	rusty limonite weathering 30% core, moderately broken		09435	11.0	12.0		.016	1.01	
	10.90	~20.00	CATACLASITE CHLORITIC	grey green as above with 40% pervasive chlorite patches and bands in an aphanitic sericite carbonate matrix with 20% small anhedral (1mm) quartz crystal guling a peppery texture		09436	12.0	13.0		2.005	1.01	
						09437	13.0	14.0		2.005	1.01	
						09438	14.0	15.0		.039	.03	
						09439	15.0	16.0		2.005	.04	
						09440	16.0	17.0		2.005	.02	
						09441	17.0	18.0		2.005	.03	
						09442	18.0	19.0		2.005	.03	
	20.00	29.80	CATACLASITE CARBONACEOUS	blue grey - weathered carbonate ~ 40% pervasive chloritic vein and fracture fill. 2% pyrite in stringers and patches		09443	19.0	20.0		2.005	1.01	
						09444	20.0	21.0		.022	.04	
						09445	21.0	22.0		.024	.03	
	22.60	32.80	QUARTZ SUNDRIE	CATACLASITE with stockwork stringer vein of pyrite 10% and calcopyrite 5% vein at 30-40° with chlorite		09446	22.0	23.0		.046	.09	
						09447	23.0	24.0		.028	.04	
						09448	24.0	25.0		.020	.04	

OREQUEST



DIAMOND DRILL LOGS

Fill in on
every page

Hole No.
RG. 85-13

Page No.
06

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.				
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)					
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)				Property Name					
Footage From	To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Plan: Failure Angle	Core Specimen Footage	Your Sample No.	Sample Footage From	To	Sample Length	Assays † Au Ag g/t Cu		
A 90.5	99.15	cataclasite	beige mottled green brecciated .5cm chert fragments in carbonate sericite hairline fracture stockwork Carbonate veins at 60° CA, tension gash at 0-30° -10% ankrite vein at 0-10° 20% pervasive chlorite -20% small quartz porphyroblasts, 1% disseminated pyrite and stringers in dark chlorite vein at 50°			4365	90.5	91.5		2.005	2.01	
						4366	91.5	93.0		2.005	2.01	
						4367	93.0	94.0		2.005	2.01	
						4368	94.0	95.0		2.005	2.01	
						4369	95.0	96.0		2.005	2.01	
						4370	96.0	97.0		2.016	2.01	
99.20	107.70	Cataclasite	green massive finely grained chloritic siliceous rock with carbonate sericite matrix 30% and 20-30% bluish quartz porphyroblasts some of which are fragmented - 30% of interval sericitic with brecciated chert and/or chloritic chert fragments 2-.5cm - banded texture at 50° - carbonate fill tension gash at 30° and patches 10% 1% pyrite stringers with chloritic vein			4371	97.0	98.0		2.005	2.01	
						4372	98.0	99.20		2.005	2.01	
						4373	99.2	100.5		2.005	2.01	
						4374	100.5	102		2.005	2.01	
						4375	102.0	103.5		2.005	2.01	
						4376	103.5	105.0		.010	2.01	
107.70	109.40	Cataclasite	beige brecciated chert 3-.5cm in stockwork mosaic sericitic matrix with 10% quartz porphyroblast, 2% pyrite in chloritic stringers at 50° - moderate pervasive silification at 107.70 - 107.90			4377	105.0	106.5		2.005	.02	
						4378	106.5	107.5		.010	2.01	
						4379	107.5	108.7		2.005	.03	
						4380	108.7	109.4		.018	.01	
						4381	109.4	110.5		.010	.02	
109.40	116.00	chlorite carbonate schist	dark green laminated chlorite intercalated with carbonate bands - first 20cm bleached with strong pervasive sericitic alteration - few metre strong hematite alteration of carbonate bands - core quite broken with gauge at 114.0 metres - bands are quite stretched and dislocated with quartz porphyroblastic carbonate vein end of hole			4382	110.5	111.5		2.005	2.01	

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DIAMOND DRILL LOGS

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Hole No. **AG-85-14** Page No. **02**
Claim No.

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Options		Date Submitted	Submitted by (Signature)					
								Property Name

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle †	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	oz/ton
16.70	17.55	biotite lampophyre	black lampophyre 60% intruding highly brecciated wall rock - silica hematite veining and fill; blue gray gouge as above, lower contact - 40°									
26.00	31.50	cataclasite	mottled green pink fine grained siliceous - similar to above - moderately brecciated with sericitic veins at 40° and 10% quartz tension gash and quartz carbonate chlorite veins at 2-30° - 30% pervasive chlorite in patches, 20% small quartz - phenocryst and porphyroblast - 20% hematite mostly in last 1.5m with quartz carbonate vein			04372 04373 04374 04375	26.0 27.0 28.5 30.0	27.0 28.5 30.0 31.5	2.005 2.005 2.005 2.005	.03 .01 2.01 2.01		
31.50	41.70	chloritic cataclasite	green fine grained granular pervasive chlorite; 20% sericitic - 20% small quartz porphyroblasts 5% irregular carbonate veins and 10% pervasive carbonate, 10% silicified brecciated chert, 1% pyrite mostly as stringers in siliceous zone			04376 04377 04378 04379	34.0 36.0 36.9 38.0	35.0 36.9 38.0 39.0	2.005 2.005 2.006 2.004	.02 .01 .02 .03		
41.70	54.10	blastomylonite	large mottled green similar rock to previous interval with increased deformation - fine grained + siliceous - foliated with sericitic matrix and 20% - 14.2m. quartz porphyrocy - 30% fine grained + 5% pervasive chlorite in 10% siliceous chert breccia - 5% quartz chlorite bands at 50-60° containing 2% pyrite stringers			04400 02201 02202 02203 02204 02205 02206	41.7 45.0 46.0 48.0 49.0 50.0 51.0	42.7 46.0 47.0 49.0 50.0 51.0 52.0	2.005 2.005 2.005 .068 .014 .018 .017	2.01 .02 2.01 .06 .03 .01 .04		
43.10	43.10	lampophyre				02207 02208 02209 02210 02211	54.7 56.0 57.0 57.9 58.0	56.0 57.0 58.0 59.0 60.0	2.005 .008 .010 2.005 2.005	2.01 .04 .02 2.01 .01		

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DIAMOND DRILL LOGS

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Note No. AG-86-14 Page No. 03

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name	

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To		Au	Ag	gz/ton
54.70	73.50	congl'd	bands, 2mm thick at 2-5cm intervals, usually with pyrite stringers 3% at 60° - ~20% small 1-2mm quartz porphyroblast			02212	60.0	61.0		<.005	.03	
						02213	61.0	62.0		.014	.04	
						02214	63.0	63.0		.016	.03	
						02215	63.0	64.4		.024	.05	
64.40	66.40	chloritic mylonite	mottled green massive fine grained to aphanitic chlorite and carbonate with 10% small quartz porphyry, 20% brecciated chert, 1% pyrite stringers - 5% quartz carbonate vein - 70-80°			02216	64.4	65.5		.020	.04	
						02217	65.5	66.7		.010	.02	
						02218	66.7	68.0		.018	.05	
						02219	68.0	69.0		.024	.03	
67.80	73.00	lampophyre	light grey bleached - fine grained lampophyre - folded in axis of core cutting through quartz vein along contact with massive pyrite and massive pyrite on inside on inside crest of fold			02220	69.0	70.0		.010	.02	
						02221	70.0	71.0		.006	.02	
						02222	71.0	72.0		.010	<.01	
						02223	72.0	73.0		.066	.06	
73.65	74.85	lampophyre	black fine grained with small 30% feldspar phenocrysts contact at 40°			02224	73.0	74.5		<.005	.04	
74.90	77.60	mylonite	increasing silicification and brecciation to 60° and increased calcitic veining still at 60° with halite streaks - fracturing			02225	74.8	76.0		.016	.03	
						02226	76.0	77.0		<.005	.02	
77.00	77.10	quartz vein	cutting at 20° with 5% pyrite patches and stringers in wall rock									
77.60	77.90	mylonite	light green - finely banded quartz feldspar with 30% interstitial feldspar - Sericite - 6-10% finely disseminated pyrite - sharp contact irregular with chlorite schist at 45°			02227	77.10	77.90		.038	.05	

APPENDIX E
ASSAY REPORTS - DRILLING



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

DDH 1, 2, 3, 4

ASSAY ANALYTICAL REPORT

CLIENT: OREQUEST CONSULTANTS LTD.
ADDRESS: 404 - 595 Howe Street
: Vancouver B.C.
: V6C 2T5

DATE: Dec. 10 1985

REPORT#: 85-66-082
JOB#: 85598

PROJECT#: RG - 85
SAMPLES ARRIVED: Dec 6 1985
REPORT COMPLETED: Dec. 10 1985
ANALYSED FOR: Ag Au

INVOICE#: 9184
TOTAL SAMPLES: 166
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 166 Cores

SAMPLES FROM: MR. JACQUE DEMOUCHEL
COPY SENT TO: MR. JACQUE DEMOUCHEL

PREPARED FOR: MR. JACQUE DEMOUCHEL

ANALYSED BY: David Chiu

SIGNED: _____

Registered Provincial Assayer

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

CREQUEST CONSULTANTS LTD.

PAGE 1 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
8101	.01	.008	11.0 → 12.0
8102	<.01	<.005	21.0 → 23.1
8103	.03	<.005	23.45 → 24.25
8104	.02	.028	25 - → 36
8105	.06	.024	39.7 → 40.7
8106	.06	.018	40.7 → 41.7
8107	.06	.044	41.7 → 42.8
8108	.05	.028	42.8 - 44.0
8109	.05	.026	47.5 - 48.5
8110	.01	.014	49.0 - 50.0
8111	.01	.024	50 - 51
8112	.04	.024	51 - 52
8113	.03	.028	52 - 53
8114	.04	.034	53 - 54
8115	.02	.032	54 - 55
8116	.08	.084	55 - 56
8117	.04	.022	56 - 57
8118	.05	.046	57 - 57.9
8119	.09	.076	57.9 - 58.9
8120	.05	.278	58.9 - 59.6

Handwritten notes:
 23m
 49.0 - 72.0
 0.041 oz/st
 278 oz/st
 0.7m
 58.9 - 59.6

Handwritten notes:
 .278 oz
 0.7m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

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(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 2 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
8121	.05	.032	1 59.6 - 60.6
8122	.02	.010	1.2 60.6 - 61.8
8123	.02	.038	1.05 61.8 - 62.85
8124	.04	.030	1.15 62.85 - 64
8125	.01	<.005	1 64 - 65
8126	.06	.038	1 65 - 66.5
8127	.11	.112	1 66 - 67.5
8128	.06	.044	1 67 - 68.5
8129	.04	.034	1 68 - 69.5
8130	.03	.022	1 69 - 70
8131	.03	.028	70 - 71
8132	.04	.044	71.5 - 72.6
8133	.03	.008	72 - 73
8134	.02	<.005	
8135	.04	<.005	
8136	.02	<.005	
8137	.03	.014	
8138	.04	.012	
8139	.01	.022	
8140	.02	<.005	

02

03

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

1 ppm = parts per million

(= less than

signed: _____

948.8

23



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 3 OF 9

SAMPLE #	Ag oz/st	Au oz/st
8141	.01	.006
8142	<.01	<.005
8143	.06	<.005
8144	<.01	<.005
8145	<.01	.008
8146	<.01	<.005
8147	.01	.008
8148	<.01	<.005
8149	.01	<.005
8150	.05	.020
9101	.04	<.005
9102	.05	<.005
9103	.01	<.005
9104	.01	<.005
9105	.03	<.005
9106	.03	.018
9107	<.01	.008
9108	.02	.022
9109	.01	.016
9110	.01	<.005

03

10.4

85-01

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5658

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 4 OF 9

SAMPLE #	Ag oz/st	Au oz/st
9111	.02	<.005
9112	.02	.008
9113	.02	<.005
9114	<.01	<.005
9115	.04	<.005
9116	.04	.026
9117	.01	<.005
9118	.02	.008
9119	<.01	<.005
9120	.02	<.005
9121	.05	.084
9122	.04	.026
9123	.03	<.005
9124	.01	<.005
9125	<.01	<.005
9126	<.01	<.005
9127	.02	.008
9128	.02	.024
9129	<.01	.030
9130	.02	.044

01

65.55 - 66.55
66.55 - 67.55
67.55 - 68.60

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 5 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
9131	.05	.024	68.6 - 69.6
9132	.03	.020	69.6 - 70.6
9133	.04	.038	70.6 - 71.7
9134	.03	.038	71.7 - 72.7
9135	.01	.008	
9136	<.01	<.005	
9137	<.01	<.005	
9138	<.01	<.005	
9139	.02	.020	
9140	.01	.010	
9141	<.01	<.005	
9142	<.01	<.005	
9143	.01	.010	
9144	<.01	<.005	
9145	.01	.020	
9146	.01	.036	
9147	.03	.032	- 85.2
9148	<.01	<.005	7.1
9149	<.01	<.005	
9150	<.01	<.005	10.4

*0.031 g Au
in 7.15 m.
from 65.55 - 72.70.*

01

01

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

DREQUIST CONSULTANTS LTD.

PAGE 6 OF 9

SAMPLE #	Ag oz/st	Au oz/st
9301	.02	.008
9302	.01	.006
9303	<.01	<.005
9304	.01	<.005
9305	<.01	<.005
9306	<.01	<.005
9307	.01	<.005
9308	.01	.016
9309	<.01	<.005
9310	<.01	<.005
9311	<.01	.022
9312	<.01	<.005
9313	.01	<.005
9314	<.01	<.005
9315	<.01	<.005
9316	<.01	<.005
9317	<.01	<.005
9318	.03	.050
9319	.03	.032
9320	<.01	<.005

RG-3

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-882

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 7 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
9321	.01	<.005	
9322	.02	.030	
9323	.01	<.005	
9324	<.01	<.005	
9325	.02	.018	- 94.87
9326	<.01	<.005	
9327	.02	<.005	116.3
9328	<.01	<.005	5.5 -
9329	<.01	<.005	
9330	.03	<.005	
9331	<.01	<.005	
9332	<.01	<.005	
9333	.07	.006	
9334	<.01	<.005	
9335	<.01	<.005	
9336	.02	<.005	
9337	.01	.028	
9338	<.01	<.005	
9339	<.01	<.005	
9340	<.01	<.005	

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

DREQUIST CONSULTANTS LTD.

PAGE 8 OF 9

SAMPLE #	Ag oz/st	Au oz/st
9341	<.01	.006
9342	<.01	<.005
9343	<.01	<.005
9344	.01	<.005
9345	.01	.012
9346	.01	.026
9347	.01	<.005
9348	.02	.006
9349	.04	.018
9350	.03	.026
9351	<.01	<.005
9352	<.01	<.005
9353	<.01	<.005
9354	.01	.008
9355	<.01	<.005
9356	<.01	<.005
9357	.02	<.005
9358	.01	.008
9359	<.01	<.005
9360	.03	.016

04

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-082

JOB NUMBER: 85598

OREQUEST CONSULTANTS LTD.

PAGE 9 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
9361	.02	.024	
9362	<.01	<.005	
9363	.06	.008	
9364	.01	.016	
9365	<.01	<.005	
9366	.01	.020	~ 70 m

64.

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

PDH 5, 6, 7, 8, 9

RECEIVED
JAN - 6 1986

ASSAY ANALYTICAL REPORT

CLIENT: DREQUEST CONSULTANTS LTD.
ADDRESS: 404 - 595 Howe Street
: Vancouver B.C.
: V6C 2T5

DATE: Dec 20 1985

REPORT#: 85-66-085
JOB#: 85608

PROJECT#: RG - 85
SAMPLES ARRIVED: Dec 16 1985
REPORT COMPLETED: Dec 20 1985
ANALYSED FOR: Au Ag

INVOICE#: 9206
TOTAL SAMPLES: 156
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 156 ROCK

SAMPLES FROM: J. DUMOUCHEL
COPY SENT TO: J. DUMOUCHEL

PREPARED FOR: J. DUMOUCHEL

ANALYSED BY: David Chiu

SIGNED: _____

Registered Provincial Assayer

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85608

OREQUEST CONSULTANTS LTD.

PAGE 1 OF 8

SAMPLE #

Ag
oz/st

Au
oz/st

07451	.03	.008	27-28
07452	.01	.026	28-29
07453	.01	.038	29-29.9
07454	<.01	.012	29.9-31.1
07455	.02	.018	31.1-32
07456	.01	.030	32-33
07457	.01	.024	33-34
07458	.03	.032	34-35
07459	.03	.006	35-36
07460	<.01	<.005	36-37
07461	.07	.018	37-38
07462	.03	.006	38-39
07463	.01	.030	39.6-41.0
07464	.01	.018	41-42
07465	<.01	.026	42-43
07466	.04	.040	43-44
07467	.02	.068	44-45
07468	.06	.270	45-46.2
07469	.08	.046	46.2-47
07470	.01	.018	47-48

HOLE 09

0.073/7.4m^{*}
includes^{*}
0.143/3.0m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5658

REPORT NUMBER: 85-66-085

JOB NUMBER: 85608

DREQUIST CONSULTANTS LTD.

PAGE 2 OF 8

SAMPLE #	Ag oz/st	Au oz/st		
07471	<.01	<.005	4 - 5.6	
07472	<.01	<.005	8 - 10.8	
07473	.04	.028	10.8 - 12.2	↓ 0.020 / 1.4m
07474	<.01	<.005		
07475	.01	<.005		
07476	.01	<.005		
07477	<.01	.006		HOLE 08
07478	<.01	<.005		
07479	.01	.006		
07480	.02	.008		
07481	<.01	<.005		
07482	.02	.020	24 - 25	
07483	.02	.010	25.5 - 27	
07484	.01	<.005	27 - 28.5	
08226	.01	.026	76 - 77	
08227	<.01	<.005	77 - 78	
08228	<.01	<.005	78 - 79	HOLE 05
08229	.04	<.005	79 - 80	
08230	.03	<.005	80.2 - 81.1	
08231	<.01	<.005	8 - 9	HOLE 06

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5658

REPORT NUMBER: 85-66-085

JOB NUMBER: 85600

DREDQUEST CONSULTANTS LTD.

PAGE 3 OF 8

SAMPLE #	Ag oz/st	Au oz/st	
08232	.06	.022	11.3 - 12.3
08233	.01	<.005	
08234	<.01	<.005	
08235	.02	.008	23 - 24
08236	.01	.014	29.75 - 30.8
08237	.03	.014	36.1 - 37.3
08238	.01	<.005	
08239	<.01	<.005	
08240	<.01	<.005	
08241	<.01	<.005	
08242	.01	<.005	
08243	.02	<.005	
08244	.03	.010	53.4 - 54.4
08245	.03	.022	54.4 - 55.4
08246	.03	.016	55.4 - 56.4
08247	<.01	<.005	
08248	<.01	<.005	
08249	<.01	<.005	
08250	.03	.010	52.4 - 53.4
08276	<.01	<.005	57.4 - 58.4

HOLE 06

0.016 / 3.0m *

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 906-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85608

CREQUEST CONSULTANTS LTD.

PAGE 4 OF 8

SAMPLE #	Ag oz/st	Au oz/st	
08277	<.01	<.005	58.4 - 59.4 ?
08278	.02	.010	59.4 - 60.4
08279	.03	<.005	
08280	<.01	<.005	
08281	.02	<.005	
08282	<.01	<.005	
08283	<.01	<.005	
08284	.02	<.005	
08285	.03	.006	
08286	<.01	<.005	
08287	.04	<.005	
08288	.05	<.005	68.5 - 69
09367	.03	<.005	5-6
09368	<.01	<.005	6-7.1
09369	.06	.028	15.3-16.3
09370	.02	.028	16.3-17.3
09371	.01	.024	17.3-18.3
09372	.04	.010	18.3-19.3
09373	.05	.010	22.7-23.7
09374	.05	.026	27.5-28.5 I

HOLE 06

0.023/4.0m*
HOLE 05

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 866-5211 TELEX: 04-352578

BRANCH OFFICE
1830 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85688

OREQUEST CONSULTANTS LTD.

PAGE 5 OF 8

SAMPLE #	Ag oz/st	Au oz/st	
09375	.01	<.005	32.45 - 33.45
09376	.04	.026	38.4 - 39.5 I 0.026/1.5
09377	.04	.006	44.4 - 45.4
09378	.09	.032	45.4 - 46.4 I 0.032/1.0
09379	.03	<.005	46.4 - 47.4
09380	<.01	.008	47.4 - 48.4
09381	.04	.064	48.4 - 49.4 I 0.064/1.0m
09382	.01	<.005	57.25 - 58.25
09383	.06	.084	58.25 - 59.25 I 0.084/1.0
09384	.04	.006	
09385	<.01	<.005	
09386	.03	.008	
09387	.02	<.005	62 - 63
09388	.01	.008	63 - 64
09389	<.01	.006	64 - 65
09390	.02	.006	
09391	<.01	<.005	
09392	<.01	<.005	
09393	.01	<.005	
09394	.04	.012	

Finished

HOLE 05

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1830 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85608

OREQUEST CONSULTANTS LTD.

PAGE 6 OF 8

SAMPLE #	Ag oz/st	Au oz/st		
09395	<.01	.014	70-71	
09396	.04	<.005		
09397	<.01	<.005		
09398	.02	<.005		HOLE 05
09399	.01	<.005		
09400	.02	<.005	75-76	
09401	.02	.020	7.3-8	0.025/1.6m* already released
09402	.01	.028	8-8.9	
09403	<.01	<.005		
09404	<.01	<.005		
09405	<.01	<.005		
09406	.02	<.005		
09407	<.01	<.005		HOLE 07
09408	.02	<.005		
09409	.02	.012	26-27	
09410	<.01	<.005		
09411	<.01	<.005		
09412	<.01	<.005		
09413	<.01	.010	32.8 - 33.8	
09414	<.01	.010	33.8 - 34.8	

Finished

HOLE 05

HOLE 07

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85600

OREQUEST CONSULTANTS LTD.

PAGE 7 OF 8

SAMPLE #

Ag
oz/st

Au
oz/st

Finished

09415	.02	<.005	34.8 - 35.8
09416	.02	.008	
09417	.03	<.005	
09418	.01	<.005	
09419	.01	<.005	
09420	<.01	<.005	
09421	<.01	<.005	
09422	.01	<.005	
09423	.02	<.005	
09424	<.01	<.005	
09425	.03	.010	45.2 - 46.2
09426	.02	.006	46.2 - 47.4
09427	.03	<.005	
09428	<.01	<.005	
09429	.01	.006	
09430	<.01	<.005	
09431	.03	<.005	
09432	<.01	.014	
09433	.01	.032	9 - 10 I
09434	.07	.014	10 - 11

HOLE 07

HOLE 09

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-085

JOB NUMBER: 85600

DREQUIST CONSULTANTS LTD.

PAGE 8 OF 8

SAMPLE #

Ag
oz/st

Au
oz/st

Finished

09435

<.01

.016

11-12

09436

.01

<.005

09437

<.01

<.005

09438

.03

.034

14-15 I 0.034/11.0m

09439

.04

<.005

09440

.02

<.005

09441

.03

<.005

09442

.03

<.005

HOLE 09

09443

<.01

<.005

09444

.04

.022

20-21

09445

.03

.024

21-22

09446

.09

.046

22-23

09447

.04

.028

23-24

0.025/7.0m *
already released

09448

.01

.020

24-25

09449

.03

.018

25-26

09450

<.01

.014

26-27

DETECTION LIMIT

1 Troy oz/short ton = 31.28 ppm

1 ppm = 0.0001%

.01

.005

ppm = parts per million

(= less than

signed: _____



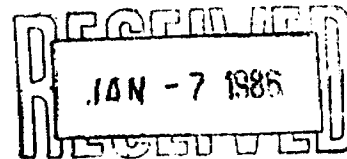
VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

CONTAINS
D HOLE
BREAKDOWNS

FOR # 8, 10, 11, 12



ASSAY ANALYTICAL REPORT

CLIENT: OREQUEST CONSULTANTS LTD.
ADDRESS: 404 - 595 Howe Street
: Vancouver B.C.
: V6C 2T5

DATE: Dec 23 1985

REPORT#: 85-66-088
JOB#: 85614

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: Dec 19 1985
REPORT COMPLETED: Dec 23 1985
ANALYSED FOR: Ag Au

INVOICE#: 9210
TOTAL SAMPLES: 178
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 178 ROCKS

SAMPLES FROM: J. DUMOUCHEL
COPY SENT TO: J. DUMOUCHEL - CALGARY

PREPARED FOR: MR. J. DUMOUCHEL

ANALYSED BY: David Chiu

SIGNED:

Registered Provincial Assayer

GENERAL REMARK: None



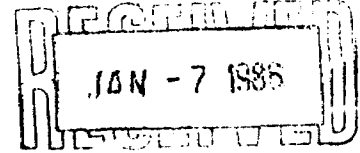
VANGEOCHEM LAB LIMITED

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CONTAINS
HOLE
BREAKDOWNS

FOR # 8, 10, 11, 12



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SIGNED:



Registered Provincial Assayer

GENERAL REMARK: None



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REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 1 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07485	.01	<.005	28.5 - 30
07486	.03	<.005	30 - 31.5
07487	.04	.070	31.5 - 33
07488	.02	.030	33 - 34.5
07489	.03	.006	34.5 - 36
07490	.04	.018	36 - 37.5
07491	.03	.006	37.5 - 39
07492	<.01	.024	39 - 40.5
07493	.03	.006	40.5 - 41.5
07494	.05	.018	41.5 - 42.5
07495	.01	<.005	42.5 - 44
07496	.05	.008	44 - 45.5
07497	<.01	<.005	45.5 - 47
07498	.02	.014	47 - 48.5
07499	.03	.024	48.5 - 50
07500	.01	.028	50 - 51.5
07501	.03	.020	51.5 - 53
07502	.01	.064	53 - 54.5
07503	.04	.038	54.5 - 56
07504	.05	.040	56 - 57.5

Finished

0.05 / 3m

HOLE 08

0.027 / 22.5m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01 ppm = 0.0001%

.005 ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

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BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

DREQUIST CONSULTANTS LTD.

PAGE 2 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07505	.02	.020	57.5 - 59
07506	.04	.022	59 - 60.5
07507	.06	.010	60.5 - 62
07508	.04	.018	62 - 63.5
07509	.04	.042	63.5 - 65
07510	.04	.018	65 - 66.5
07511	.03	.014	66.5 - 68.0
07512	.03	.030	68 - 69.5
07513	.03	.016	69.5 - 71
07514	.01	<.005	71 - 72.5
07515	.03	.012	73 - 74.5
07516	.07	.010	74.5 - 76
07517	<.01	.014	76 - 77.5
07518	.01	.018	77.5 - 78.5
07519	.03	.008	78.5 - 79.5
07520	.02	.022	79.5 - 80.5
07521	.04	.070	80.5 - 81.5
07522	.04	.078	81.5 - 83
07523	.04	.032	83 - 84.5
07524	.03	.046	84.5 - 86.0

Finished

0.027/22.5m

HOLE 08

} includes
0.075/2.5

0.047/24.85m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm .01 .005
1 ppm = 0.0001% ppm = parts per million (= less than

signed: _____

0.031 / 57.35 m



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 996-5211 TELEX: 04-352578

BRANCH OFFICE
1830 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 3 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07525	.03	.032	86 - 87.5
07826	.05	.028	87.5 - 89
07827	<.01	.012	89 - 90.5
07828	.05	.078	90.5 - 92
07829	.04	.054	92 - 93.5
07830	.02	.024	93.5 - 95
07831	.02	.046	95 - 96.5
07832	.01	.090	96.5 - 98
07833	.03	.132	98 - 98.8
07834	.03	.028	98.8 - 100.3
07835	.03	.020	100.3 - 101.8
07836	.05	.024	101.8 - 103.3
07837	.04	.076	103.3 - 104.35
07838	.01	<.005	104.35 - 105.35
07839	.01	<.005	105.35 - 106.35
<hr/>			
07840	.03	<.005	4-5
07841	.04	<.005	5-6
07842	<.01	<.005	6-7
07843	.04	.046	7-8
07844	.01	.032	8-9.5

0.047 / 2A.85.



} includes
0.105 / 2.3.

HOLE 10

0.038 / 2.5 m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
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NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5858

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 4 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07845	.01	.006	9.5-11
07846	.02	.008	11-12.5
07847	.03	.012	12.5-14
07848	.04	.026	14-15.5
07849	.01	<.005	15.5-17
07850	.03	.010	17-18.5
07851	.03	.012	18.5-20
07852	.03	.016	20-21
07853	<.01	.008	63.4-65
07854	.04	.014	65-66
07855	<.01	.260	66-67
07856	.18	.040	67-68
07857	<.01	<.005	68-69.5
07858	.02	.014	69.5-71
07859	<.01	.006	71-72.5
07860	<.01	.012	72.5-74
07861	.01	<.005	74-75.5
07862	<.01	.016	75.5-77
07863	.01	.012	77-78.5
07864	.02	.006	78.5-80

Finished

0.026 / 1.5m

route at 0.5

*HOLE 10
0.150 / 2.0m*

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm .01 .005
1 ppm = 0.0001% ppm = parts per million (= less than)

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
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(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 5 OF 9

SAMPLE #	Ag oz/st	Au oz/st		
07865	.01	<.005	80-81.5	
07866	.03	.022	81.5-83	0.022 / 1.5m
07867	<.01	<.005	83-84.5	
07868	.01	.008	84.5-86	
07869	.05	.016	86-87.5	
07870	.04	.090	87.5-89	0.090 / 1.5m
07871	.03	<.005	89-90.5	
07872	.02	.020	90.5-92	0.020 / 1.5m
07873	.04	<.005	92-93	
07874	.04	.020	93-94.4	0.020 / 1.5m HOLE 10
07875	.04	<.005	94.4-95.5	
07876	.06	.014	95.5-96.5	
07877	.04	<.005	96.5-97.5	
07878	.05	<.005	97.5-98.5	
07879	.17	.068	98.5-99.5	
07880	.08	.092	99.5-100.5	
07881	.03	.044	100.5-101.5	0.060 / 7m
07882	.06	.036	101.5-102.5	includes .092 over 1m
07883	.03	.040	102.5-103.5	.122 over 1m
07884	.06	.122	103.5-104.5	

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



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BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L8
(604) 251-5658

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 6 OF 9

SAMPLE #	Ag oz/st	Au oz/st		Finished
07885	.02	.020	104.5 - 105.5	↑
07886	.01	.014	105.5 - 106.5	
07887	<.01	.010	106.5 - 107.5	
07888	.02	.028	107.5 - 108.5	↓ 0.020/1.0
07889	<.01	<.005	108.5 - 109.5	
07890	.03	<.005	109.5 - 110.5	
07891	.02	.016	110.5 - 111.5	
07892	.02	.028	111.5 - 112.5	↑ 0.03/4.9 ↓
07893	.02	.012	112.5 - 113.5	
07894	.01	.024	113.5 - 114.5	
07895	.02	.070	114.5 - 115.4	
07896	.02	.018	115.4 - 116.4	
07897	.01	<.005	116.4 - 117.4	
07898	<.01	<.005	120 - 121	
07899	<.01	<.005	21.5 - 23	
07900	<.01	.006	23 - 24	could be to 24.5?
07901	.01	<.005	24.5 - 26	
07902	.01	<.005	26 - 27	
07903	.07	.010	33 - 34	
07904	.02	<.005	34 - 35	

HOLE 10

DETECTION LIMIT

.01 .005
1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001% ppm = parts per million (= less than

signed: _____



VANGEOCHEM LAB LIMITED

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(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5856

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

DREQUIST CONSULTANTS LTD.

PAGE 7 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07905	<.01	<.005	35-36
07906	<.01	<.005	
07907	<.01	<.005	
07908	<.01	<.005	40-41
07909	.04	.028	41-41.5
07910	.01	.018	41.5-42.5
07911	.02	.006	42.5-43.7
07912	.03	.078	43.7-45
07913	.01	.052	45-46.25
07914	<.01	<.005	52-53.5
07915	<.01	<.005	
07916	<.01	<.005	
07917	.03	.008	
07918	.02	<.005	
07919	.03	.012	58.5-59.5
07920	<.01	<.005	59.5-60.5
07921	.02	<.005	3.1-4
07922	.01	.010	4-5
07923	.03	.012	5-6
07924	.01	.012	6-7

Finished

0.021 / 1.5m

HOLE 10

0.065 / 2.55m

HOLE 11

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million.

(< = less than

signed: _____



VANGEOCHEM LAB LIMITED

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VANCOUVER, B.C. V5L 1L6
(604) 251-5856

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

OREQUEST CONSULTANTS LTD.

PAGE 8 OF 9

SAMPLE #

Ag
oz/st

Au
oz/st

Finished

HOLE 11

07925

<.01

.026

8.65 - 10 I 0.026 / 1.35m

07926

.01

<.005

45.5 - 47

07927

<.01

<.005

07928

.03

<.005

07929

.02

.008

HOLE 12

07930

<.01

.006

07931

.02

.006

07932

.03

<.005

07933

<.01

<.005

61 - 62

07934

.01

.010

45.6 - 46.6

HOLE 11

07935

.01

<.005

48 - 49

07936

.02

.008

62.5 - 64

07937

<.01

.010

64 - 65.5

07938

.02

<.005

72.5 - 74

07939

<.01

<.005

HOLE 12

07940

<.01

<.005

07941

.01

<.005

07942

.07

.006

78.5 - 80

07943

<.01

.010

80 - 81.5

07944

.03

.014

81.5 - 83

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

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BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-088

JOB NUMBER: 85614

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PAGE 9 OF 9

SAMPLE #	Ag oz/st	Au oz/st	
07945	.04	.016	83-84.5
07946	.01	.010	81.5-86
07947	.03	<.005	
07948	.07	.006	
07949	.01	<.005	
07950	<.01	<.005	90.5-92.5
08289	.02	<.005	4-5.25
08290	.03	<.005	20-21
08291	.01	<.005	
08292	<.01	<.005	
08293	.01	<.005	
08294	.05	<.005	
08295	.01	<.005	
08296	<.01	<.005	
08297	.04	<.005	
08298	.04	<.005	
08299	<.01	<.005	
08300	<.01	<.005	44-45.5

Finished

HOLE 12

HOLE 11

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

< = less than

signed: _____

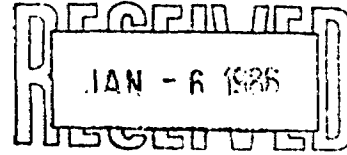


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(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

DDH 11, 12, 13, 14



ASSAY ANALYTICAL REPORT

CLIENT: OREQUEST CONSULTANTS LTD.
ADDRESS: 404 - 595 Howe Street
: Vancouver B.C.
: V6C 2T5

DATE: Jan 6 1986

REPORT#: 85-66-089
JOB#: 85622

PROJECT#: RG 85
SAMPLES ARRIVED: Dec 30 1985
REPORT COMPLETED: Jan 6 1986
ANALYSED FOR: Ag Au

INVOICE#: 9219
TOTAL SAMPLES: 114
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 114 ROCKS

SAMPLES FROM: J. DUMOUCHEL
COPY SENT TO: J. DUMOUCHEL - CALGARY

PREPARED FOR: MR. J. DUMOUCHEL

ANALYSED BY: David Chiu

SIGNED: 

Registered Provincial Assayer

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

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PAGE 1 OF 6

SAMPLE #

Ag
oz/st

Au
oz/st

Finished

04351	.04	<.005	53.5- 54.5
04352	.03	<.005	
04353	.12	<.005	56- 57.4
04354	.02	<.005	
04355	<.01	<.005	
04356	.02	<.005	
04357	<.01	<.005	
04358	.03	<.005	
04359	<.01	<.005	
04360	.02	.010	69.5- 70.5
04361	<.01	<.005	70.5- 71.4
04362	.05	<.005	86.5- 87.6
04363	<.01	<.005	
04364	<.01	<.005	
04365	<.01	<.005	
04366	<.01	<.005	
04367	<.01	<.005	
04368	<.01	<.005	
04369	<.01	<.005	
04370	.01	.016	96- 97

HOLE 13

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(< = less than

signed: _____



VANGEOCHEM LAB LIMITED

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(604) 251-5656

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

DREQUEST CONSULTANTS LTD.

PAGE 2 OF 6

SAMPLE #	Ag oz/st	Au oz/st	
04371	<.01	<.005	97-98
04372	<.01	<.005	
04373	<.01	<.005	
04374	<.01	<.005	
04375	<.01	<.005	
04376	<.01	.010	103.5-105
04377	.02	<.005	105-106.5
04378	<.01	.010	106.5-107.5
04379	.03	<.005	107.5-108.7
04380	.01	.018	108.7-109.4
04381	.02	.010	109.4-110.5
04382	<.01	<.005	110.5-111.5
04383	.04	<.005	6.65-7.65
04384	<.01	.010	
04385	.01	<.005	
04386	.02	<.005	
04387	.02	<.005	
04388	.04	<.005	
04389	.03	<.005	13.2-14.7
04451	.01	.026	37-38.5

Finished

HOLE 13

HOLE 14

HOLE 13
0.026/1.5m

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

DREQUEST CONSULTANTS LTD.

PAGE 3 OF 6

SAMPLE #	Ag oz/st	Au oz/st	
04452	.01	.018	40.3 - 41.5
04453	<.01	<.005	
04454	<.01	<.005	13 - 14.5
04455	<.01	<.005	71.4 - 73
04456	<.01	<.005	
04457	.01	.014	74 - 75
04458	.03	<.005	
04459	<.01	<.005	
04460	<.01	<.005	
04461	.02	<.005	HOLE 13
04462	<.01	.016	80 - 81
04463	.01	<.005	
04464	<.01	<.005	
04465	<.01	<.005	
04466	<.01	.020	85 - 86.5 \bar{I} 0.020/1.5m
04467	<.01	<.005	44.5 - 45.5
04468	<.01	<.005	
04469	<.01	<.005	
04470	.01	<.005	
04471	<.01	<.005	18.5 - 19.5

Finished

HOLE 13

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

< = less than.

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

OREQUEST CONSULTANTS LTD.

PAGE 4 OF 6

SAMPLE #	Ag oz/st	Au oz/st		
04472	<.01	<.005	49.5 - 50.5	
04473	.01	<.005		HOLE 13
04474	<.01	.008	51.5 - 52.5	
04475	.02	<.005	52.5 - 53.5	
09251	.01	<.005	92 - 93.5	
09252	.04	<.005		
09253	.01	<.005		
09254	<.01	.018	96.5 - 98	
09255	.01	<.005	98 - 99.5	
09256	.02	<.005	99.5 - 101	
09257	<.01	.026	101 - 102	↑ 0.026/1.0m HOLE 12
09258	.02	<.005	102 - 103	
09259	<.01	.026	103 - 104	↑ 0.022/2.0m
09260	.02	.018	104 - 105	
09261	.02	<.005	105 - 106	
09262	.03	.030	106 - 107	↑ 0.051/5.0m or 0.044/6.5m including samp on next page
09263	.02	.068	107 - 108	
09264	<.01	.028	108 - 109	
09265	.01	.088	109 - 110	
09266	.02	.042	110 - 111	

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01
1 ppm = 0.0001%

.005
ppm = parts per million

(= less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 886-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5658

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

OREQUEST CONSULTANTS LTD.

PAGE 5 OF 6

SAMPLE #	Ag oz/st	Au oz/st		
09267	.02	.022	111-112.5	⊥ HOLE 12
09268	.01	.012	112.5-113.5	
09269	<.01	<.005	113.5-114.2	
09270	.01	<.005	51-52	
09271	.02	<.005	52-53	
09272	.05	.022	53-54.5	↑ 0.026/3.0m
09273	.03	.030	54.5-56	
09274	.03	.016	56-57	
09275	<.01	.008	57-58	
09276	.02	<.005	58-59	
09277	.03	<.005	59-60	
09278	<.01	.012	60-61	
09279	.01	.010	61-61.85	HOLE 11
09280	.01	.016	61.85-63	
09281	.01	.014	63-64.15	
09282	<.01	.016	64.15-65.15	
09283	<.01	<.005	65.15-66	
09284	<.01	.086	66-67	↑ 0.086/1.0m ↓ 0.028/1.5
09285	.03	.028	68-69.5	
09286	.01	.012	69.5-70.4	

cannot be averaged
as interval from 67-68
was not assayed

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(< = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
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NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-66-089

JOB NUMBER: 85622

DREDQUEST CONSULTANTS LTD.

PAGE 6 OF 6

SAMPLE #	Ag oz/st	Au oz/st		
09287	.06	.006	70.4 - 71.5	HOLE 11 0.024 / 6.7m
09288	.04	.026	71.5 - 72.5	
09289	<.01	.030	72.5 - 73.5	
09290	<.01	.010	73.5 - 74.65	
09291	.02	.022	74.65 - 76.5	
09292	.02	.018	76.5 - 77.5	
09293	.02	.052	77.5 - 78.2	
09294	.01	<.005	6.5 - 7.4	
09295	<.01	<.005	8.8 - 10	
09296	<.01	<.005	10 - 11.7	
09297	.01	.032	33.6 - 34.6	HOLE 13 0.068 / 2.4m } includes 0.166 / 0.6m
09298	<.01	.040	34.6 - 35.4	
09299	.30	.166	35.4 - 36	
09300	.06	<.005	36 - 37	

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.005

ppm = parts per million

(= less than

signed: _____

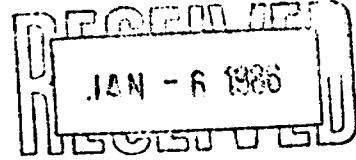


VANGEOCHEM LAB LIMITED

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BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

DDH 14



ASSAY ANALYTICAL REPORT

CLIENT: DREQUEST CONSULTANTS LTD.
ADDRESS: 404 - 595 Howe Street
: Vancouver B.C.
: V6C 2T5

DATE: Dec 20 1985
REPORT#: 85-66-084
JOB#: 85610

PROJECT#: RG85 - 14
SAMPLES ARRIVED: Dec 17 1985
REPORT COMPLETED: Dec 20 1985
ANALYSED FOR: Ag Au

INVOICE#: 9206
TOTAL SAMPLES: 40
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 40 ROCKS

SAMPLES FROM: J. DUMOUCHEL
COPY SENT TO: J. DUMOUCHEL - CALGARY

PREPARED FOR: MR. J. DUMOUCHEL

ANALYSED BY: David Chiu

SIGNED: _____

Registered Provincial Assayer

GENERAL REMARK: None

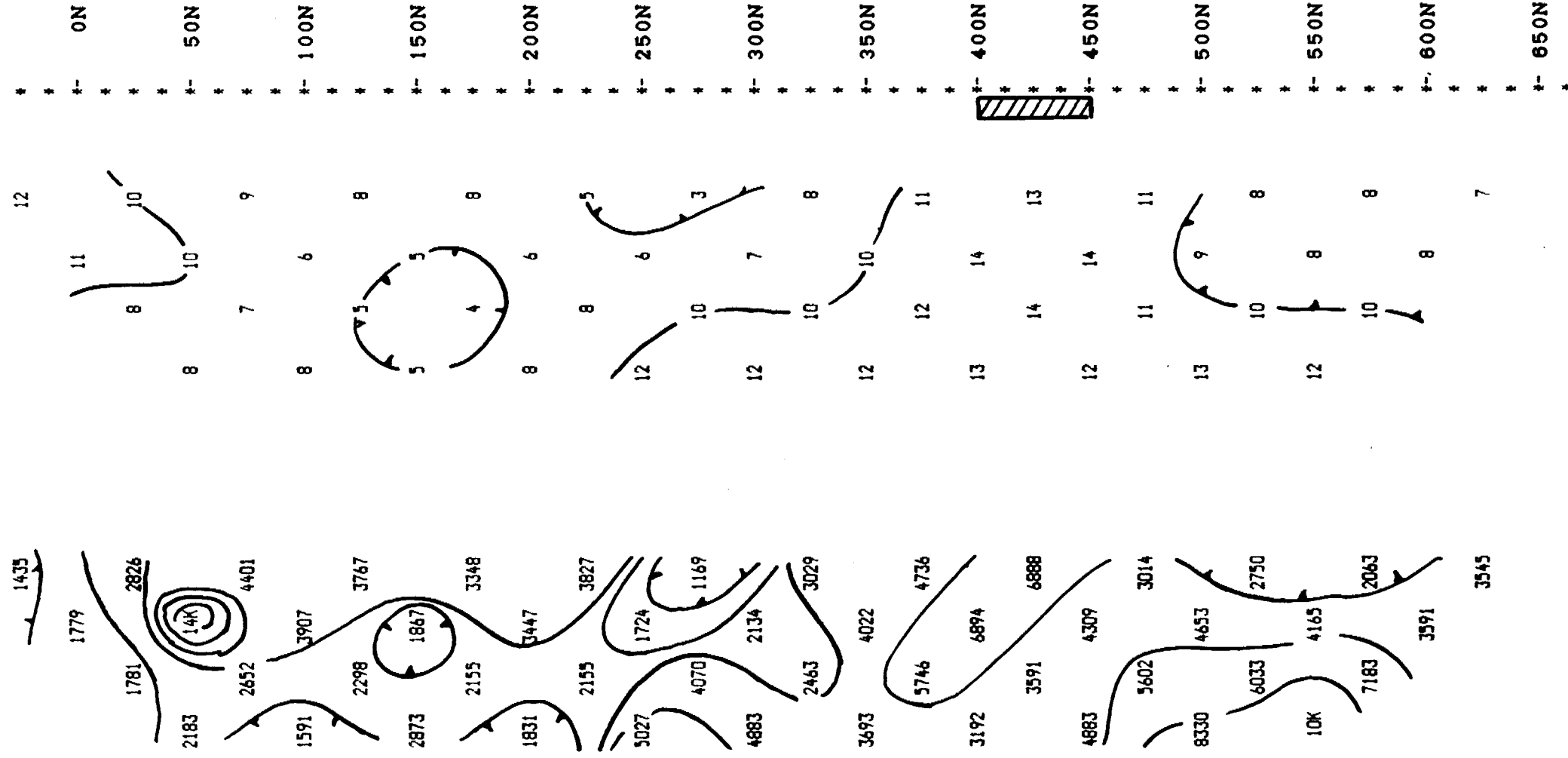
APPENDIX F
IP PSEUDOSECTIONS

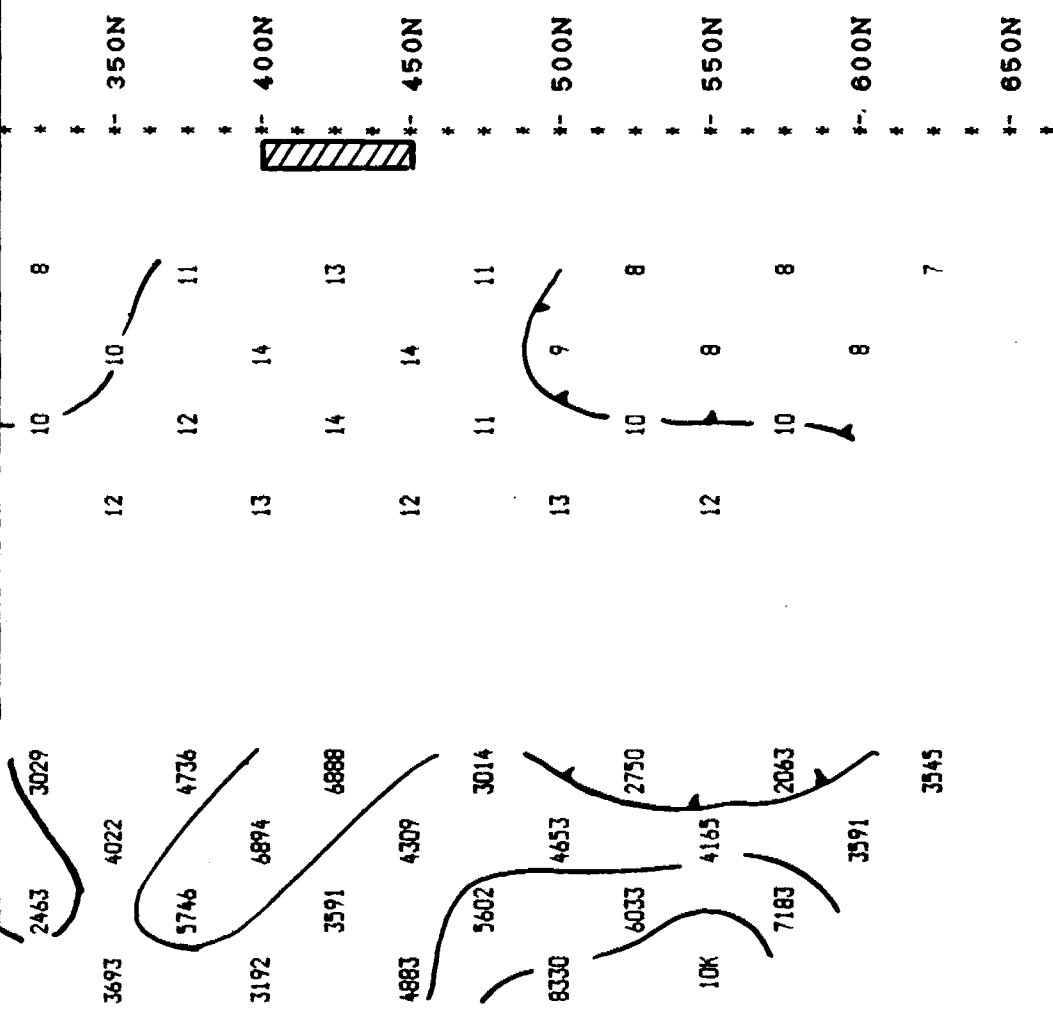
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

N 3 N 1
* *
N 4 N 2
* *

N 3 N 1
* *
N 4 N 2
* *





LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 12+00W

Swayze Area , Porcupine Mining Div., Ontario

OREQUEST 

RESISTIVITY
(ohm - metres)

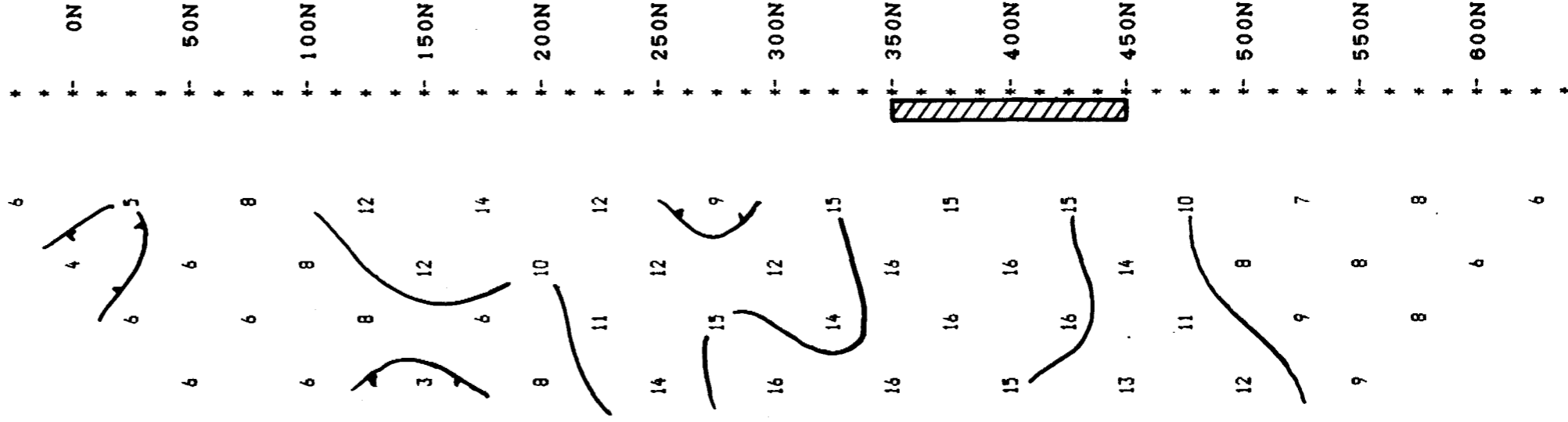
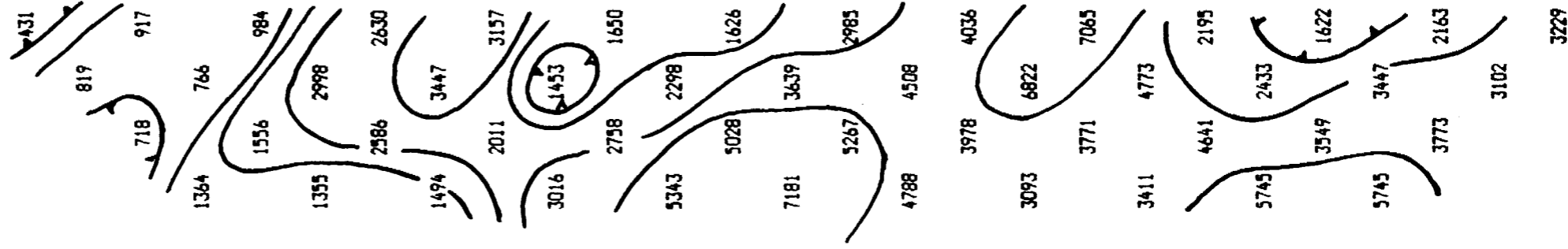
CHARGEABILITY
(milliseconds)

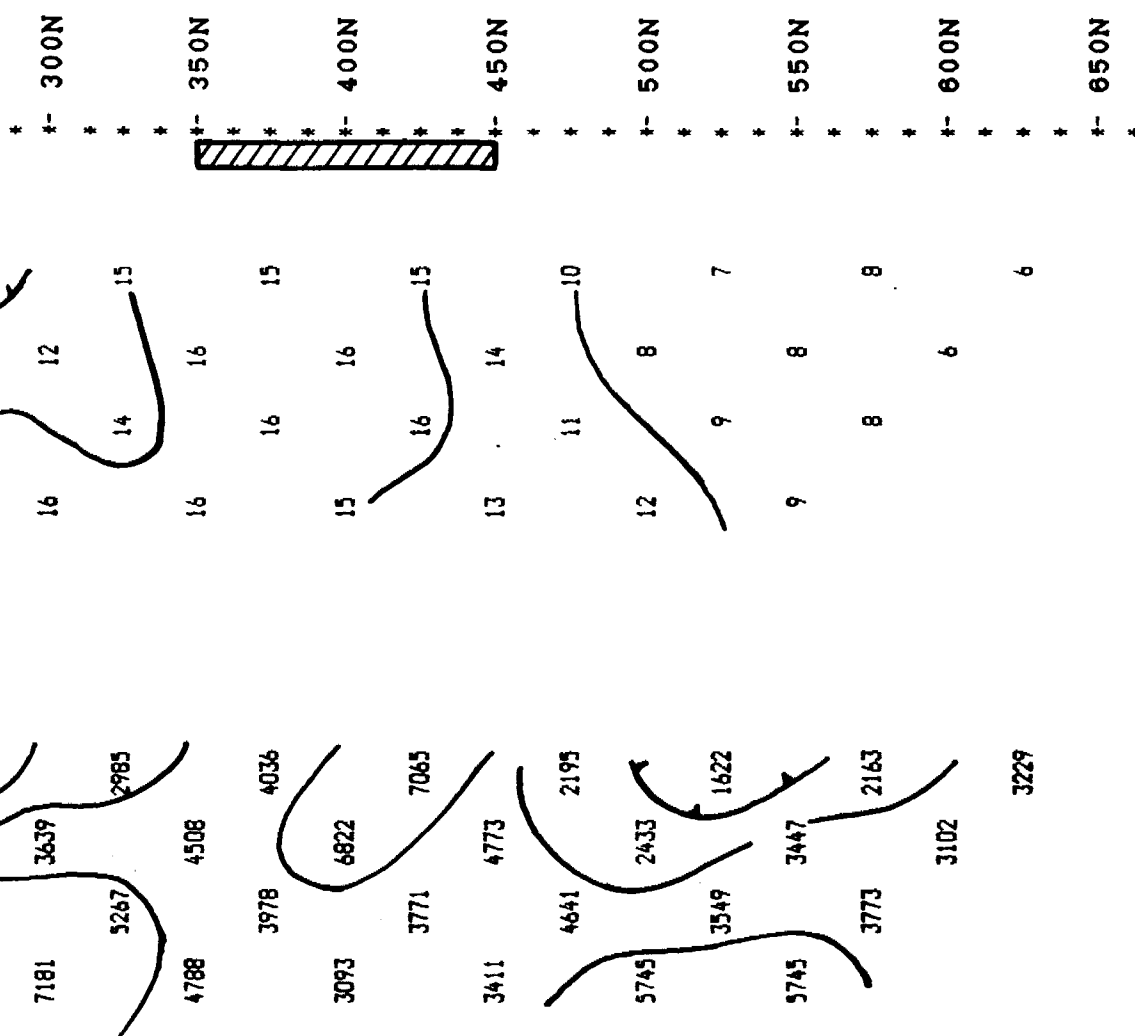
N 3 N 1

N 3 N 1

N 4 N 2

N 4 N 2







LEGEND

INSTRUMENTS : Rx CRONE N-IV
Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET

 CHARGEABILITY ANOMALY
 RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

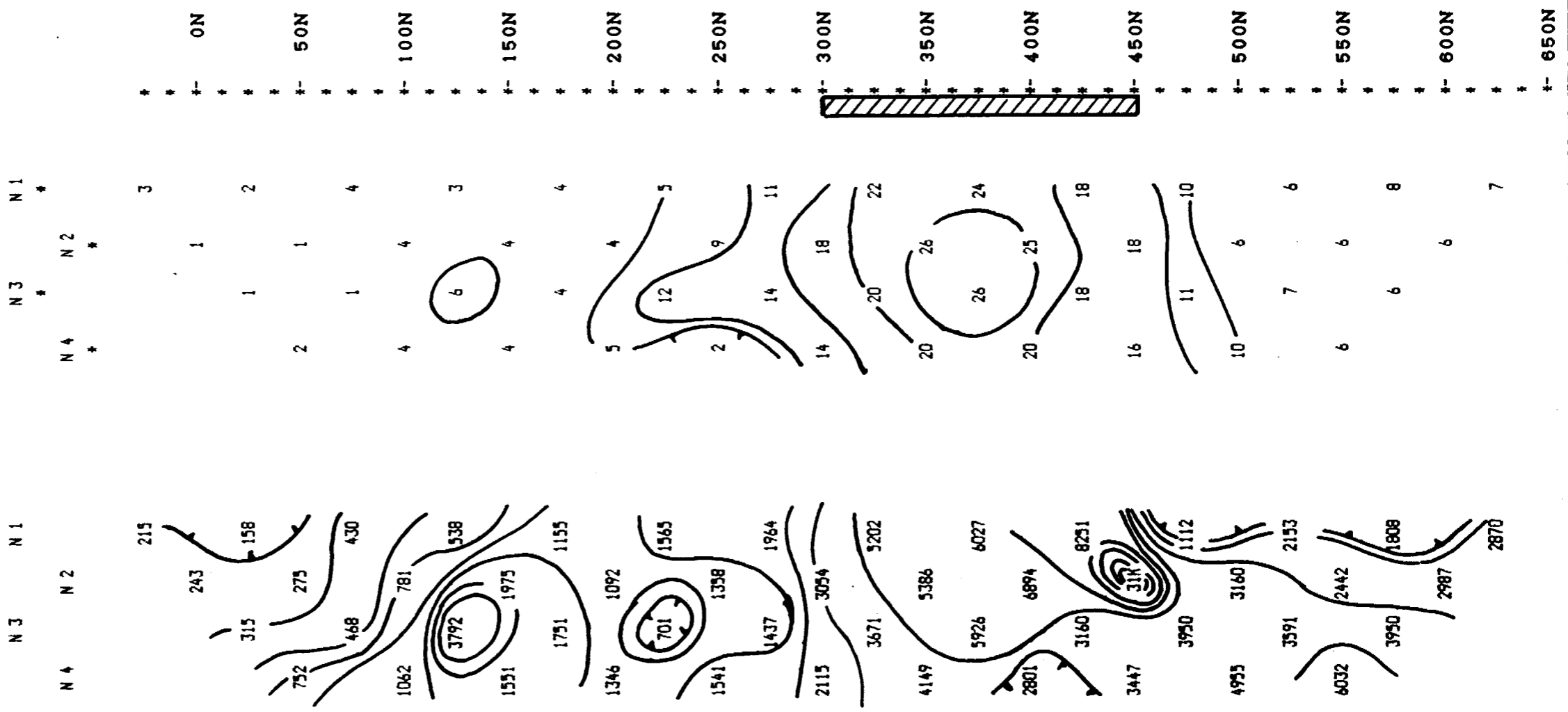
LINE 10+00W

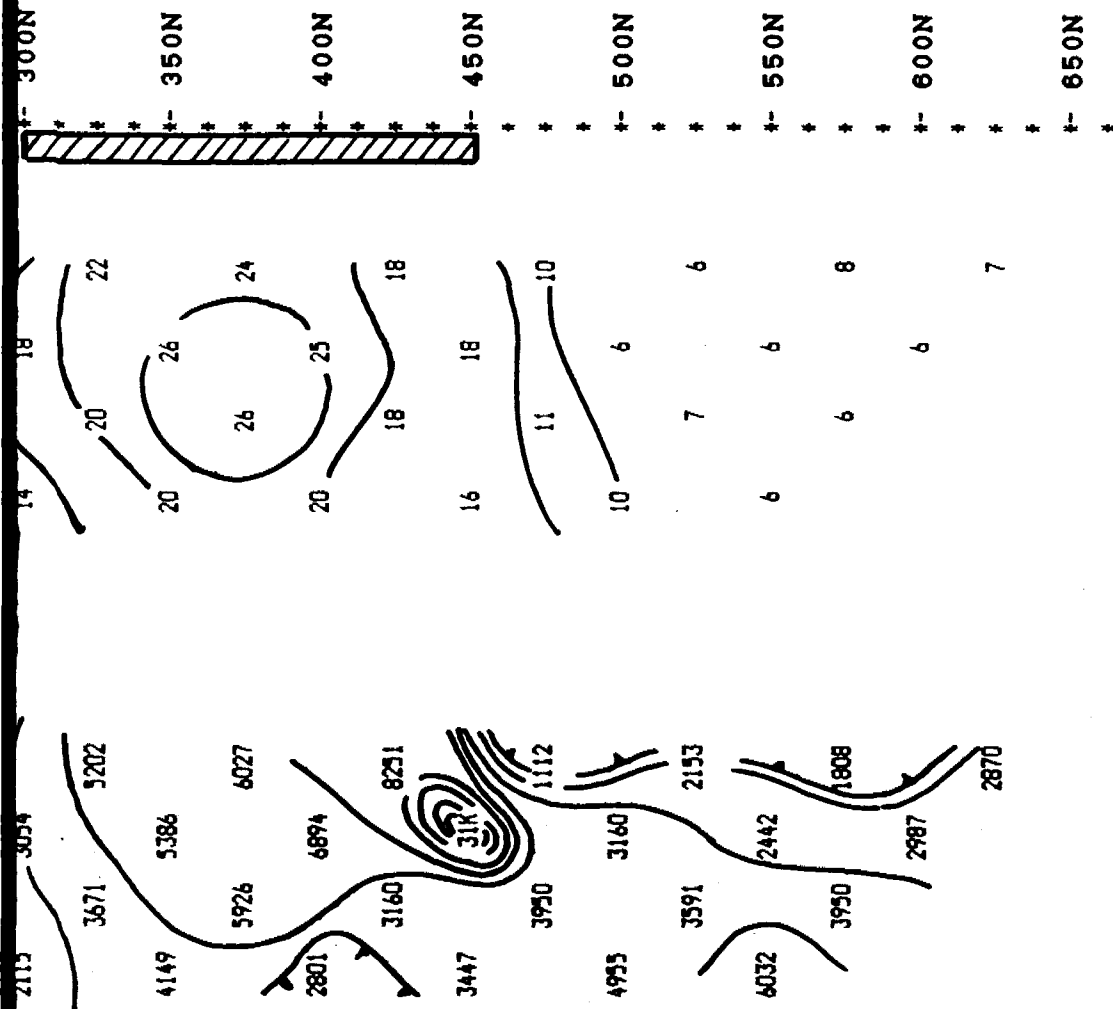
Swayze Area , Porcupine Mining Div., Ontario

OREQUEST 

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)





LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD

IP SURVEY

LINE 8+00W

Swyze Area , Porcupine Mining Div., Ontario

OREQUEST



RESISTIVITY
(ohm - metres)

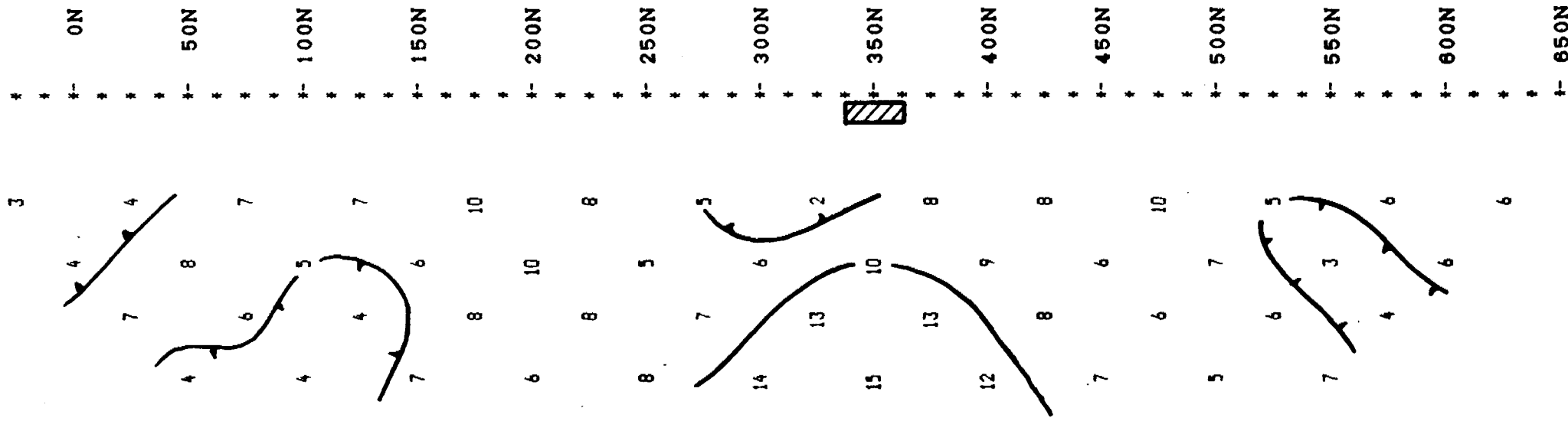
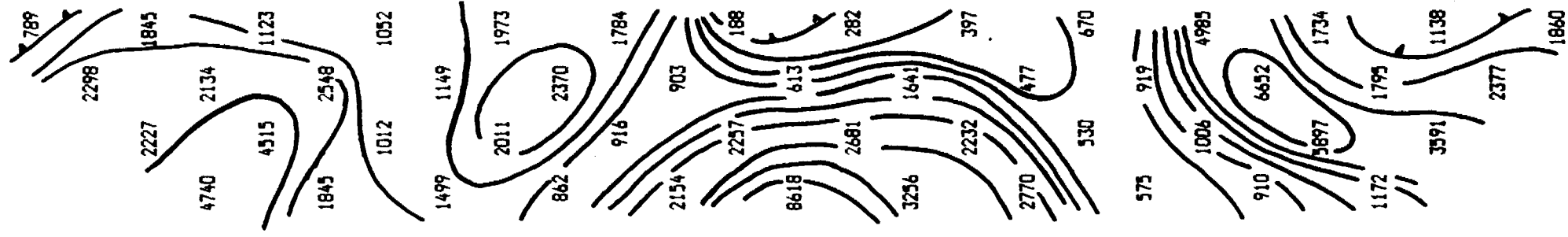
CHARGEABILITY
(milliseconds)

N 3 N 1

N 1

N 4 N 2

N 4 N 2



ON 50N 100N 150N 200N 250N 300N 350N 400N 450N 500N 550N 600N 650N

RESISTIVITY
(ohm - metres)

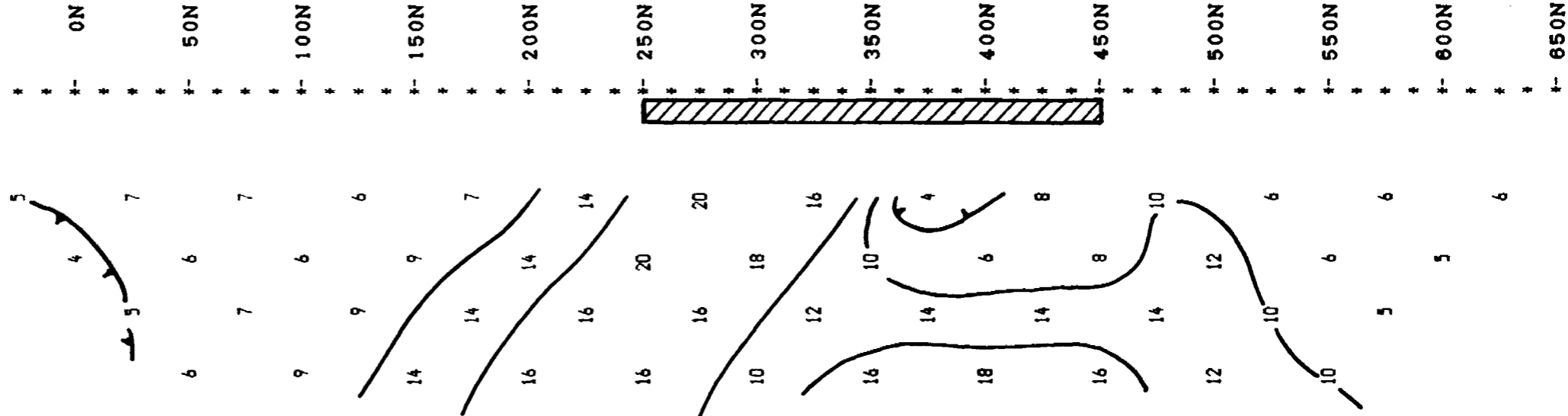
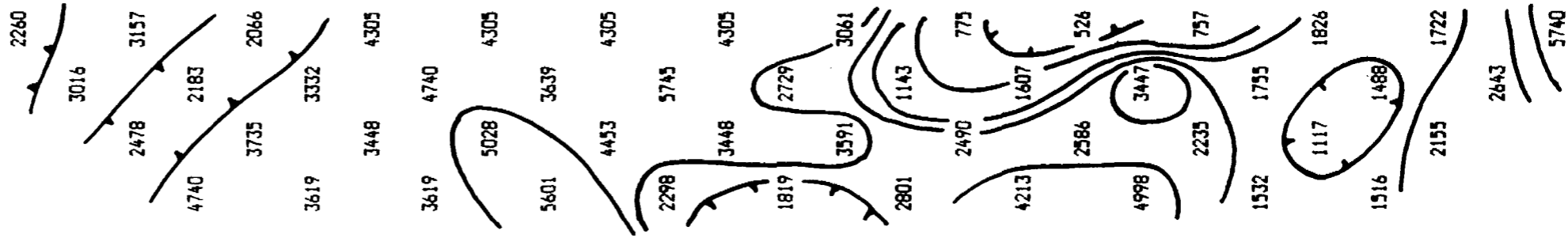
CHARGEABILITY
(milliseconds)

N 3 N 1

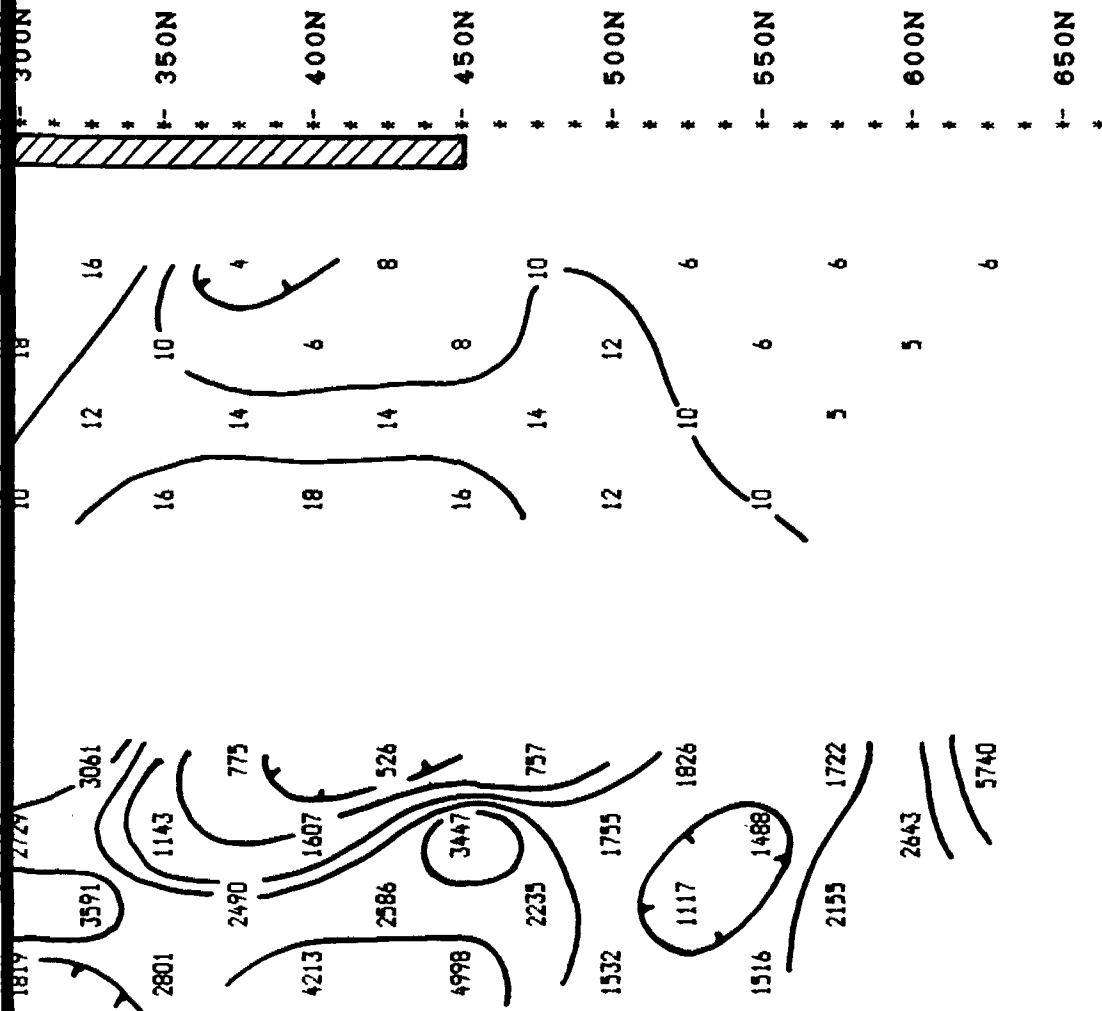
N 3 N 1

N 4 N 2

N 4 N 2



0N 50N 100N 150N 200N 250N 300N 350N 400N 450N 500N 550N 600N 650N



LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING: 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 4+00W

Swayze Area, Porcupine Mining Div., Ontario

OREQUEST

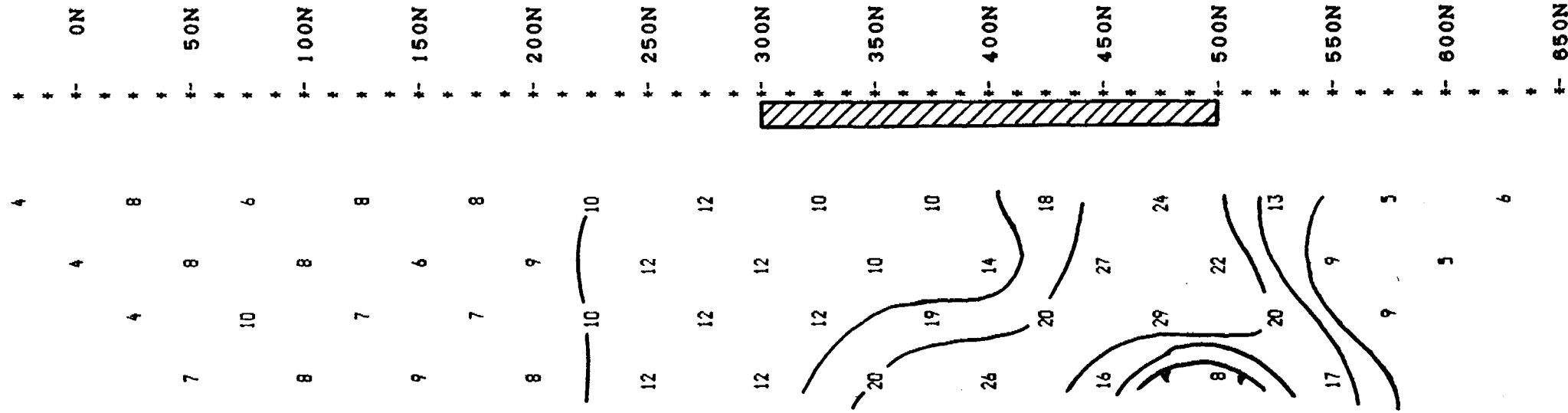
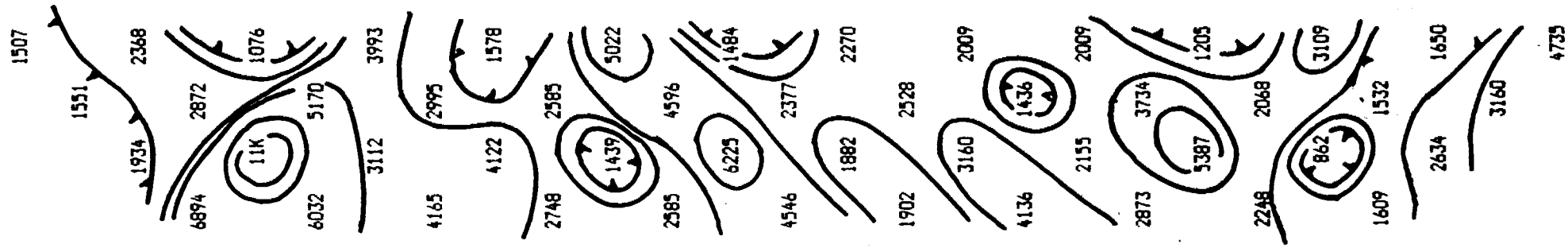


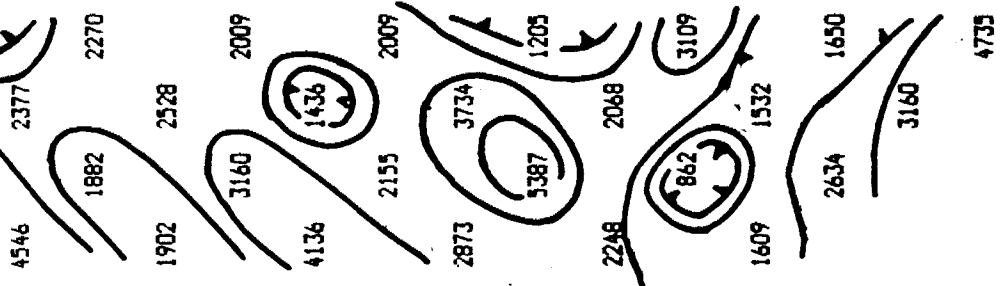
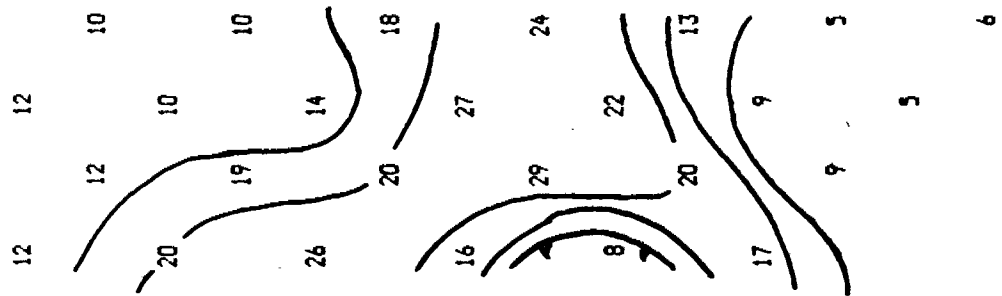
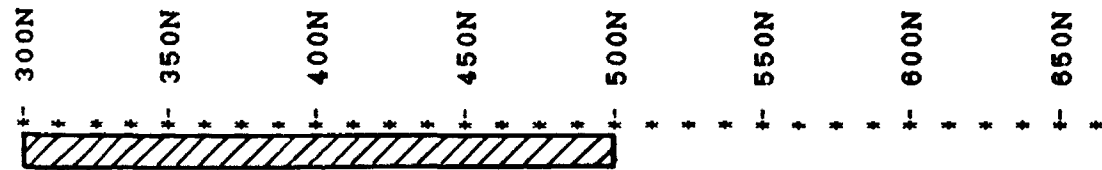
RESISTIVITY
(Ohm - metres)

CHARGEABILITY
(milliseconds)



N 3 N 1
N 4 N 2

N 3 N 1
N 4 N 2





LEGEND

INSTRUMENTS : Rx CRONE N-IV
 Tx PHOENIX IPT-1
 ARRAY : DIPOLE - DIPOLE
 ELECTRODE SPACING : 50 FEET
 CHARGEABILITY ANOMALY
 RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 2+00W

Swayze Area, Porcupine Mining Div., Ontario

OREQUEST 

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

N 3 N 2 N 1

N 4 N 3 N 2 N 1

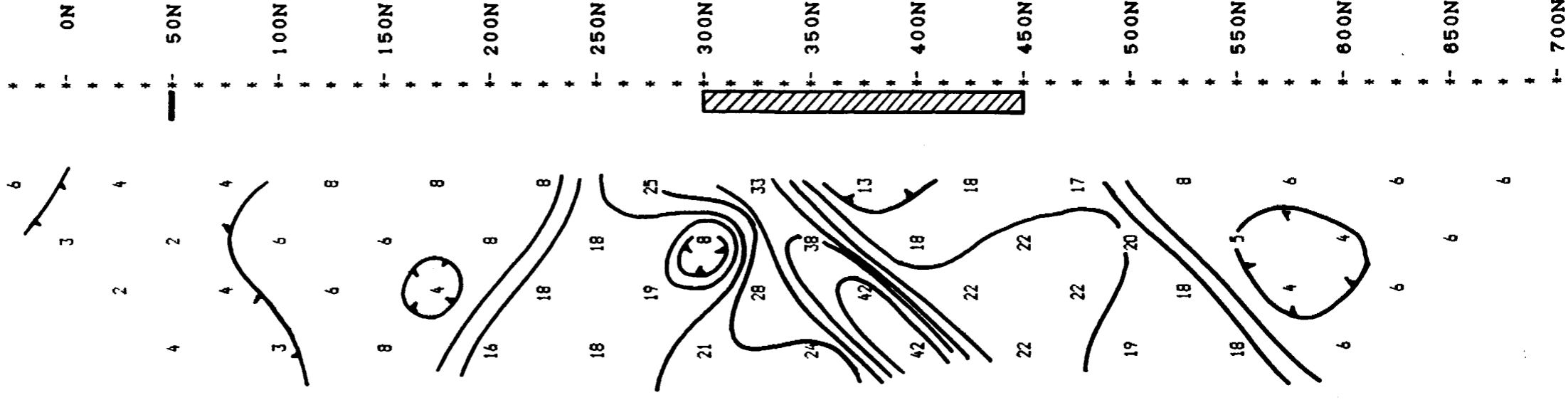
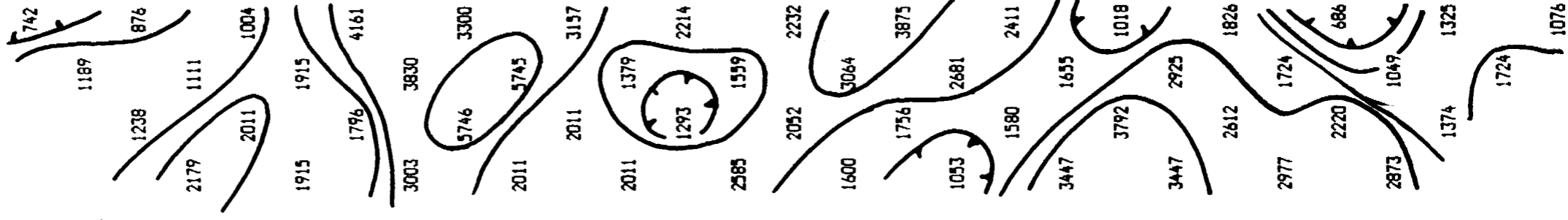
N 4

N 4

N 3

N 2

N 1



RESISTIVITY
(ohm - metres)

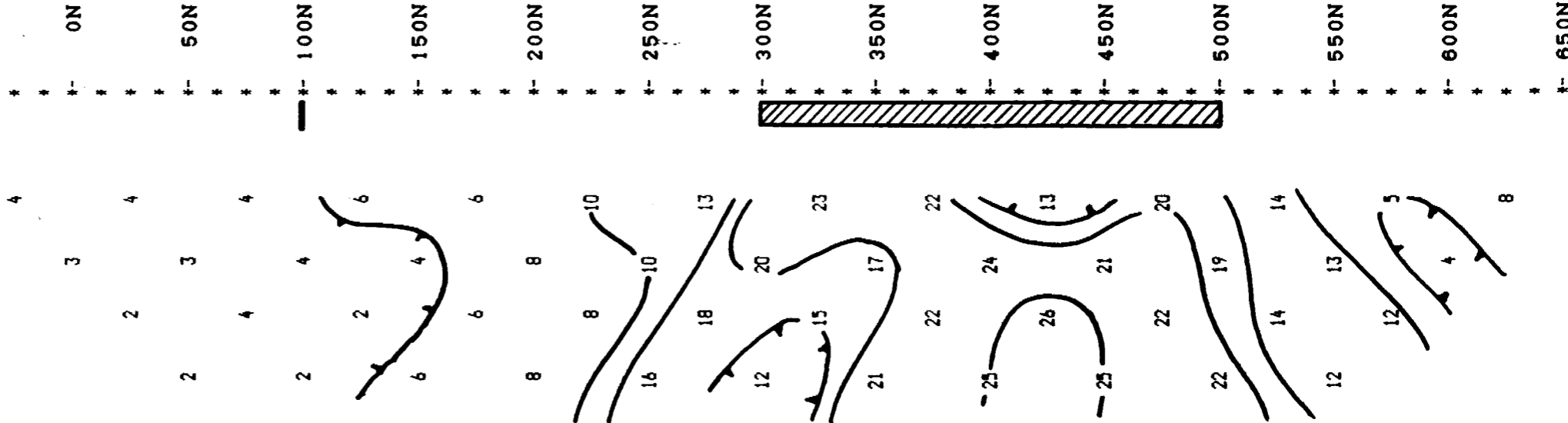
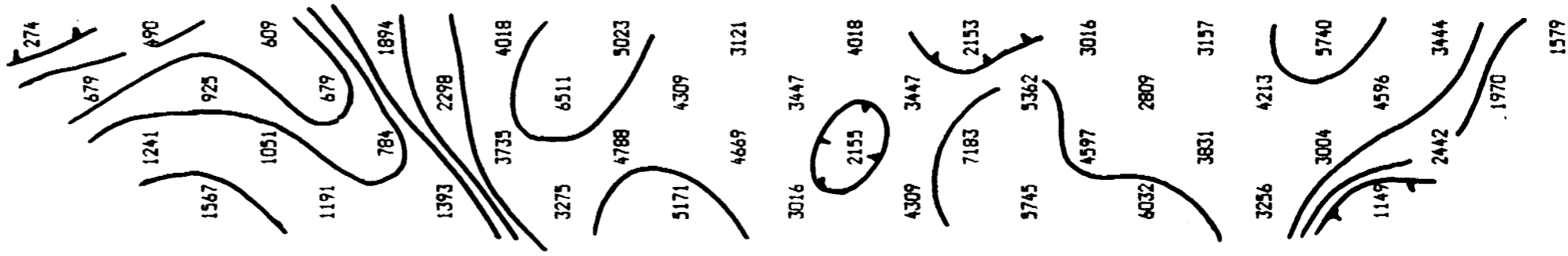
CHARGEABILITY
(milliseconds)

N 3 N 2 N 1

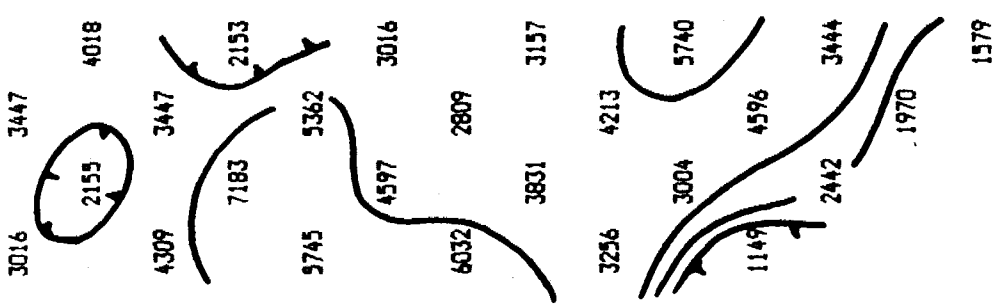
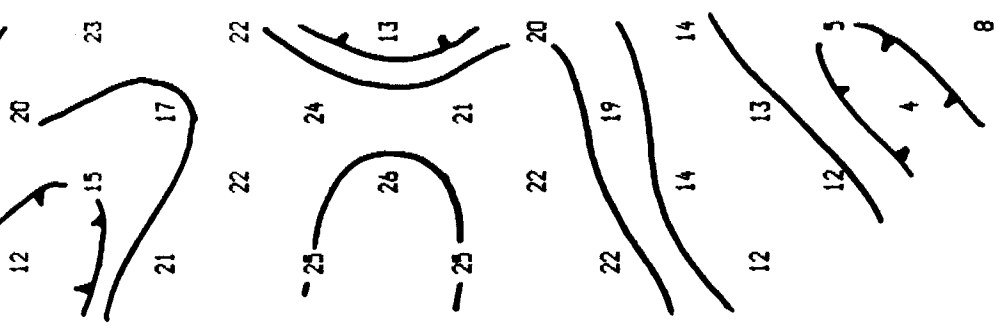
N 3 N 2 N 1

N 4 N 2

N 4 N 2



300N
350N
400N
450N
500N
550N
600N
650N

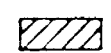


LEGEND

INSTRUMENTS : Rx CRONE N-IV
Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY
RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

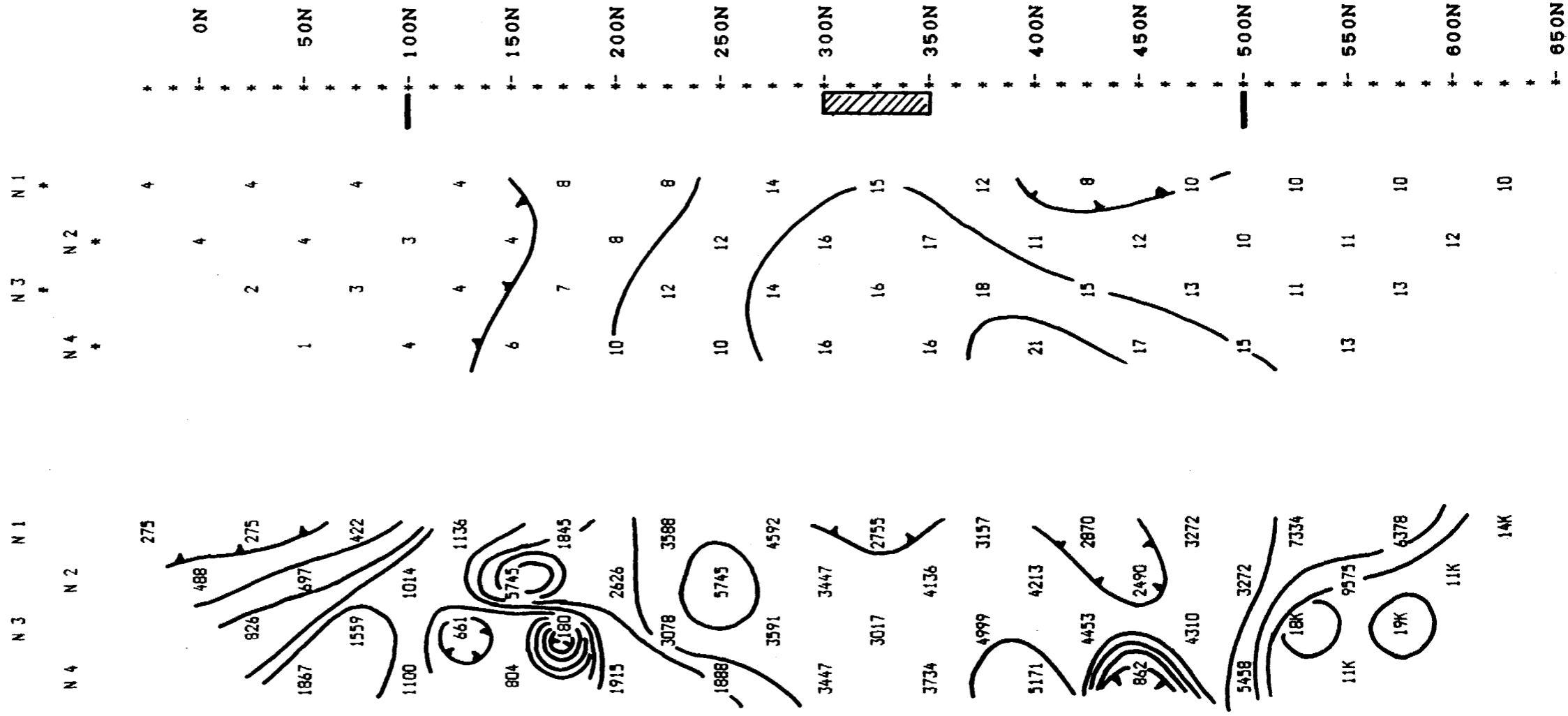
LINE 2+00E

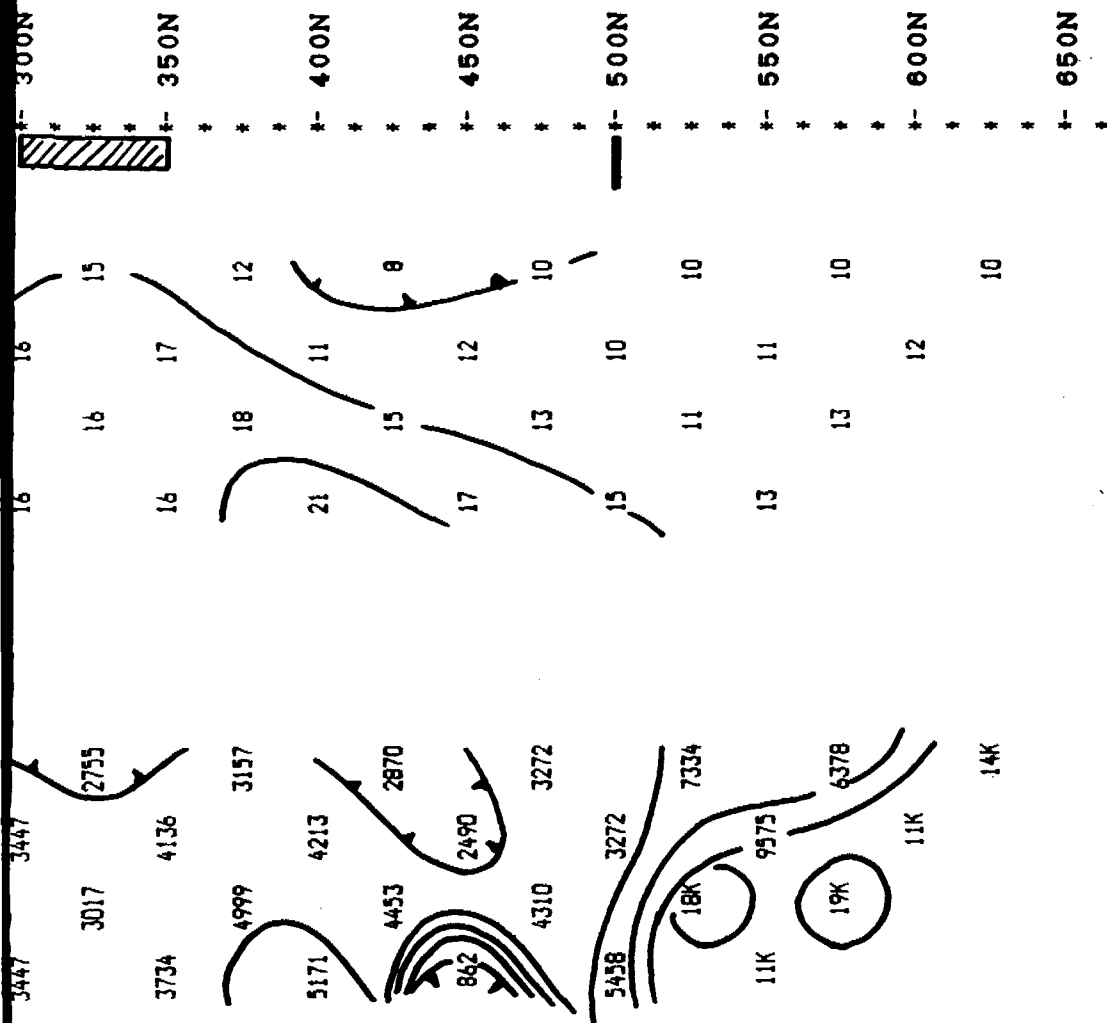
Swayze Area , Porcupine Mining Div., Ontario

OREQUEST

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)





LEGEND

INSTRUMENTS : Rx CRONE N-IV
Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 4+00E

Swayze Area , Porcupine Mining Div., Ontario

OREQUEST



RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

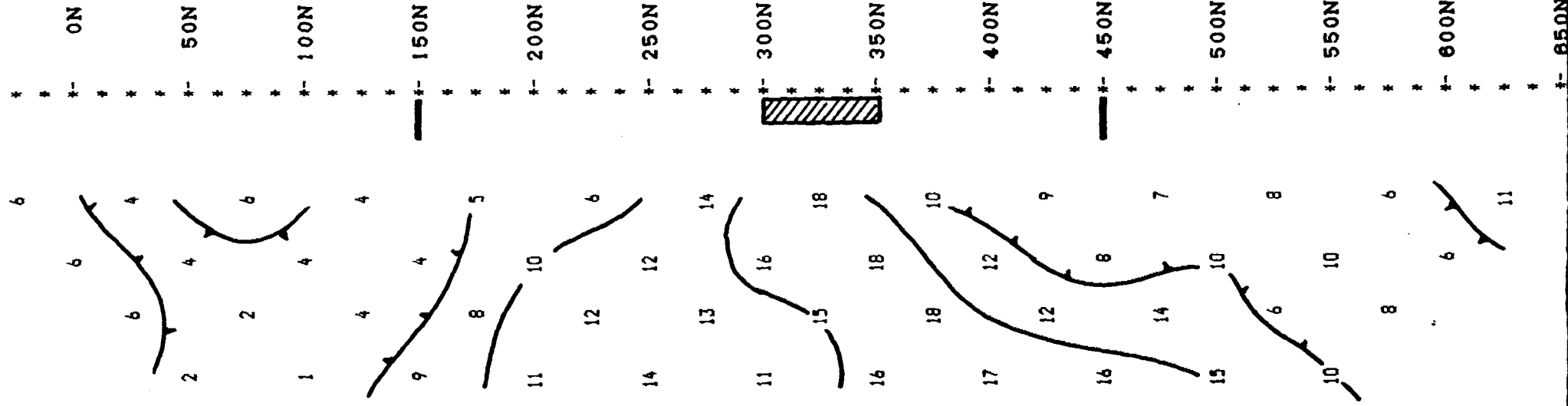
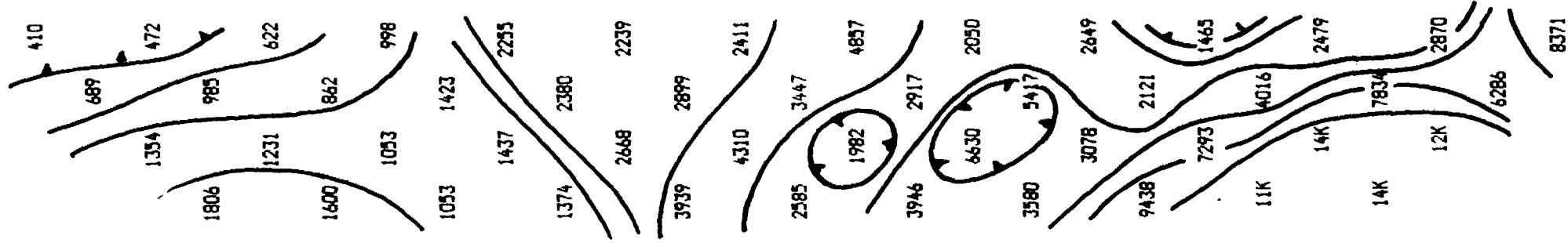
N 3 N 1

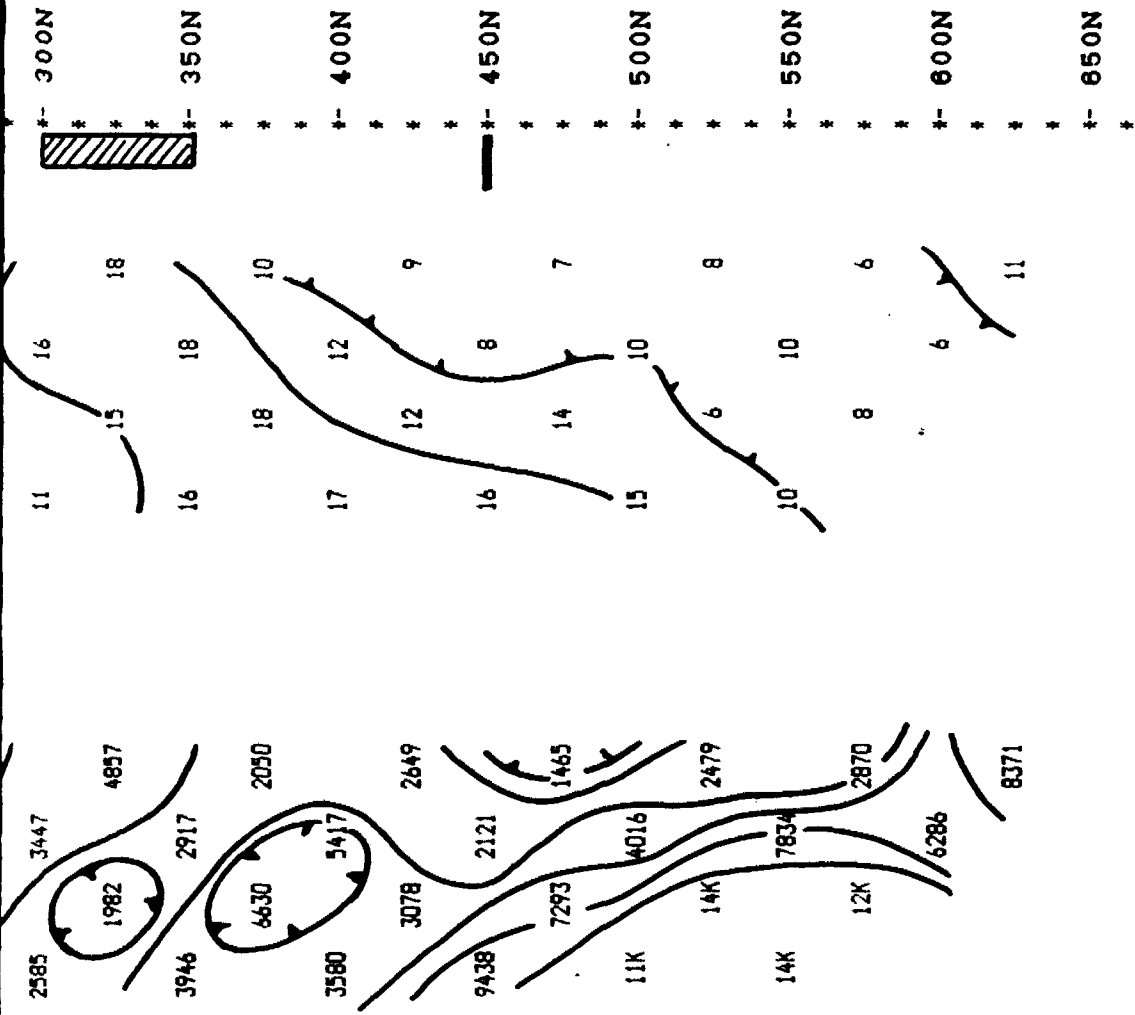
N 1

N 4 N 2

N 2

N 4





LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 6+00E

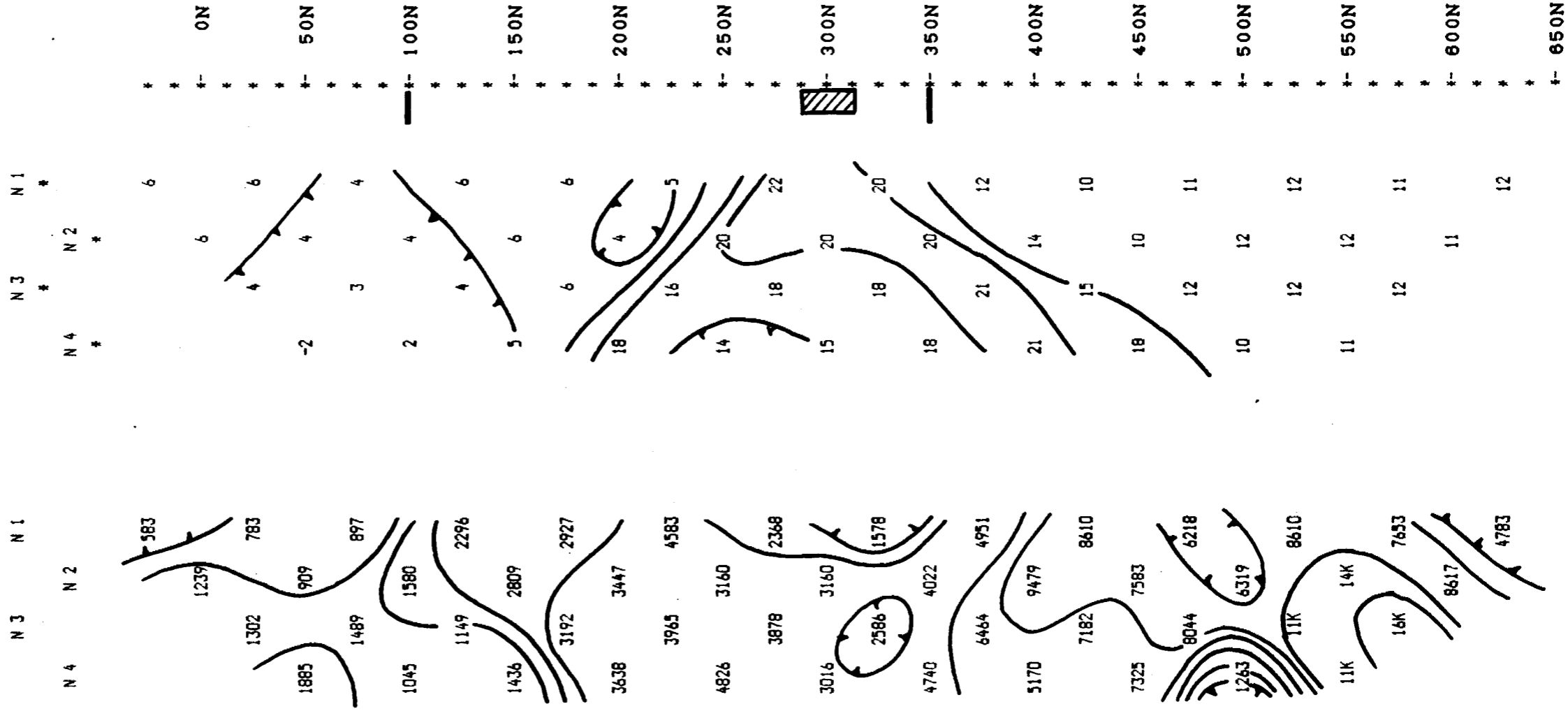
Swayze Area , Porcupine Mining Div., Ontario

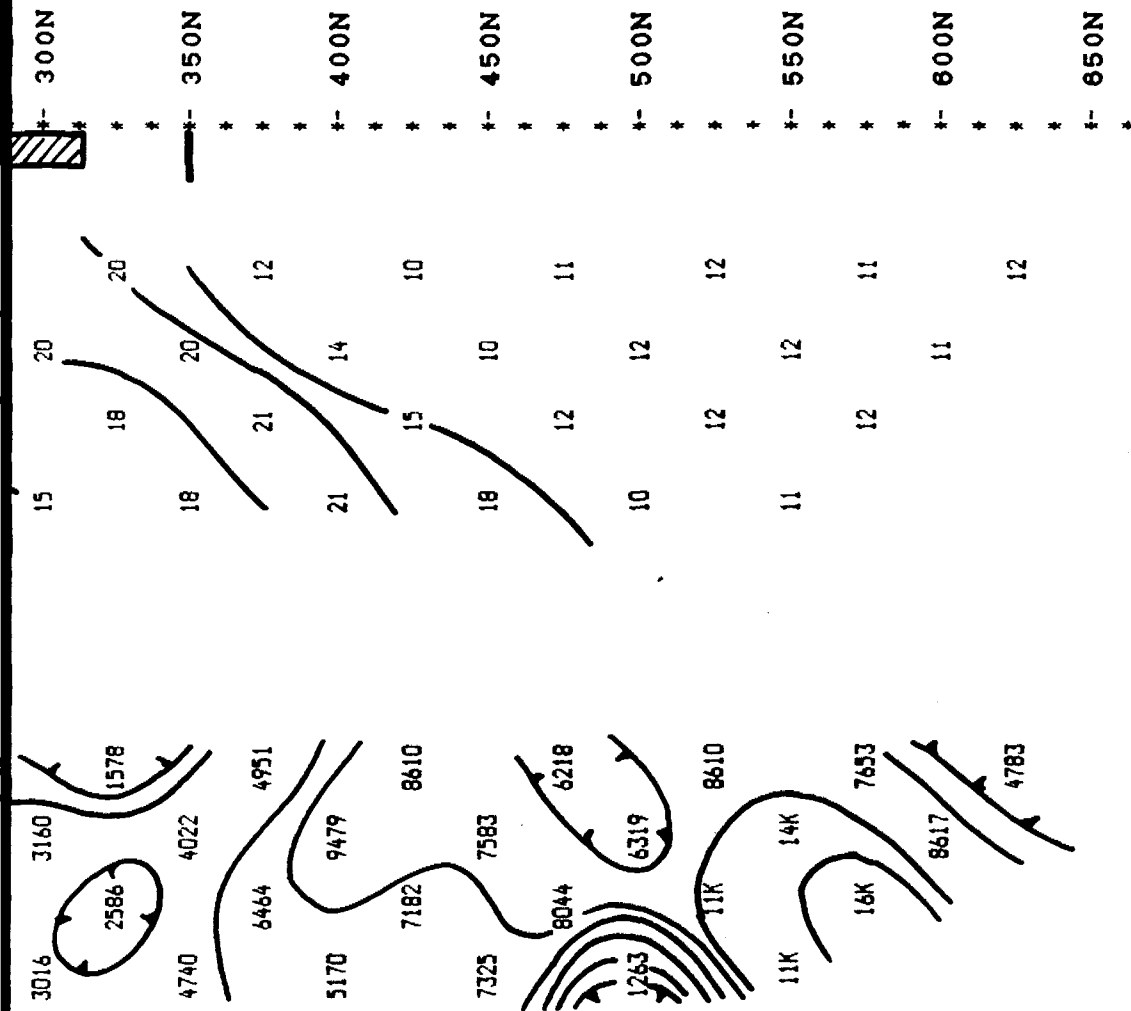
OREQUEST



RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)





LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY



RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 8+00E

Swayze Area, Porcupine Mining Div., Ontario

OREQUEST



RESISTIVITY
(ohm - metres)

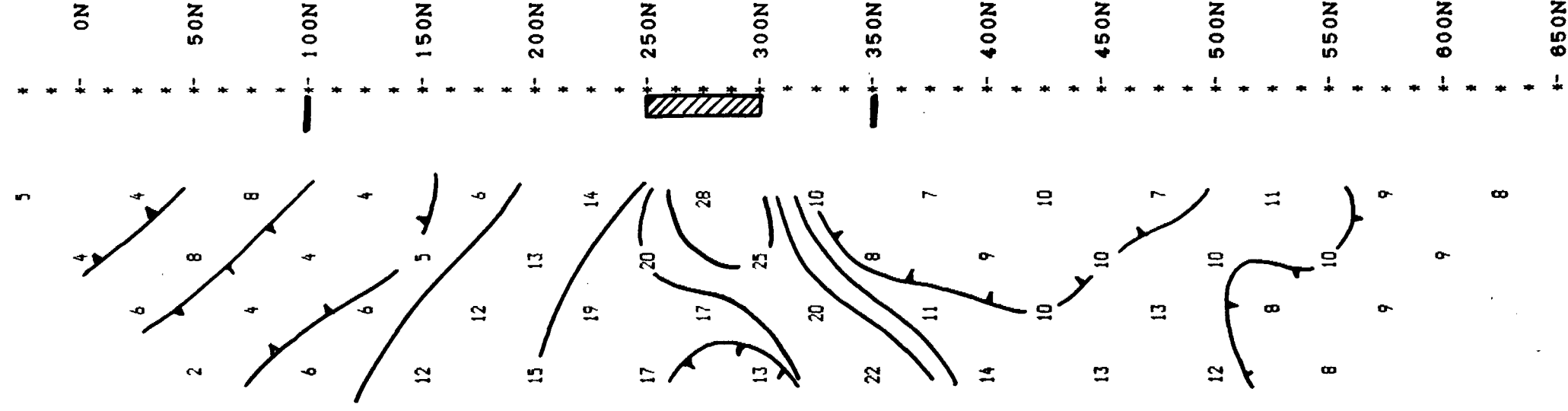
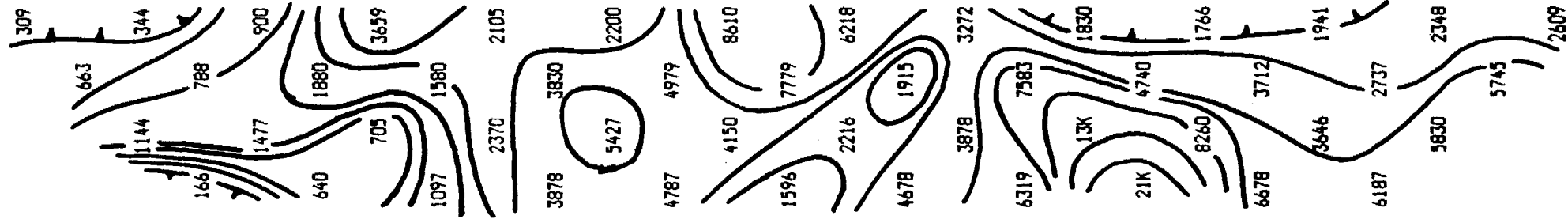
CHARGEABILITY
(milliseconds)

N 3 N 1

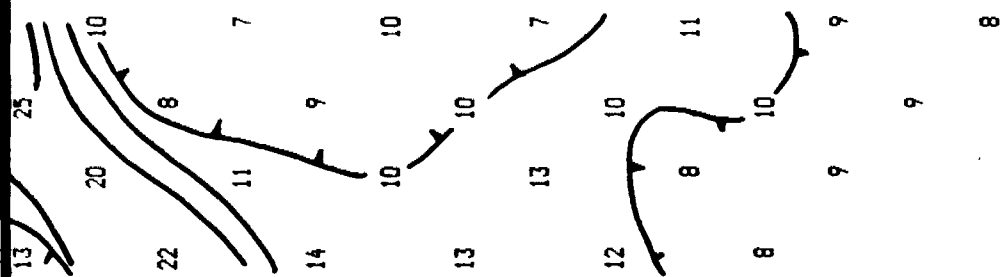
N 3 N 1

N 4 N 2

N 4 N 2



300N
350N
400N
450N
500N
550N
600N
650N



LEGEND

INSTRUMENTS : Rx CRONE N-IV

Tx PHOENIX IPT-1

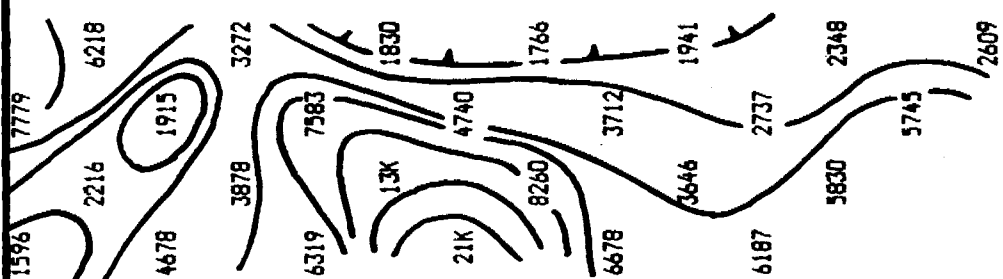
ARRAY : DIPOLE-DIPOLE

ELECTRODE SPACING : 50 FEET



CHARGEABILITY ANOMALY

RESISTIVITY CONTACT



REGAL PETROLEUM LTD.

IP SURVEY

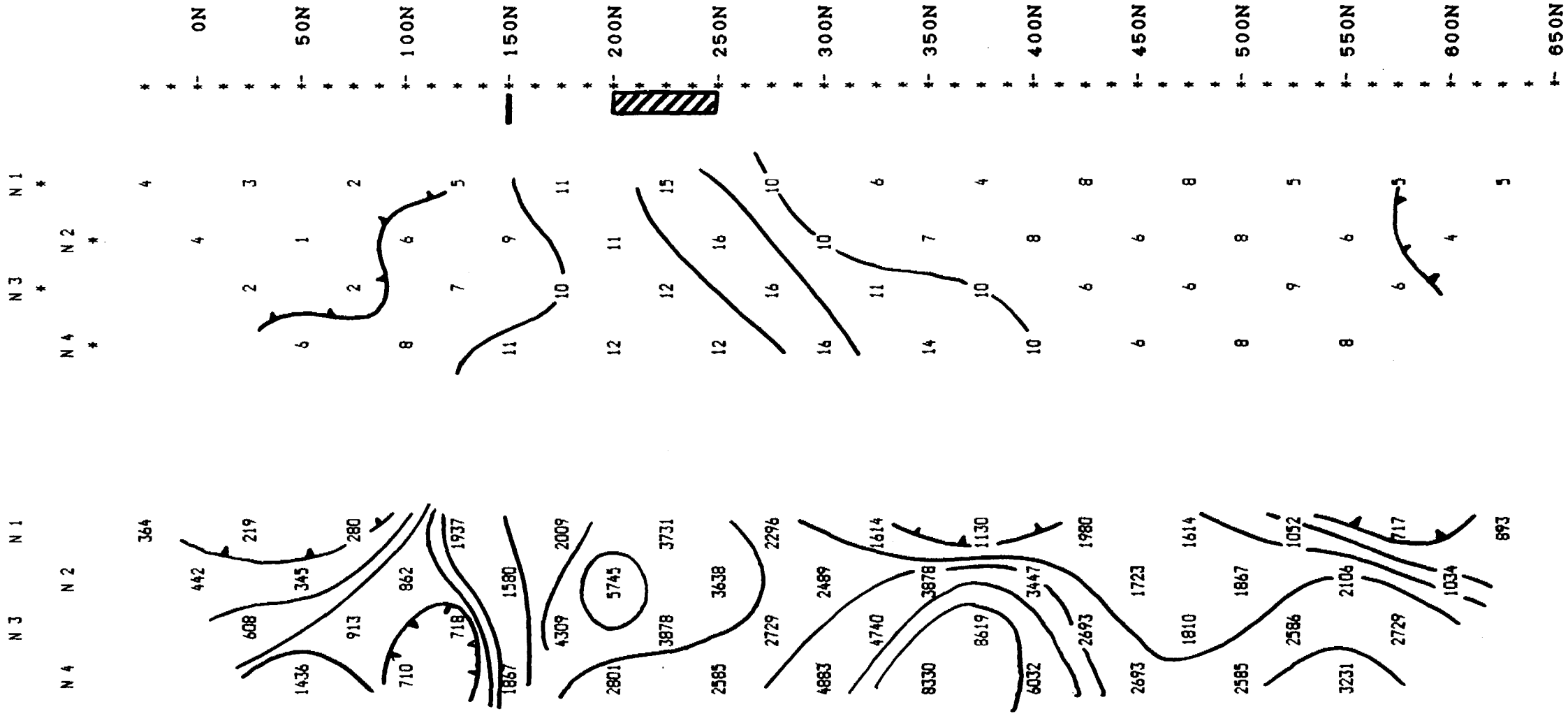
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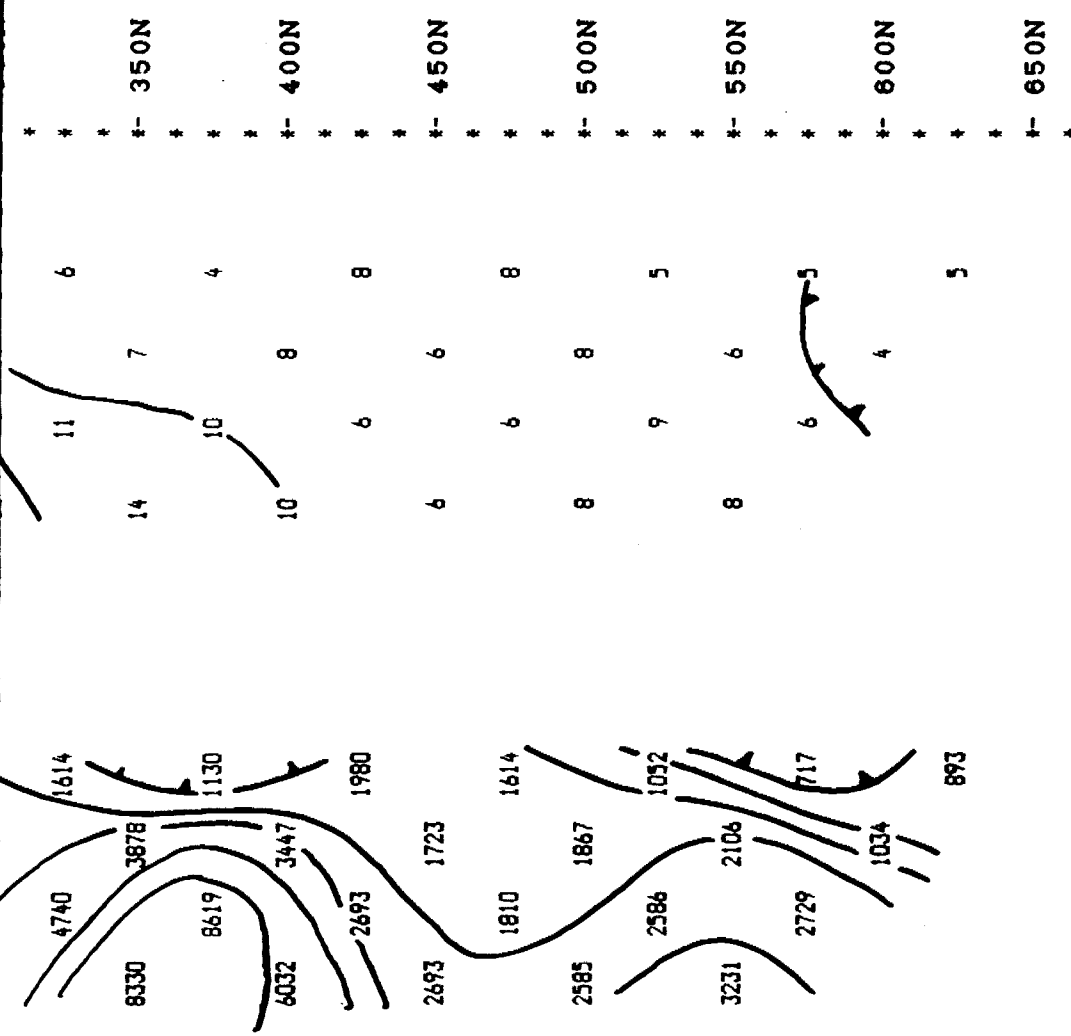
Swayze Area, Porcupine Mining Div., Ontario

OREQUEST

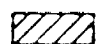

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)





LEGEND

INSTRUMENTS : Rx CRONE N-IV
 Tx PHOENIX IPT-1
 ARRAY : DIPOLE - DIPOLE
 ELECTRODE SPACING : 50 FEET
 CHARGEABILITY ANOMALY
 RESISTIVITY CONTACT

REGAL PETROLEUM LTD.

IP SURVEY

LINE 12+00E

Swcye Area , Porcupine Mining Div., Ontario



RESISTIVITY
(Ohm - metres)

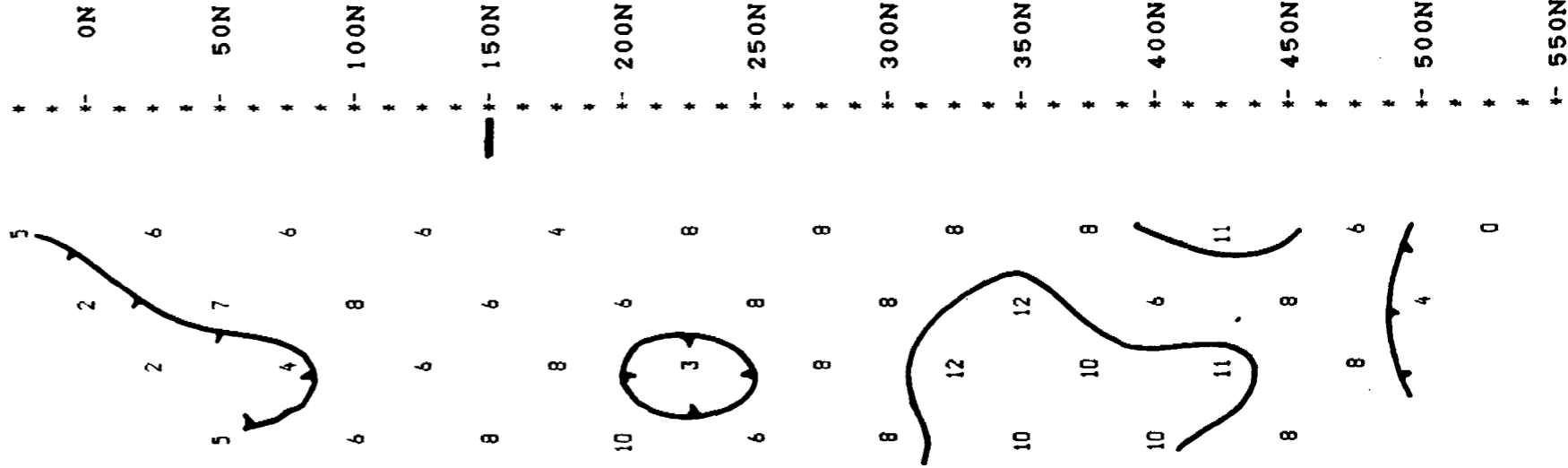
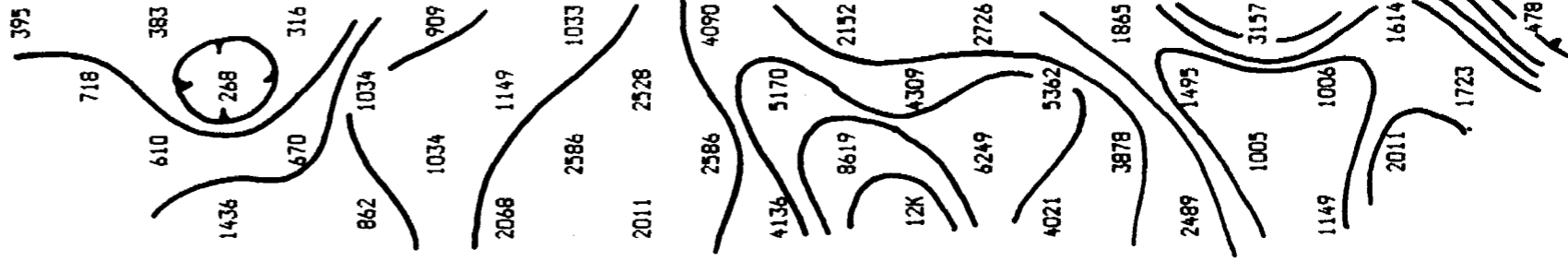
CHARGEABILITY
(milliseconds)

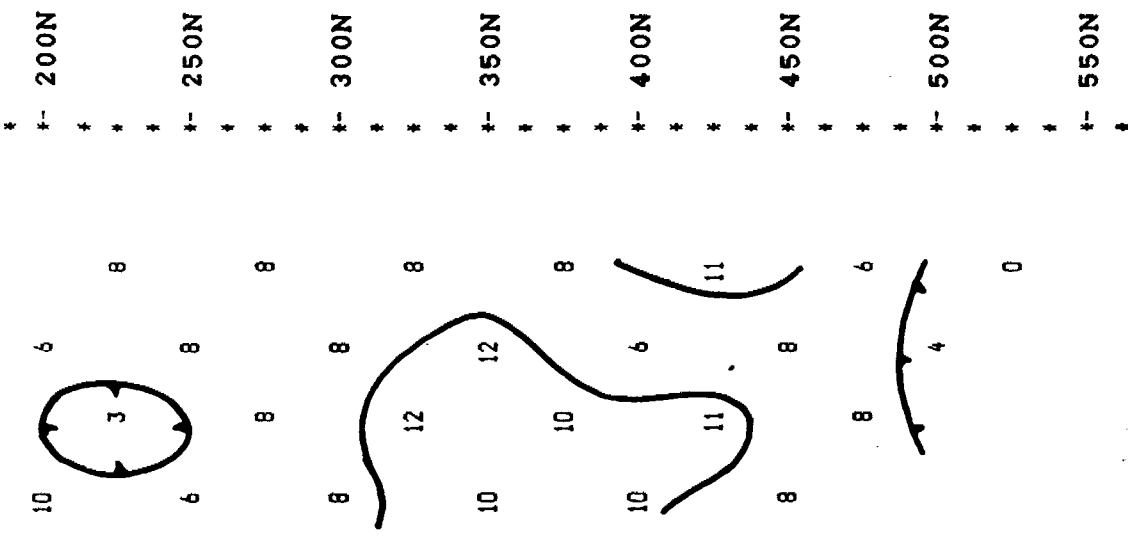
N 3 N 2 N 1

N 3 N 2 N 1



N 4 N 2

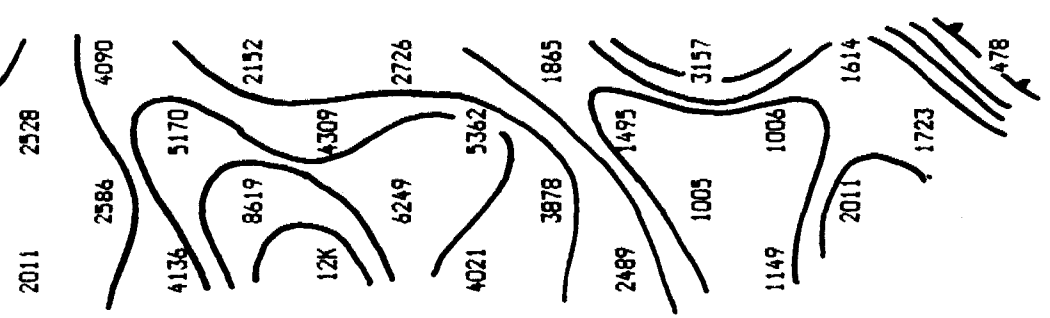
N 4 N 2





LEGEND

INSTRUMENTS : Rx CRONE N-IV
 Tx PHOENIX IPT-1
 ARRAY : DIPOLE-DIPOLE
 ELECTRODE SPACING: 50 FEET
 CHARGEABILITY ANOMALY
 RESISTIVITY CONTACT



REGAL PETROLEUM LTD.

IP SURVEY

LINE 14+00E

Swayze Area , Porcupine Mining Div., Ontario

OREQUEST 

RESISTIVITY
(ohm - metres)

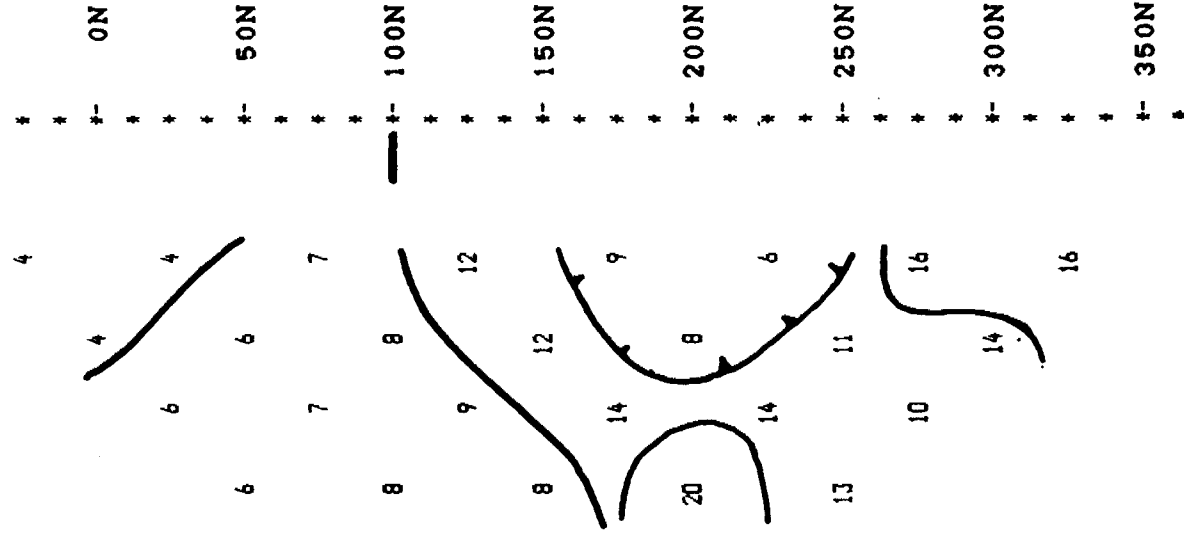
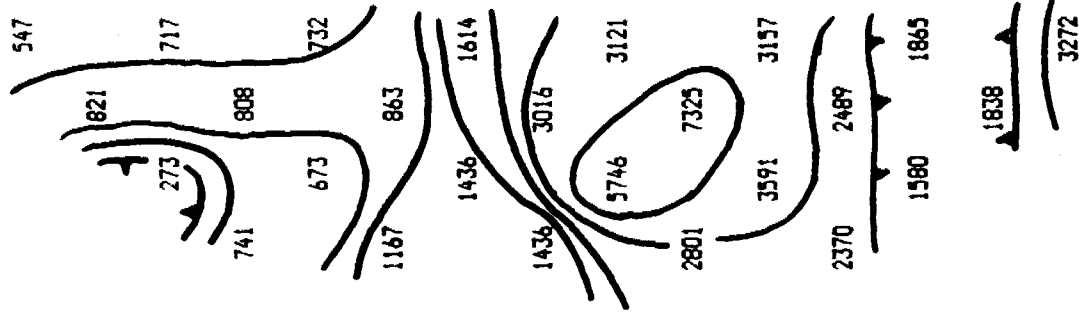
CHARGEABILITY
(milliseconds)

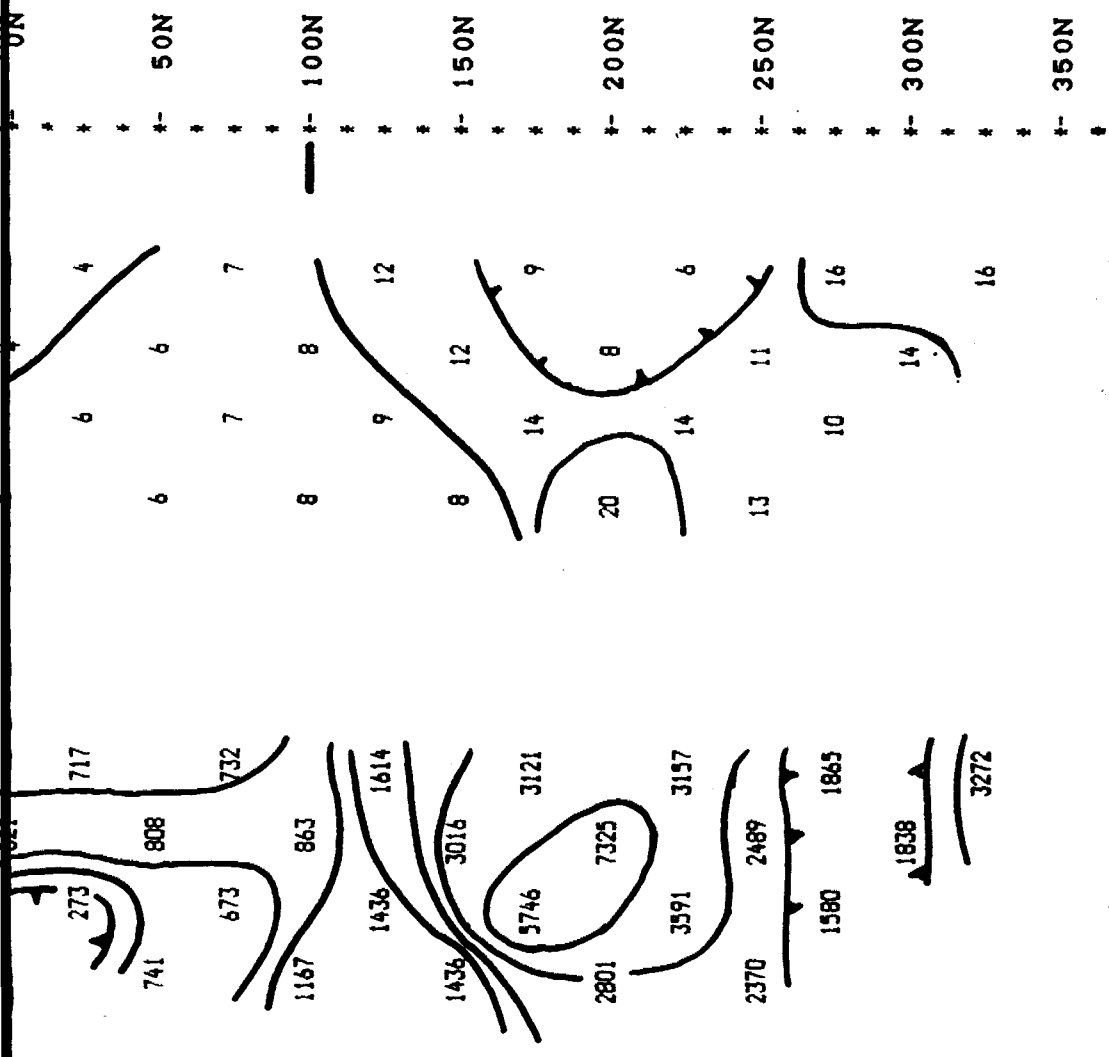
N 3 N 1

N 3 N 1

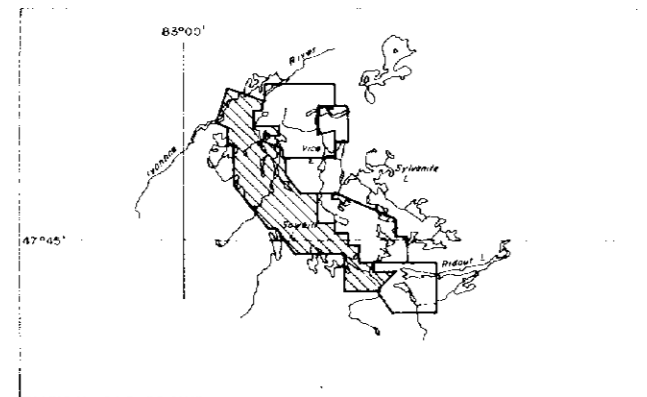
N 4 N 2

N 4 N 2 *



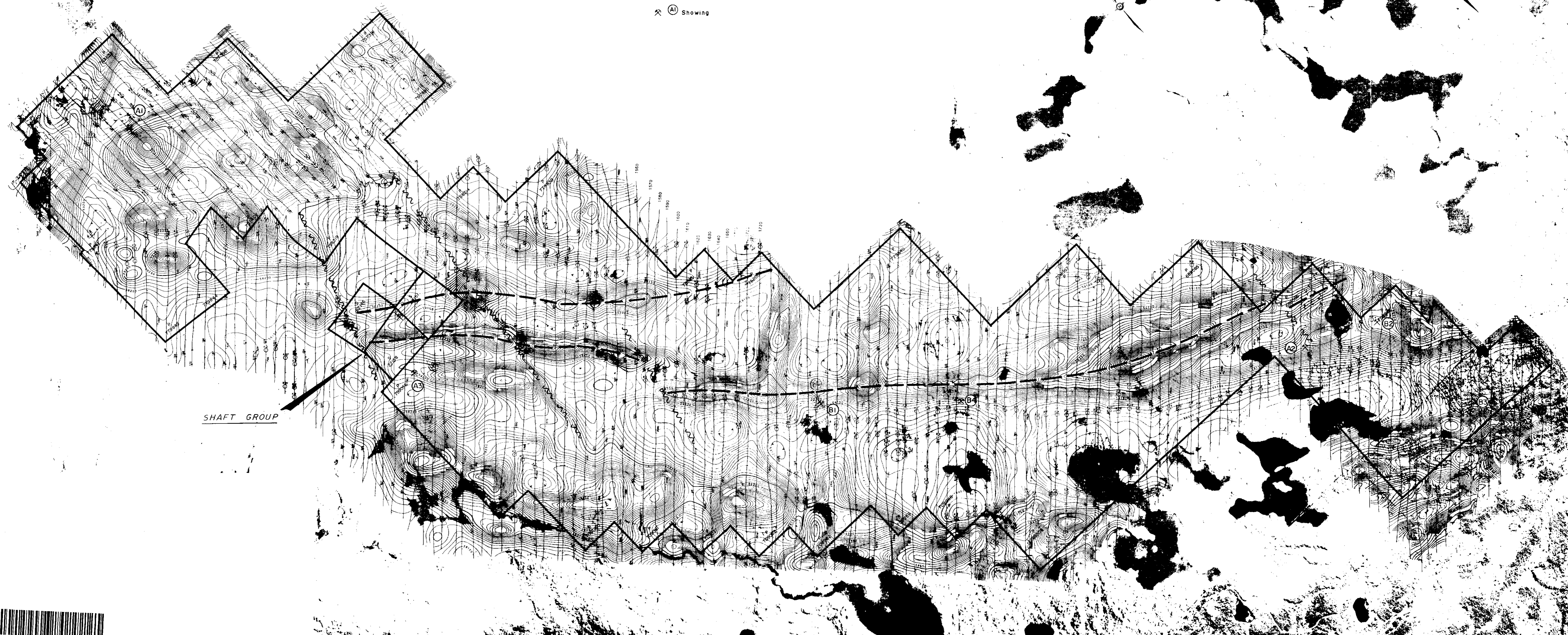


OREQUEST CONSULTANTS LTD.
 REGAL PETROLEUM LTD.
TOTAL FIELD MAGNETIC MAP
 SWAYZE AREA
 ONTARIO
 SCALE
 1:50,000
 DATE: March 1986
 N.T.S. No. 410
 FIG. 32
 AERODAT LIMITED



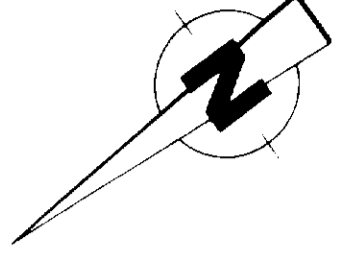
1:50,000
 1:250,000
 1:500,000

- Magnetic lineament (as per Regional Overview)
- Interpreted fault
- Showing



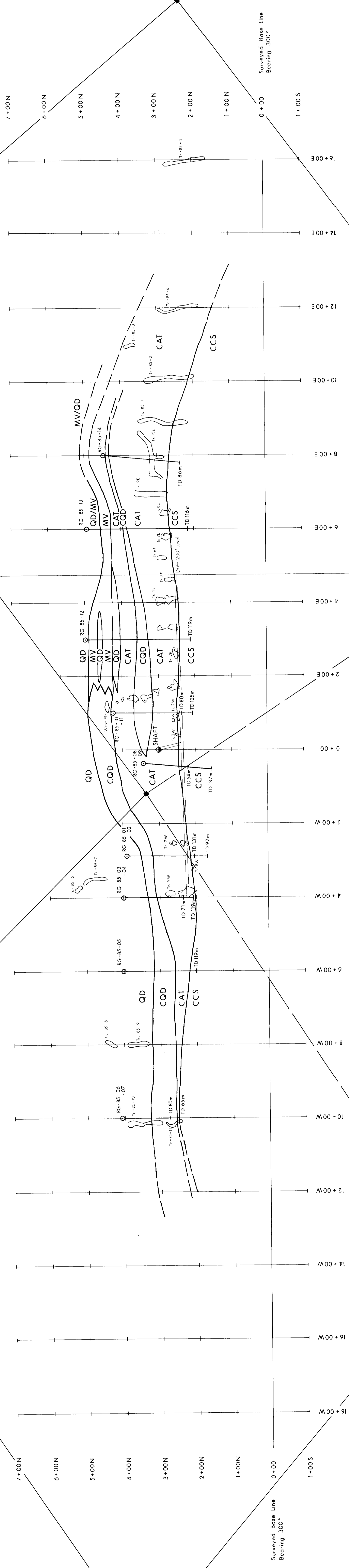
SHAFT GROUP



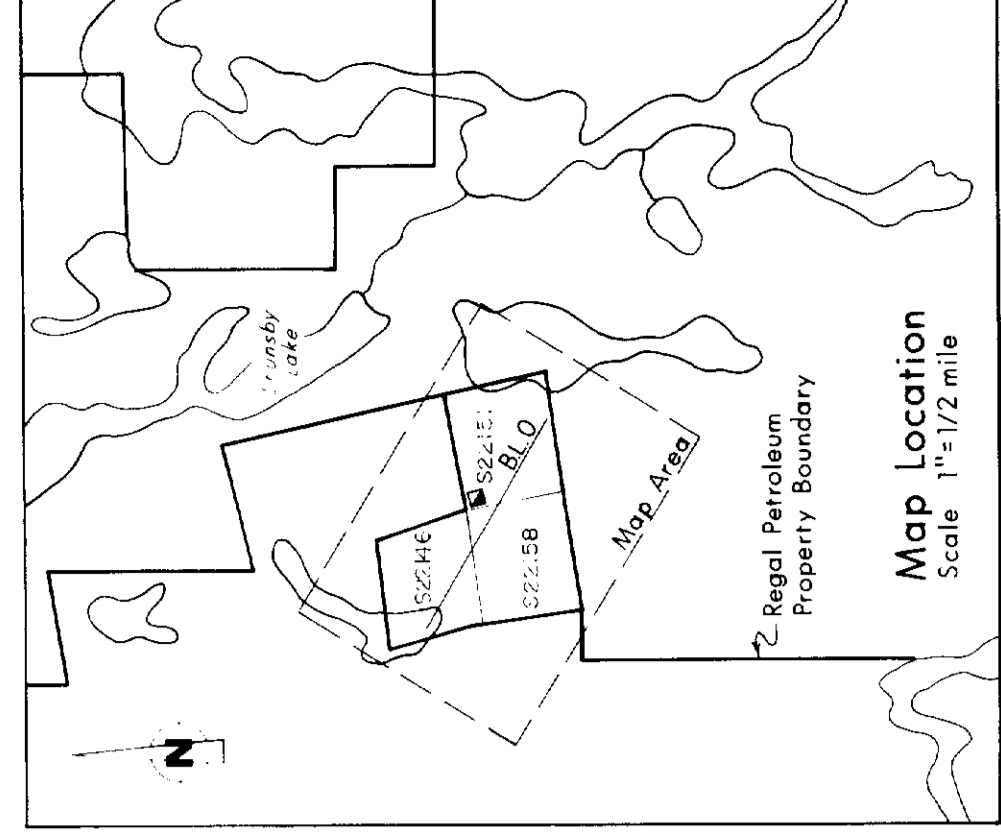


S. 22146

S. 22151



S. 22158



OMRS-208
 63.4735

REGAL PETROLEUM LTD.

GEOLOGY AND
 DRILL HOLE LOCATIONS

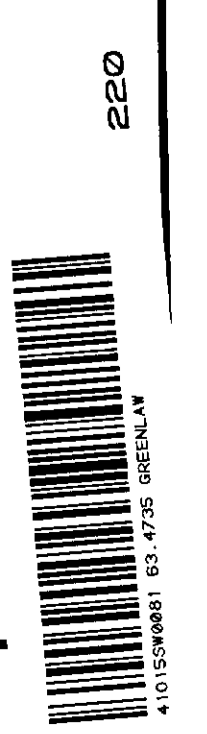
SHAFT GROUP PATENT CLAIMS
 Porcupine Mining Division, Ontario

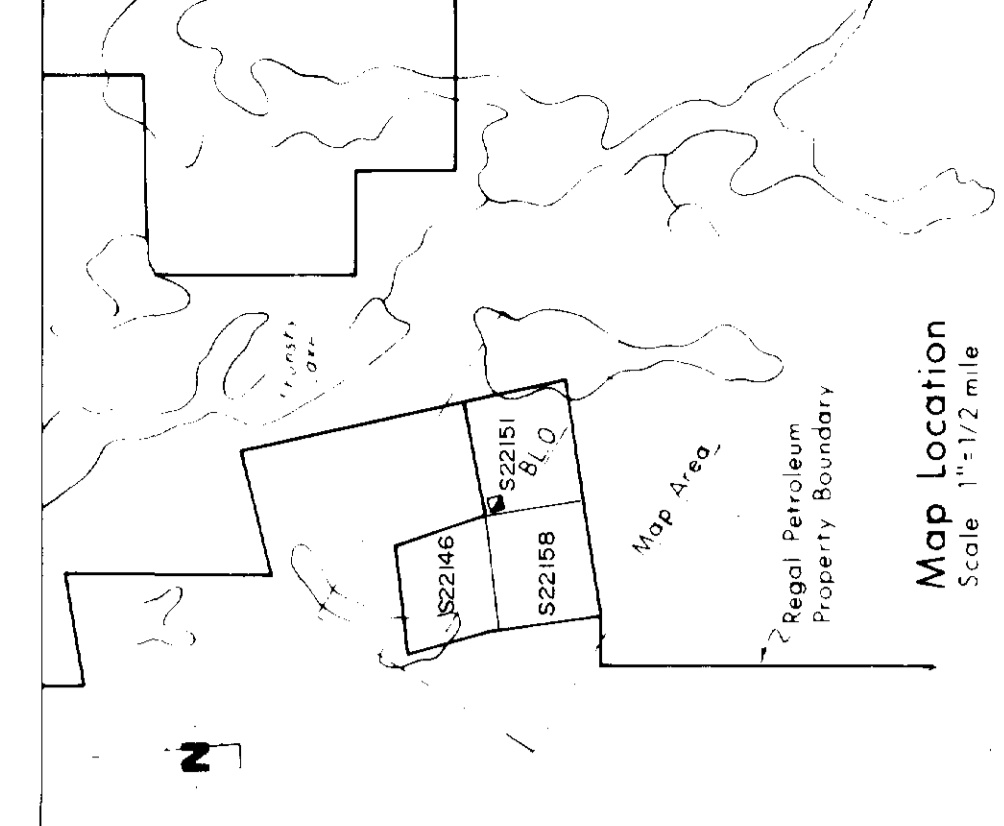
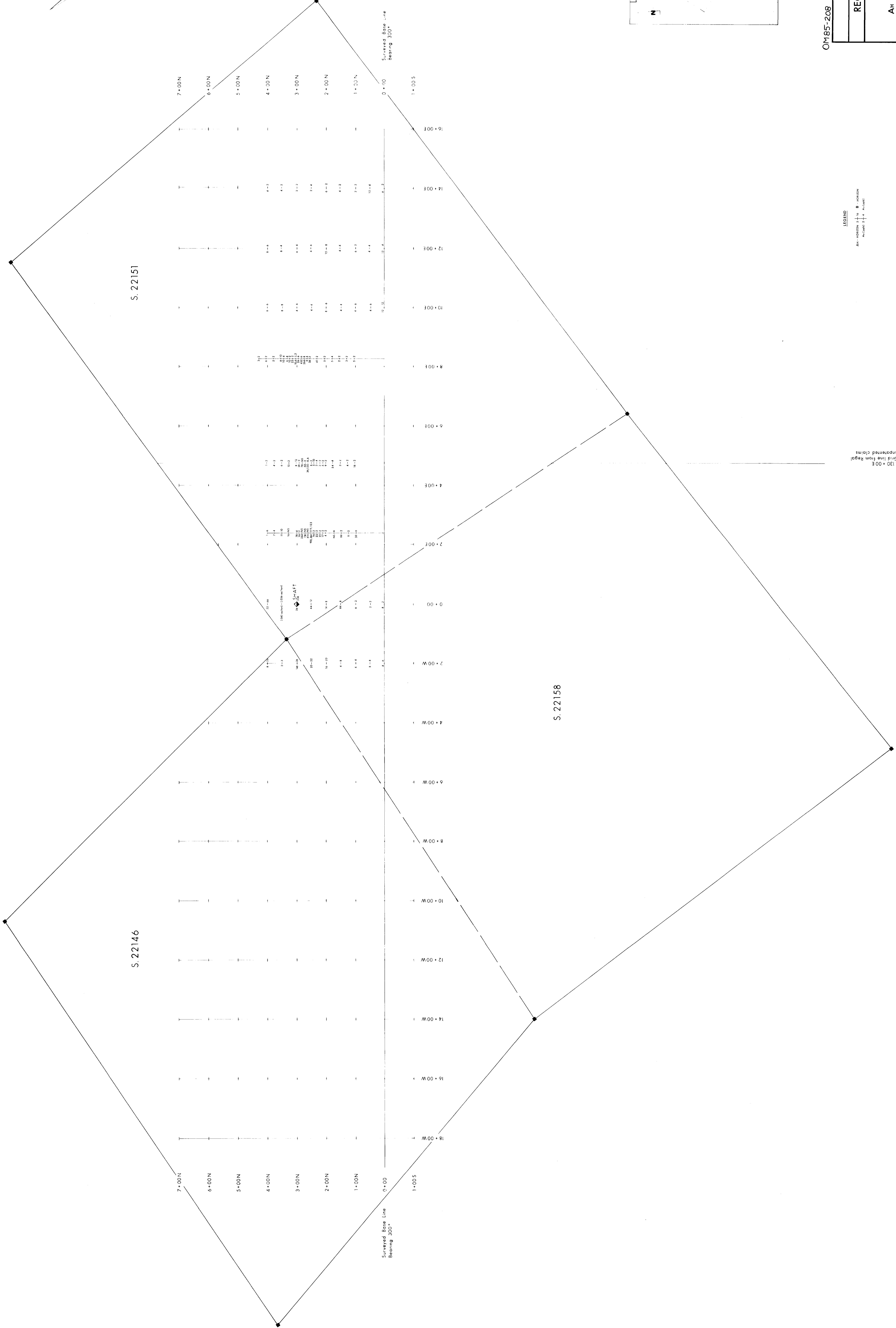
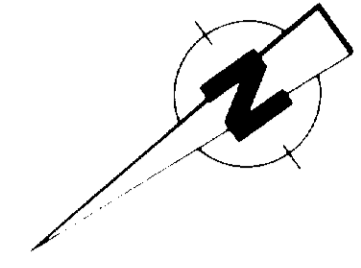
SCALE: 1" = 100 feet DATE: Feb. 1985 FIG. No. 4

LEGEND

- QD : Quartz Diorite
- CGD : Catclastic Quartz Diorite
- CAT : Cataclasite
- MV : Undifferentiated Mafic Volcanic
- CCS : Carbonate Chlorite Schist
 includes chlorite schist
 and mafic tuff
- - - : geological contacts ; defined , projected
- ◆ : shaft

1:00+00E
 Grid line from Regal
 unpatented claims





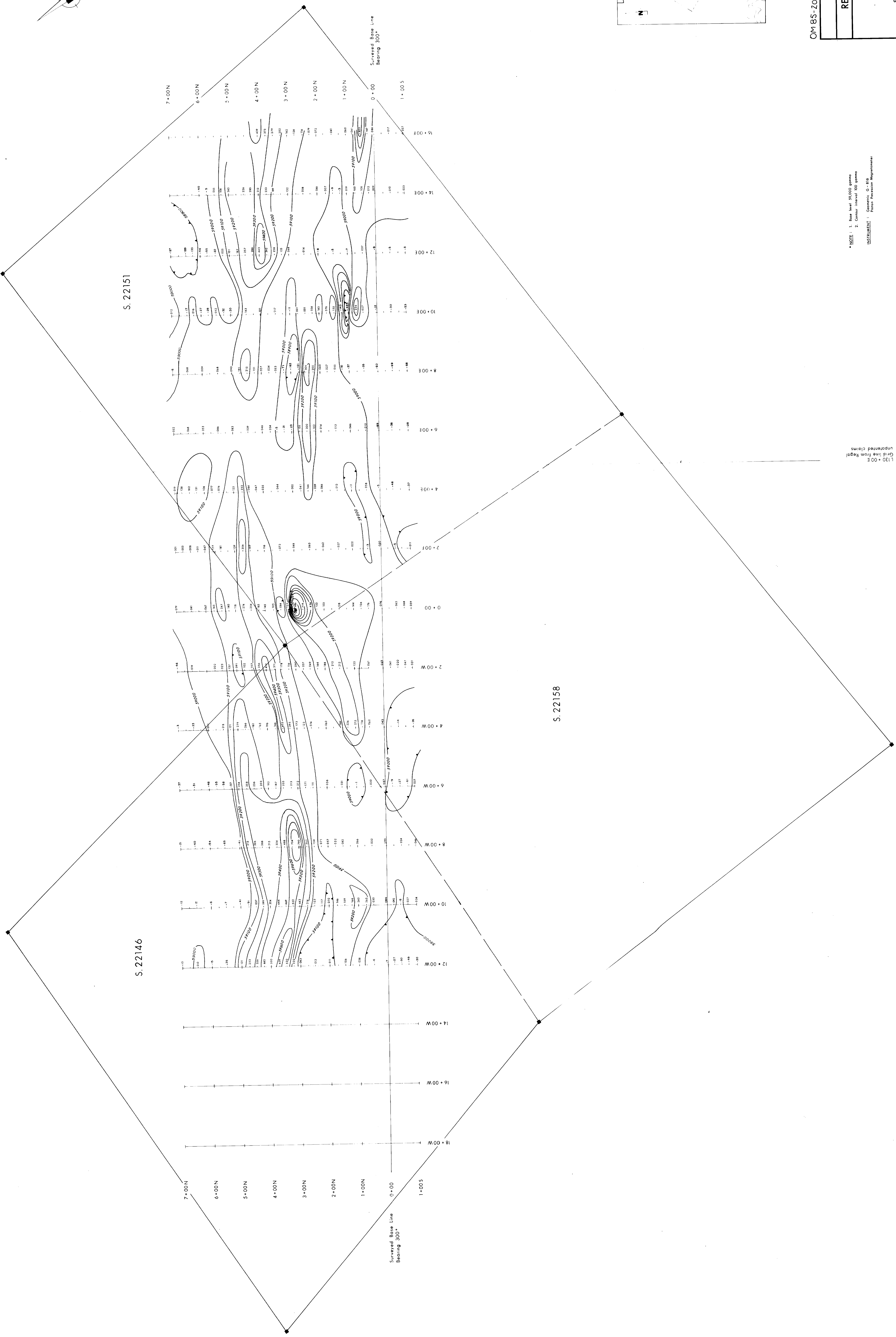
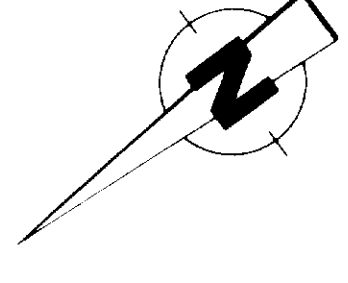
OM85-208
 REQUEST
 63.4135

REGAL PETROLEUM LTD.
 SOIL GEOCHEMISTRY
 AH and B HORIZON - GOLD
 SHAFT GROUP PATENT CLAIMS
 Porcupine Mining Division, Ontario
 SCALE: 1" = 100 feet
 DATE: Feb. 16, 1986
 PG. No. 5

LEGEND
 A - location of B - location
 C - location of D - location

Grid lines from Regal
 unpatented claims

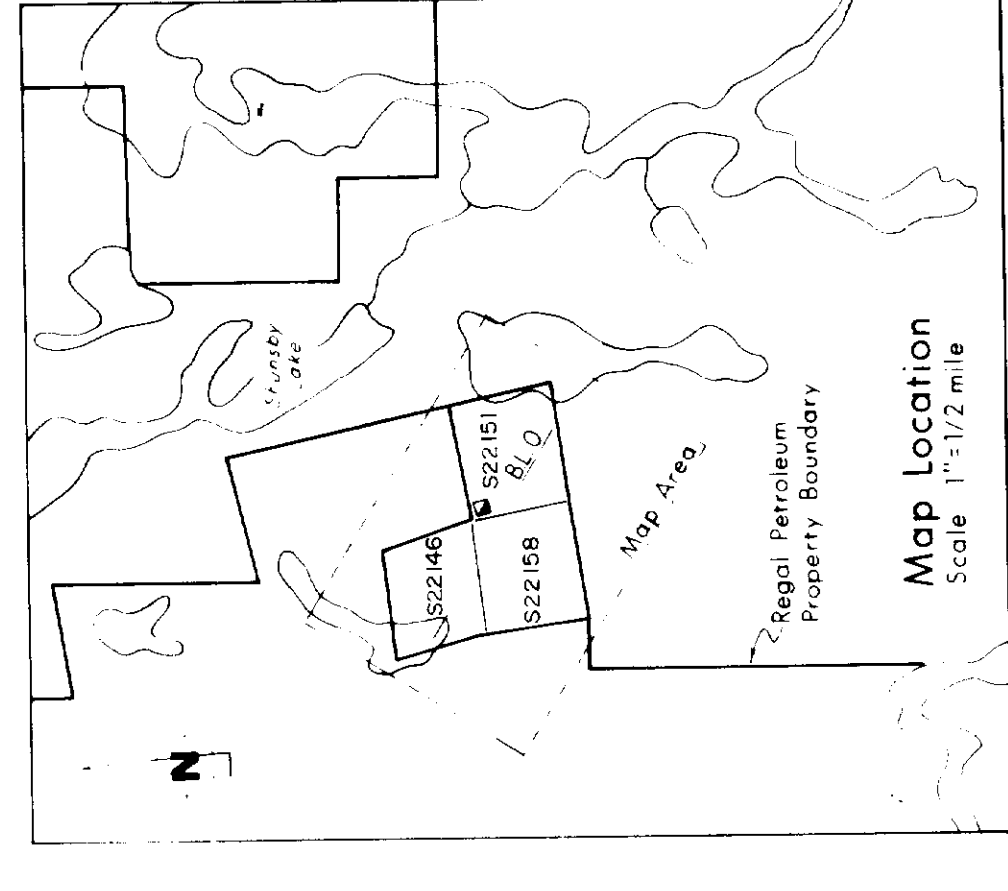




NOTE: 1. Read field 90,000 gamma
 2. Contour interval 100 gamma

INSTRUMENTS: Geomac G-114
 Proton Precision Magnetometer

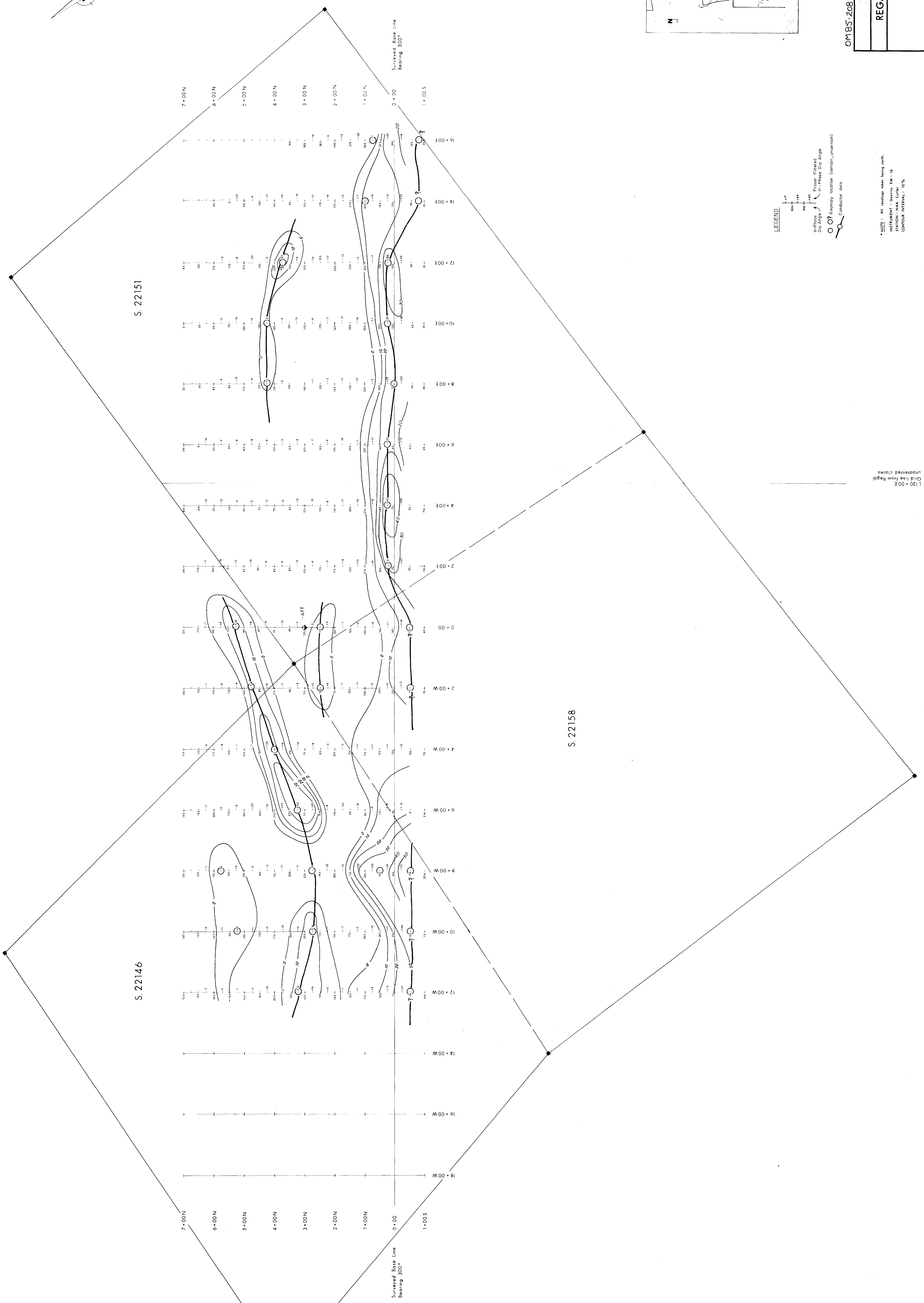
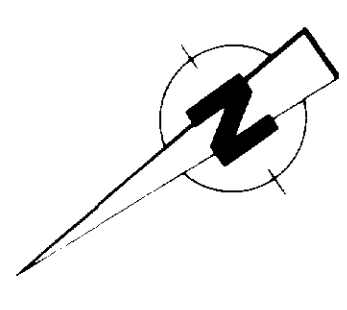
1:30+00E
 Grid line from Regal
 unpatented claim



OM BS-208
 0 50 100 200 Feet
 63.4735

CREQUEST
 REGAL PETROLEUM LTD.
 MAGNETIC SURVEY
 SHAFT GROUP PATENT CLAIMS
 Porcupine Mining Division, Ontario
 SCALE: 1" = 100 feet | DATE: Feb. 16, 1986 | FIG No. 6





S. 22151

S. 22146

S. 22158

Surveyed Base Line
Bearing 300°

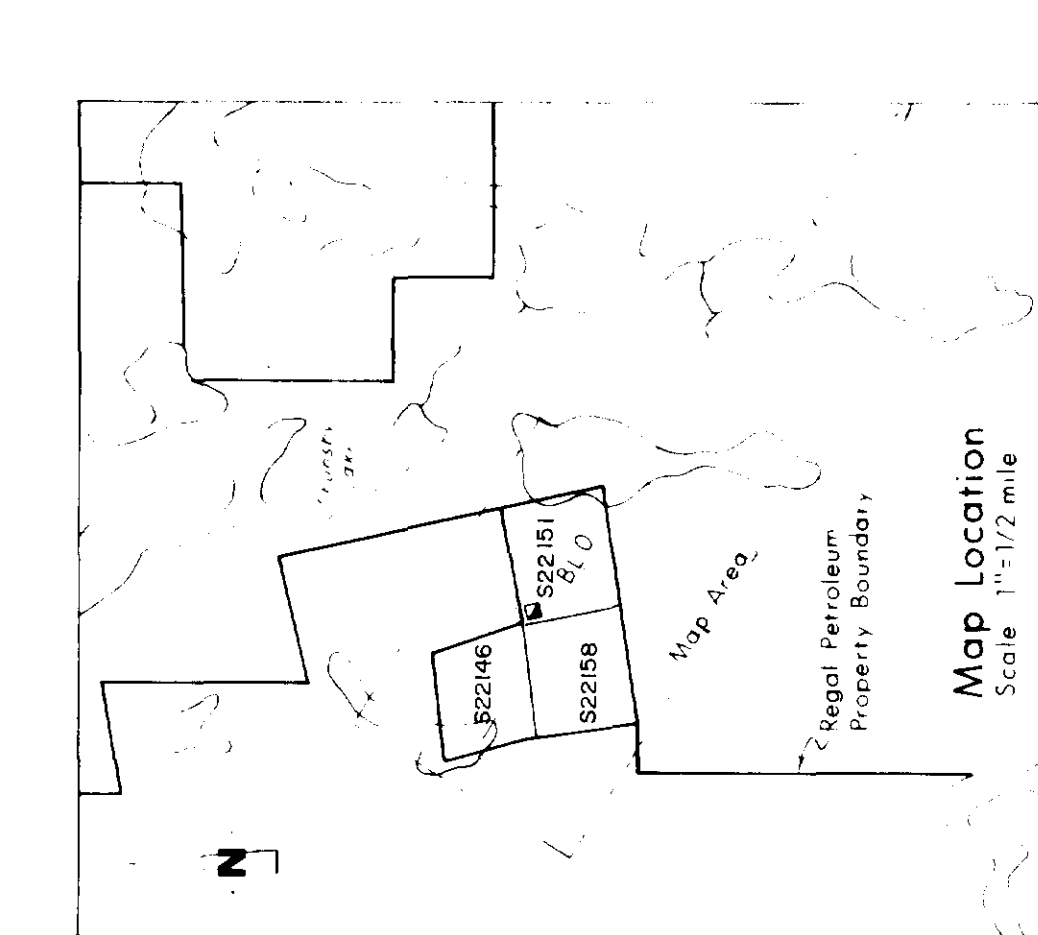
Surveyed Base Line
Bearing 300°

LEGEND

- In-Phase Dip Angle
- Phase Filtered In-Phase Dip Angle
- Anomaly location (contour, undermount)
- Contour axis

1:100,000
Grid line from Regal
unprinted claims

*NOTE: All readings were taken with
a GARMIN GPS
STATION 1000
CONTOUR INTERVAL: 10'



OM 85-208
0 50 100 200 Feet
03-4735

REGAL PETROLEUM LTD.
VLF - EM SURVEY
SHAET GROUP PATENT CLAIMS
Porcupine Mining Division, Ontario
SCALE: 1" = 100 feet | DATE: Feb. 15, 1996 | PAGE: 7



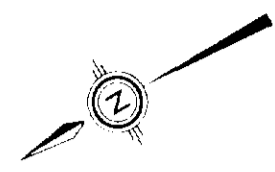
L 2 + 00 W

4 N

3 N

2 N

1 N



RG - 85 - 01, 02

TD 131.0 m

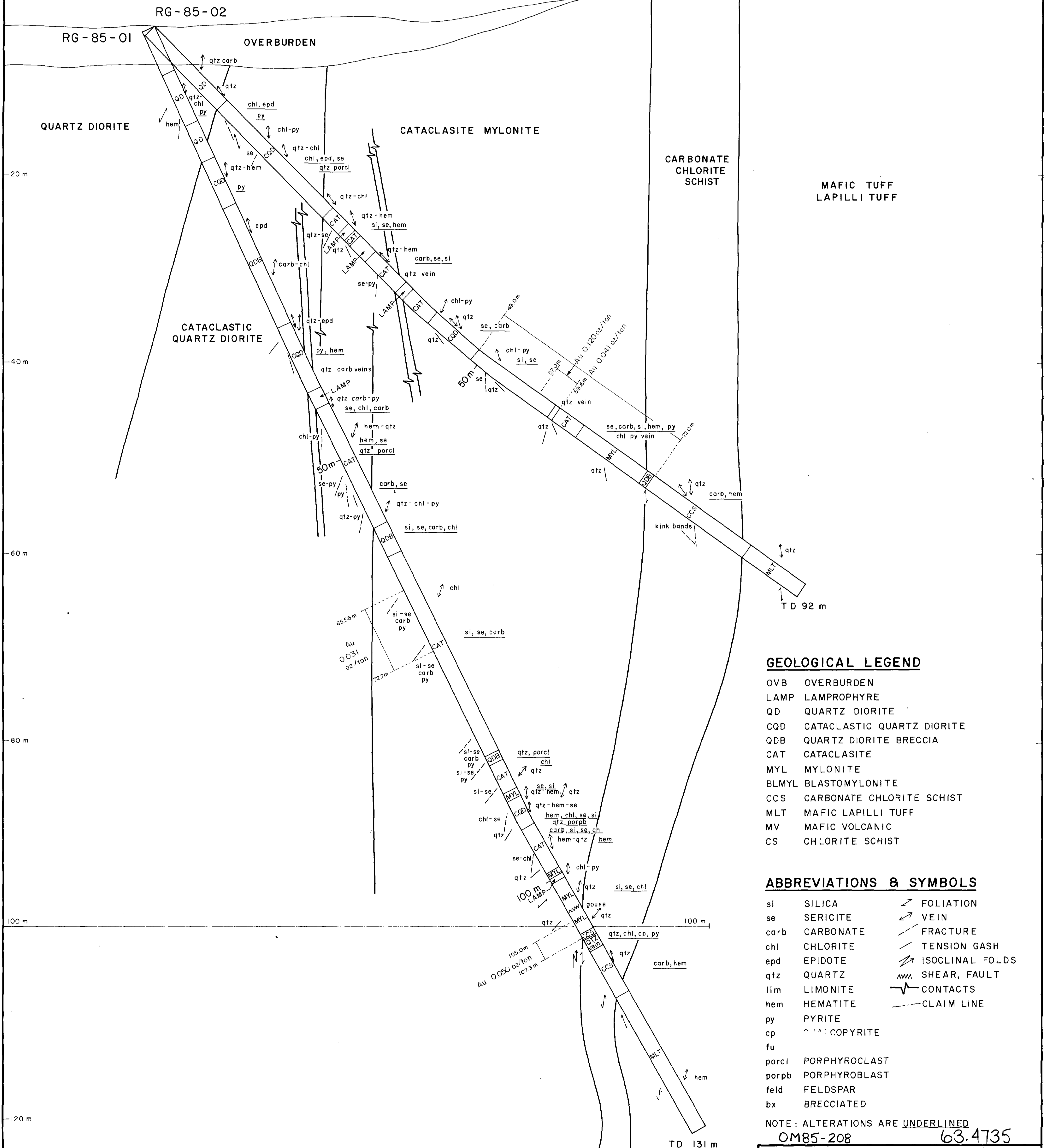
TD 92.0 m

PLAN VIEW
SCALE - 1:200

SECTION LOOKING AT 120°

0 m (shaft elevation)

(shaft elevation) 0 m



GEOLOGICAL LEGEND

- OVB OVERBURDEN
- LAMP LAMPROPHYRE
- QD QUARTZ DIORITE
- CQD CATACLASTIC QUARTZ DIORITE
- QDB QUARTZ DIORITE BRECCIA
- CAT CATACLASITE
- MYL MYLONITE
- BLMYL BLASTOMYLONITE
- CCS CARBONATE CHLORITE SCHIST
- MLT MAFIC LAPILLI TUFF
- MV MAFIC VOLCANIC
- CS CHLORITE SCHIST

ABBREVIATIONS & SYMBOLS

- | | | | |
|-------|---------------|--|-----------------|
| si | SILICA | | FOLIATION |
| se | SERICITE | | VEIN |
| carb | CARBONATE | | FRACTURE |
| chl | CHLORITE | | TENSION GASH |
| epd | EPIDOTE | | ISOCLINAL FOLDS |
| qtz | QUARTZ | | SHEAR, FAULT |
| lim | LIMONITE | | CONTACTS |
| hem | HEMATITE | | CLAIM LINE |
| py | PYRITE | | |
| fu | COPYRITE | | |
| porcl | PORPHYROCLAST | | |
| porpb | PORPHYROBLAST | | |
| feld | FELDSPAR | | |
| bx | BRECCIATED | | |

NOTE: ALTERATIONS ARE UNDERLINED
OM85-208 63.4735

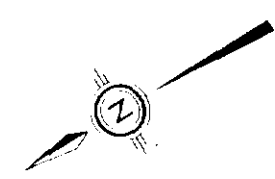
OREQUEST

REGAL PETROLEUM LTD.

DDH SECTION
RG - 85 - 01, 02

DATE	SCALE	NTS	FIGURE NO.
FEB., 1986	1:200	41 0/15	23





L 6 + 00 W RG - 85 - 05

TD 119.0 m

4 N

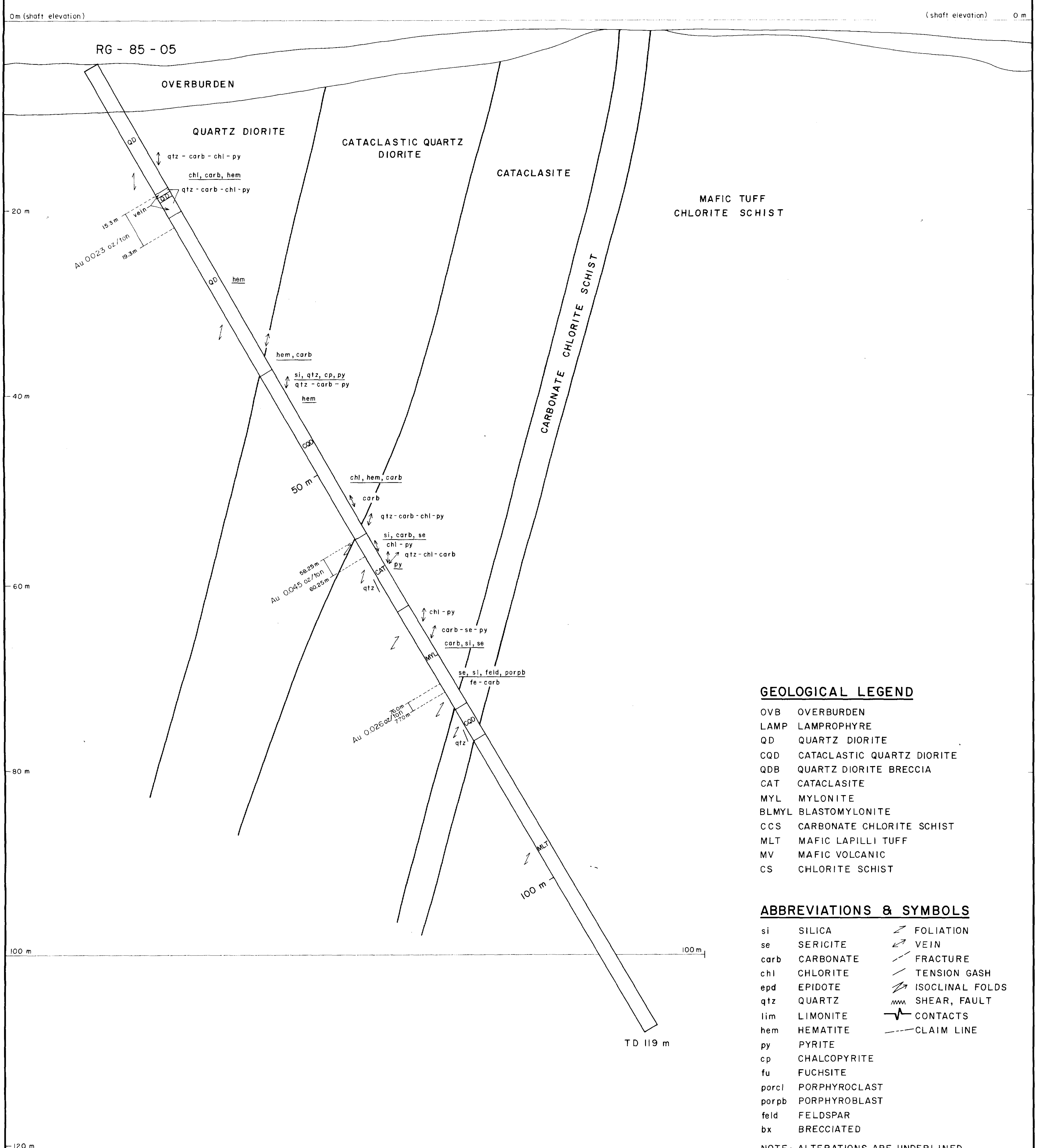
3 N

2 N

1
1 N

PLAN VIEW
SCALE - 1 : 200

SECTION LOOKING AT 120°



GEOLOGICAL LEGEND

- OVB OVERBURDEN
- LAMP LAMPROPHYRE
- QD QUARTZ DIORITE
- CQD CATACLASTIC QUARTZ DIORITE
- QDB QUARTZ DIORITE BRECCIA
- CAT CATACLASITE
- MYL MYLONITE
- BLMYL BLASTOMYLONITE
- CCS CARBONATE CHLORITE SCHIST
- MLT MAFIC LAPILLI TUFF
- MV MAFIC VOLCANIC
- CS CHLORITE SCHIST

ABBREVIATIONS & SYMBOLS

- | | | | |
|-------|---------------|---|-----------------|
| si | SILICA | Z | FOLIATION |
| se | SERICITE | V | VEIN |
| carb | CARBONATE | F | FRACTURE |
| chl | CHLORITE | I | TENSION GASH |
| epd | EPIDOTE | M | ISOCLINAL FOLDS |
| qtz | QUARTZ | C | SHEAR, FAULT |
| lim | LIMONITE | | CONTACTS |
| hem | HEMATITE | | CLAIM LINE |
| py | PYRITE | | |
| cp | CHALCOPYRITE | | |
| fu | FUCHSITE | | |
| porcl | PORPHYROCLAST | | |
| porpb | PORPHYROBLAST | | |
| feld | FELDSPAR | | |
| bx | BRECCIATED | | |

NOTE: ALTERATIONS ARE UNDERLINED
OM85-208 63.4735

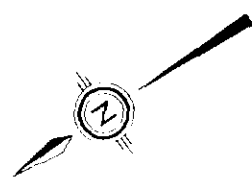
OREQUEST

REGAL PETROLEUM LTD.

DDH SECTION
RG - 85 - 05

DATE	SCALE	NTS	FIGURE NO.
FEB., 1986	1:200	41 0/15	25

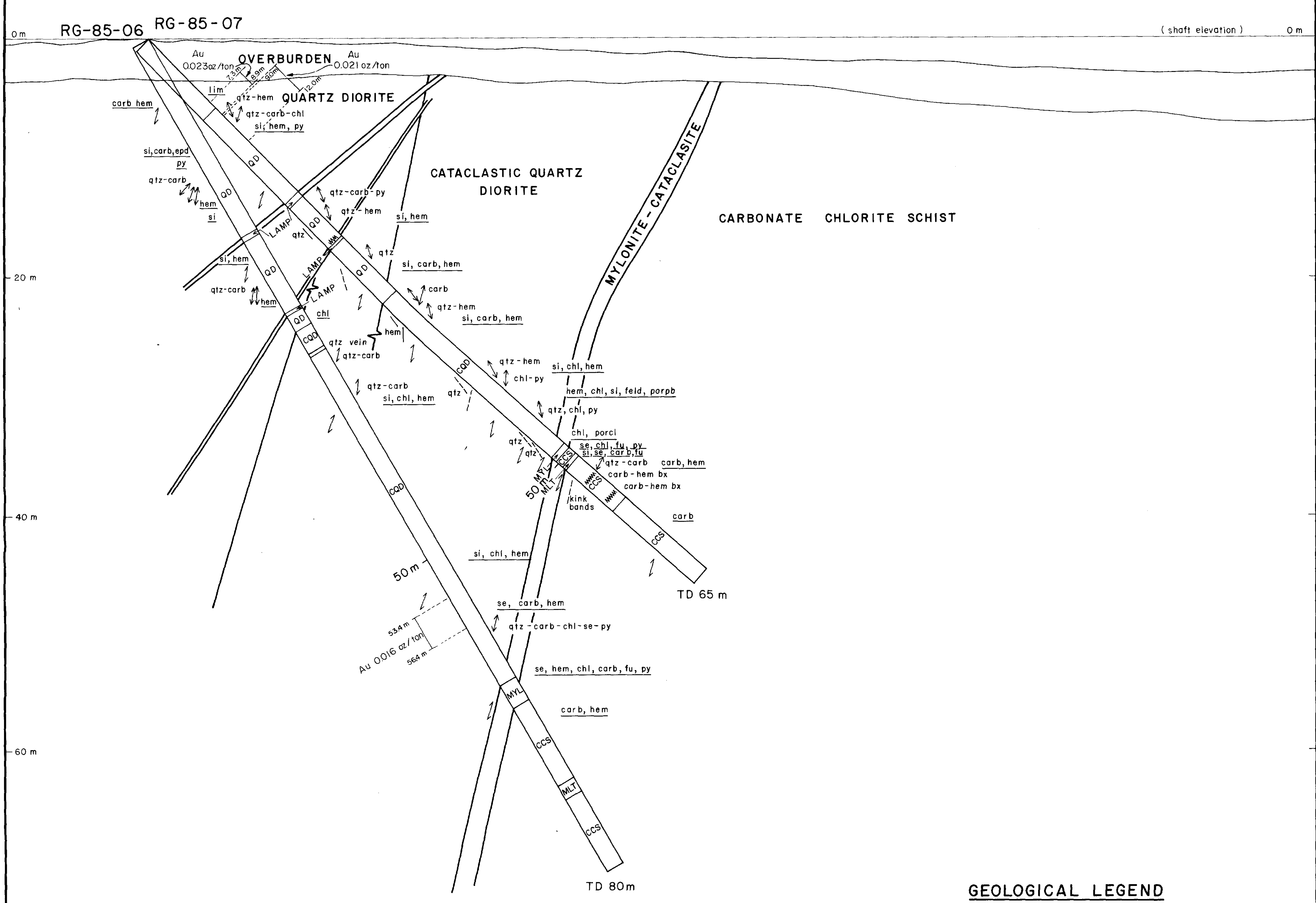




L 10 + 00 W RG - 85 - 06, 07 TD 80.0 m TD 65.0 m 4 N 3 N 2 N 1 N

PLAN VIEW
SCALE - 1: 200

SECTION LOOKING AT 120°



GEOLOGICAL LEGEND

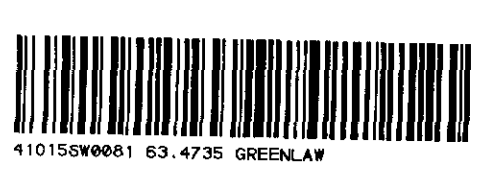
- OVB OVERBURDEN
- LAMP LAMPROPHYRE
- QD QUARTZ DIORITE
- CQD CATACLASTIC QUARTZ DIORITE
- QDB QUARTZ DIORITE BRECCIA
- CAT CATACLASITE
- MYL MYLONITE
- BLMYL BLASTOMYLONITE
- CCS CARBONATE CHLORITE SCHIST
- MLT MAFIC LAPILLI TUFF
- MV MAFIC VOLCANIC
- CS CHLORITE SCHIST

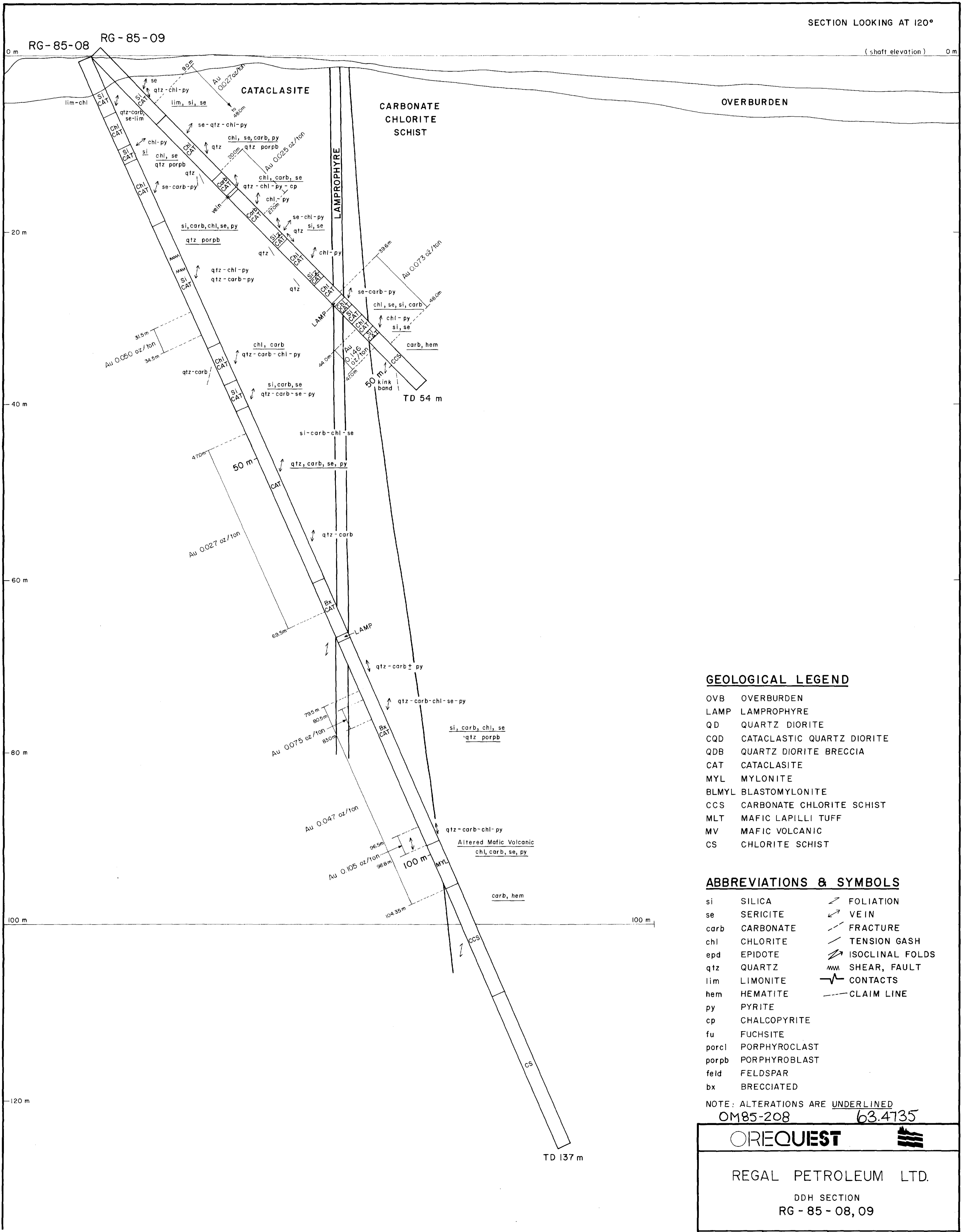
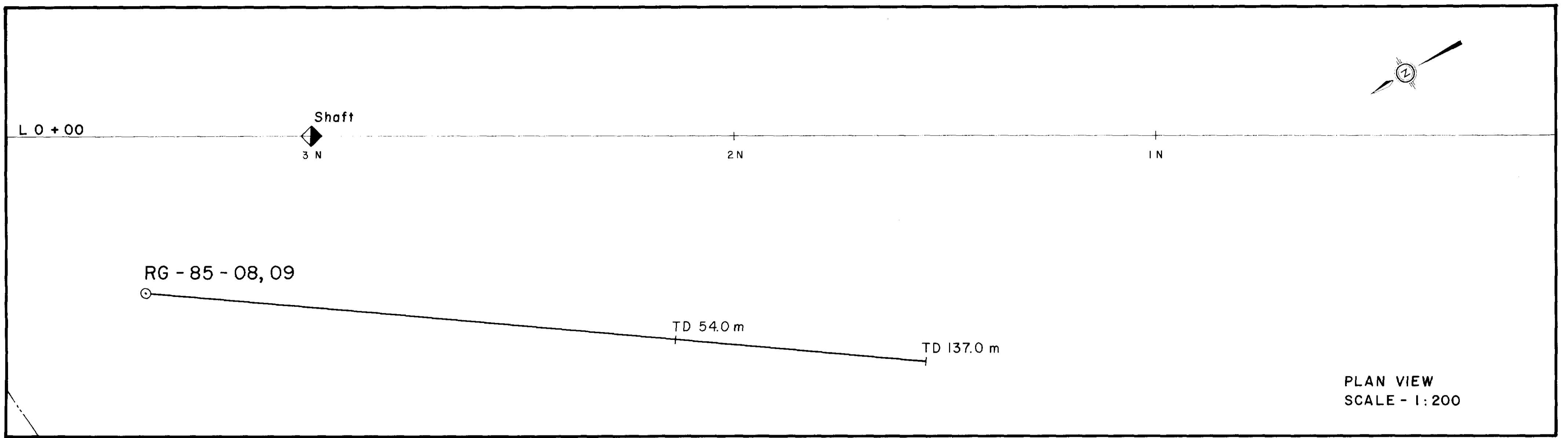
ABBREVIATIONS & SYMBOLS

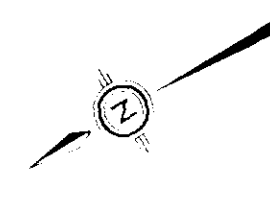
- | | | | |
|-------|---------------|-------|-----------------|
| si | SILICA | / | FOLIATION |
| se | SERICITE | - - - | VEIN |
| carb | CARBONATE | - - - | FRACTURE |
| chl | CHLORITE | - - - | TENSION GASH |
| epd | EPIDOTE | ~ ~ ~ | ISOCLINAL FOLDS |
| qtz | QUARTZ | mm | SHEAR, FAULT |
| lim | LIMONITE | ~ ~ ~ | CONTACTS |
| hem | HEMATITE | - - - | CLAIM LINE |
| py | PYRITE | | |
| cp | CHALCOPYRITE | | |
| fu | FUCHSITE | | |
| porcl | PORPHYROCLAST | | |
| porpb | PORPHYROBLAST | | |
| feld | FELDSPAR | | |
| bx | BRECCIATED | | |

NOTE: ALTERATIONS ARE UNDERLINED
OM 85-208 63.4735

OREQUEST			
REGAL PETROLEUM LTD.			
DDH SECTION RG - 85 - 06, 07			
DATE FEB., 1986	SCALE 1:200	NTS 41 0/15	FIGURE NO. 26



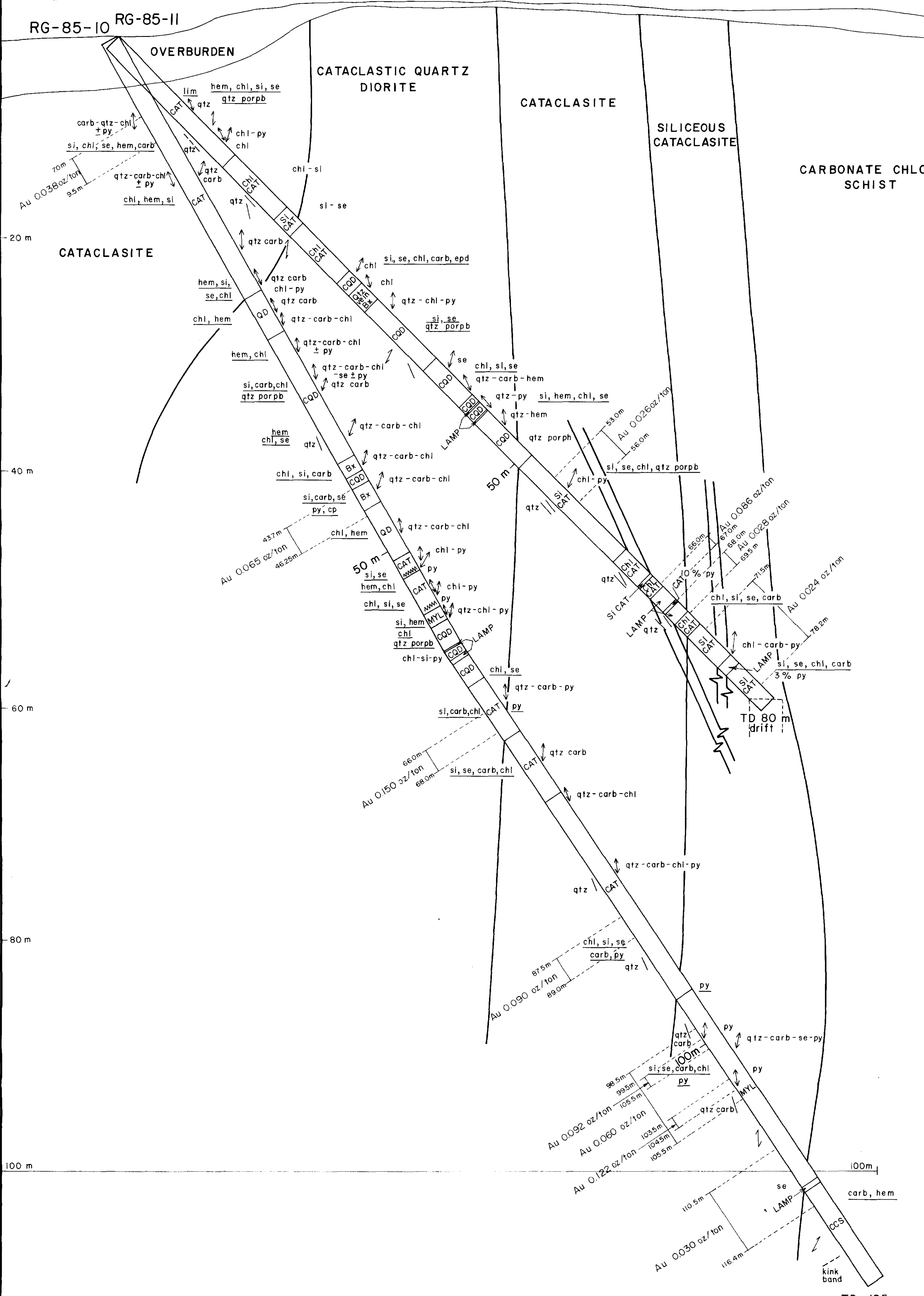




RG - 85 - 10, II
 L1+00E 4 N 3 N 2 N 1 N
 TD 80.0 m TD 125.0 m

PLAN VIEW
 SCALE - 1:200

SECTION LOOKING AT 120°
 0m (shaft elevation) (shaft elevation) 0m



GEOLOGICAL LEGEND

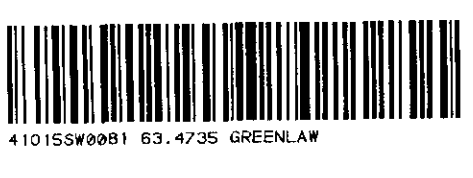
- OVB OVERBURDEN
- LAMP LAMPROPHYRE
- QD QUARTZ DIORITE
- CQD CATACLASTIC QUARTZ DIORITE
- QDB QUARTZ DIORITE BRECCIA
- CAT CATACLASITE
- MYL MYLONITE
- BLMYL BLASTOMYLONITE
- CCS CARBONATE CHLORITE SCHIST
- MLT MAFIC LAPILLI TUFF
- MV MAFIC VOLCANIC
- CS CHLORITE SCHIST

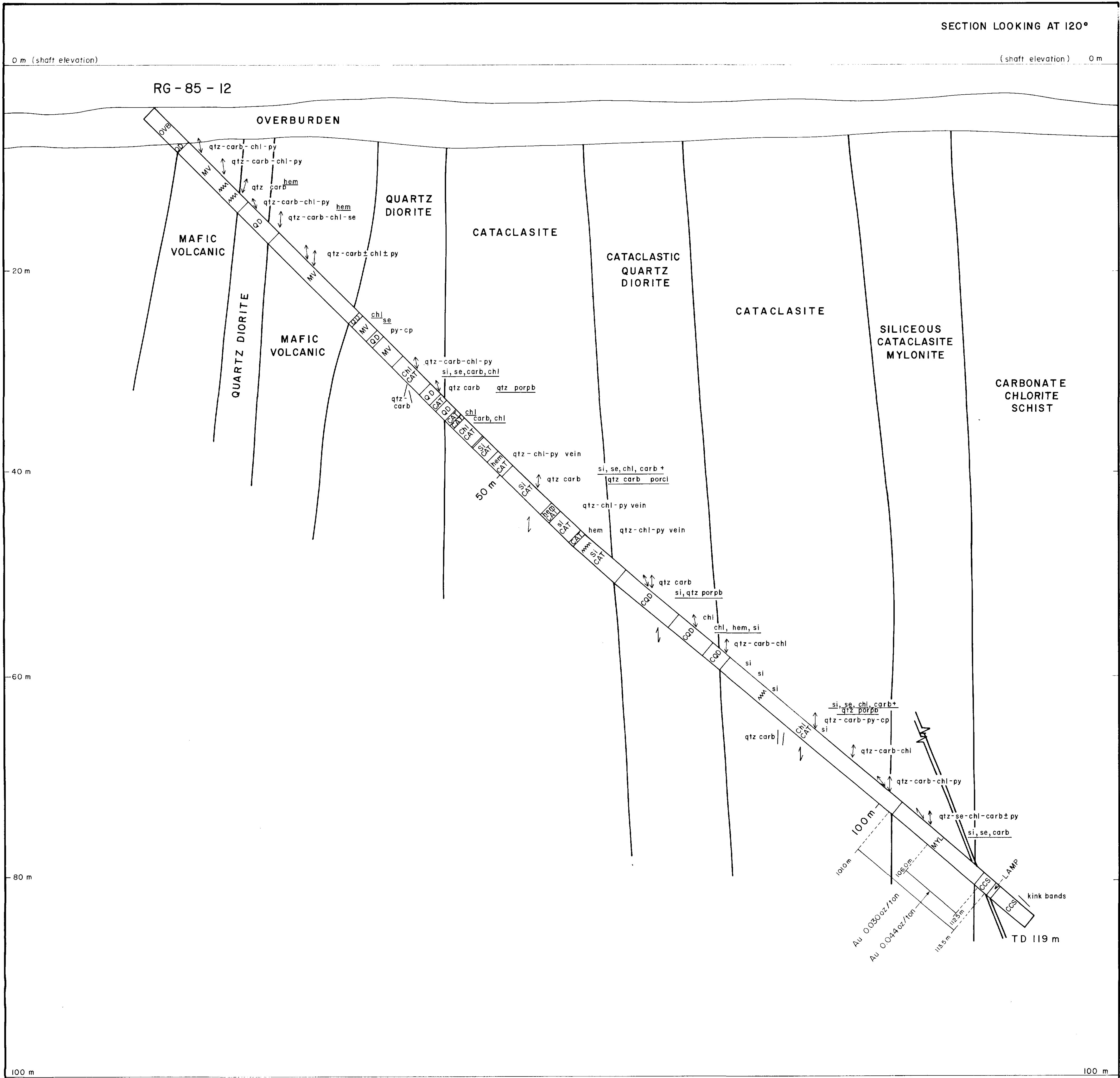
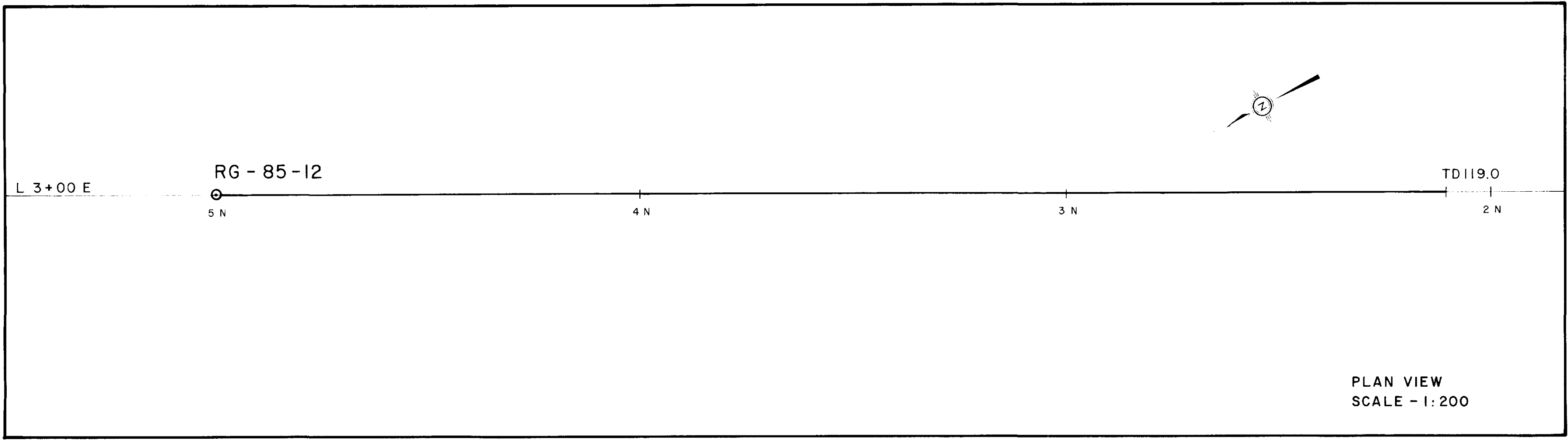
ABBREVIATIONS & SYMBOLS

- | | | | |
|-------|---------------|--|-----------------|
| si | SILICA | | FOLIATION |
| se | SERICITE | | VEIN |
| carb | CARBONATE | | FRACTURE |
| chl | CHLORITE | | TENSION GASH |
| epd | EPIDOTE | | ISOCLINAL FOLDS |
| qtz | QUARTZ | | SHEAR, FAULT |
| lim | LIMONITE | | CONTACTS |
| hem | HEMATITE | | CLAIM LINE |
| py | PYRITE | | |
| cp | CHALCOPYRITE | | |
| fu | FUCHSITE | | |
| porcl | PORPHYROCLAST | | |
| porpb | PORPHYROBLAST | | |
| feld | FELDSPAR | | |
| bx | BRECCIATED | | |

NOTE: ALTERATIONS ARE UNDERLINED
 OM85-208 63.4735

OREQUEST			
REGAL PETROLEUM LTD.			
DDH SECTION RG - 85 - 10, II			
DATE FEB., 1986	SCALE 1:200	NTS 41 0/15	FIGURE NO. 28





ABBREVIATIONS & SYMBOLS

si	SILICA	/	FOLIATION
se	SERICITE	↗	VEIN
carb	CARBONATE	- - -	FRACTURE
chl	CHLORITE	↘	TENSION GASH
epd	EPIDOTE	↗↘	ISOCLINAL FOLDS
qtz	QUARTZ		SHEAR, FAULT
lim	LIMONITE	— —	CONTACTS
hem	HEMATITE	- - -	CLAIM LINE
py	PYRITE		
cp	CHALCOPYRITE		
fu	FUCHSITE		
porcl	PORPHYROCLAST		
porpb	PORPHYROBLAST		
feld	FELDSPAR		
bx	BRECCIATED		

NOTE: ALTERATIONS ARE UNDERLINED

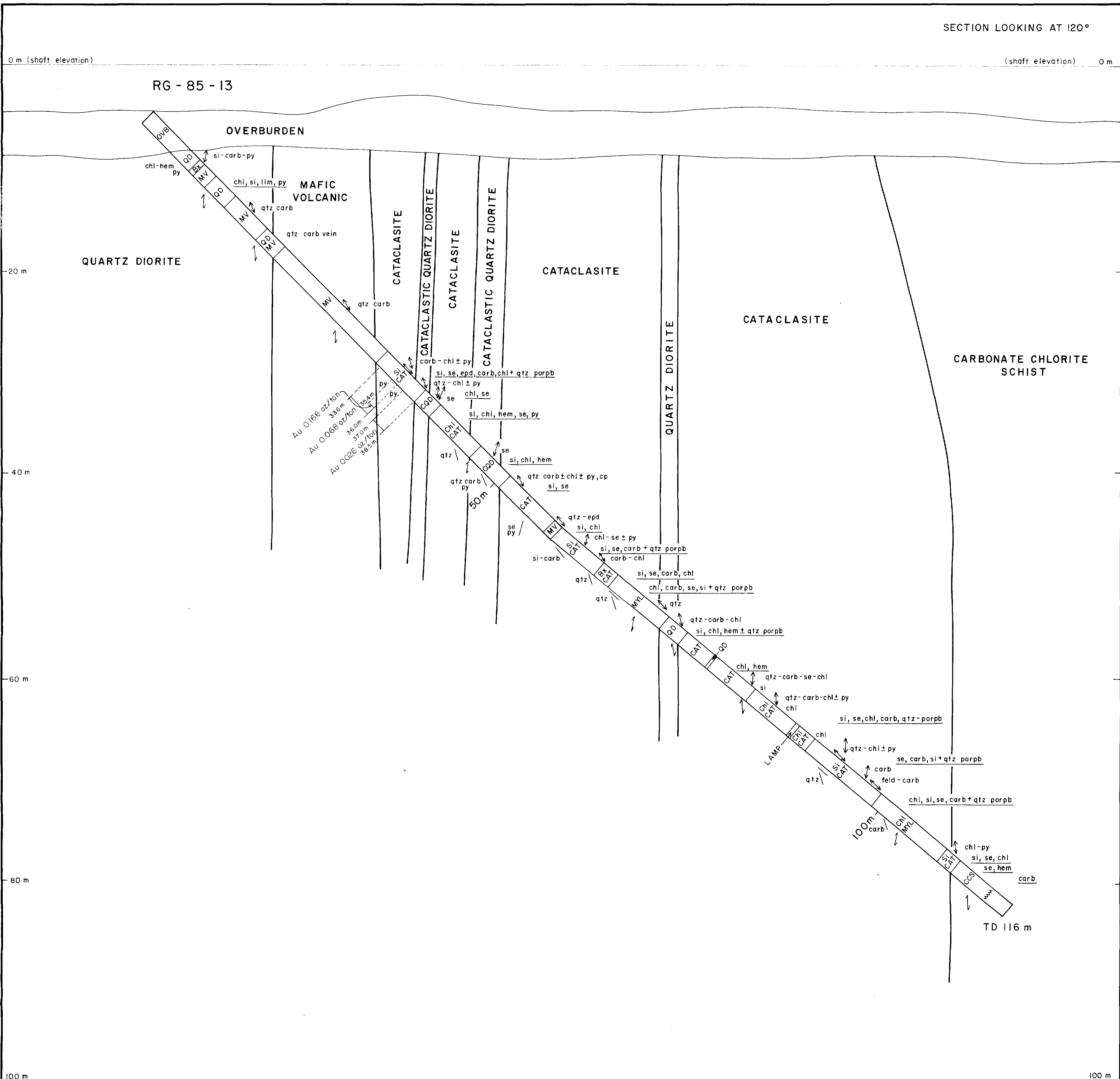
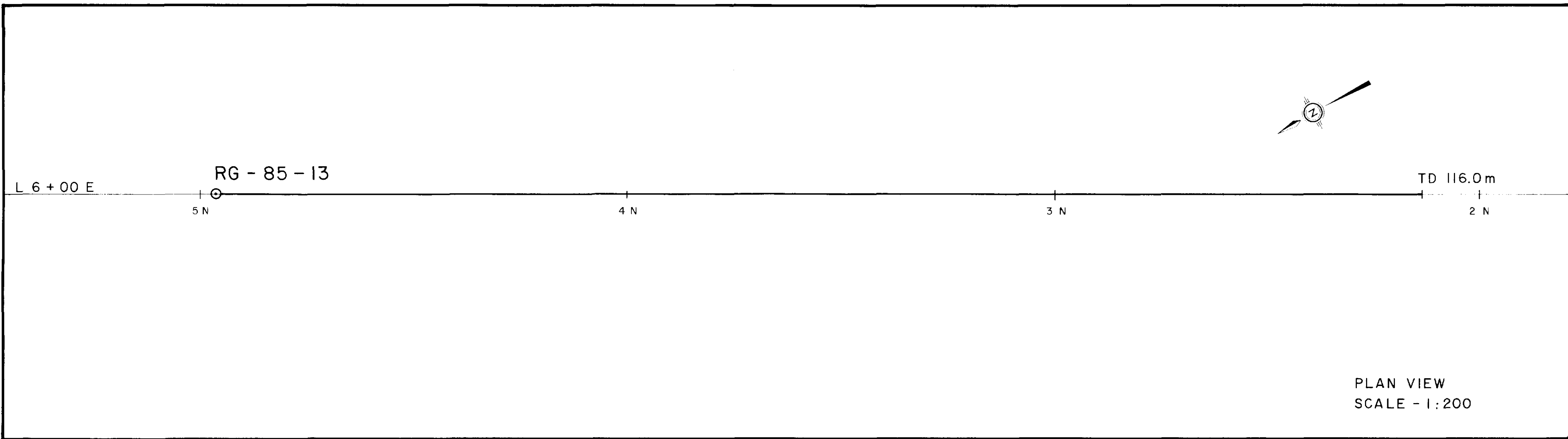
GEOLOGICAL LEGEND

OVB	OVERBURDEN
LAMP	LAMPROPHYRE
QD	QUARTZ DIORITE
CQD	CATACLASTIC QUARTZ DIORITE
QDB	QUARTZ DIORITE BRECCIA
CAT	CATACLASITE
MYL	MYLONITE
BLMYL	BLASTOMYLONITE
CCS	CARBONATE CHLORITE SCHIST
MLT	MAFIC LAPILLI TUFF
MV	MAFIC VOLCANIC
CS	CHLORITE SCHIST

OM85-208 63.4735

OREQUEST			
REGAL PETROLEUM LTD.			
DDH SECTION RG - 85 - 12			
DATE FEB., 1986	SCALE 1:200	NTS 41 0/15	FIGURE NO. 29





ABBREVIATIONS & SYMBOLS

si	SILICA		FOLIATION
se	SERICITE		VEIN
carb	CARBONATE		FRACTURE
chl	CHLORITE		TENSION GASH
epd	EPIDOTE		ISOCLINAL FOLDS
qtz	QUARTZ		SHEAR, FAULT
lim	LIMONITE		CONTACTS
hem	HEMATITE		CLAIM LINE
py	PYRITE		
cp	CHALCOPYRITE		
fu	FUCHSITE		
porcl	PORPHYROCLAST		
porpb	PORPHYROBLAST		
feld	FELDSPAR		
bx	BRECCIATED		

NOTE: ALTERATIONS ARE UNDERLINED

GEOLOGICAL LEGEND

OVB	OVERBURDEN
LAMP	LAMPROPHYRE
QD	QUARTZ DIORITE
CQD	CATACLASTIC QUARTZ DIORITE
QDB	QUARTZ DIORITE BRECCIA
CAT	CATACLASITE
MYL	MYLONITE
BLMYL	BLASTOMYLONITE
CCS	CARBONATE CHLORITE SCHIST
MLT	MAFIC LAPILLI TUFF
MV	MAFIC VOLCANIC
CS	CHLORITE SCHIST

OM85-208 63.4735

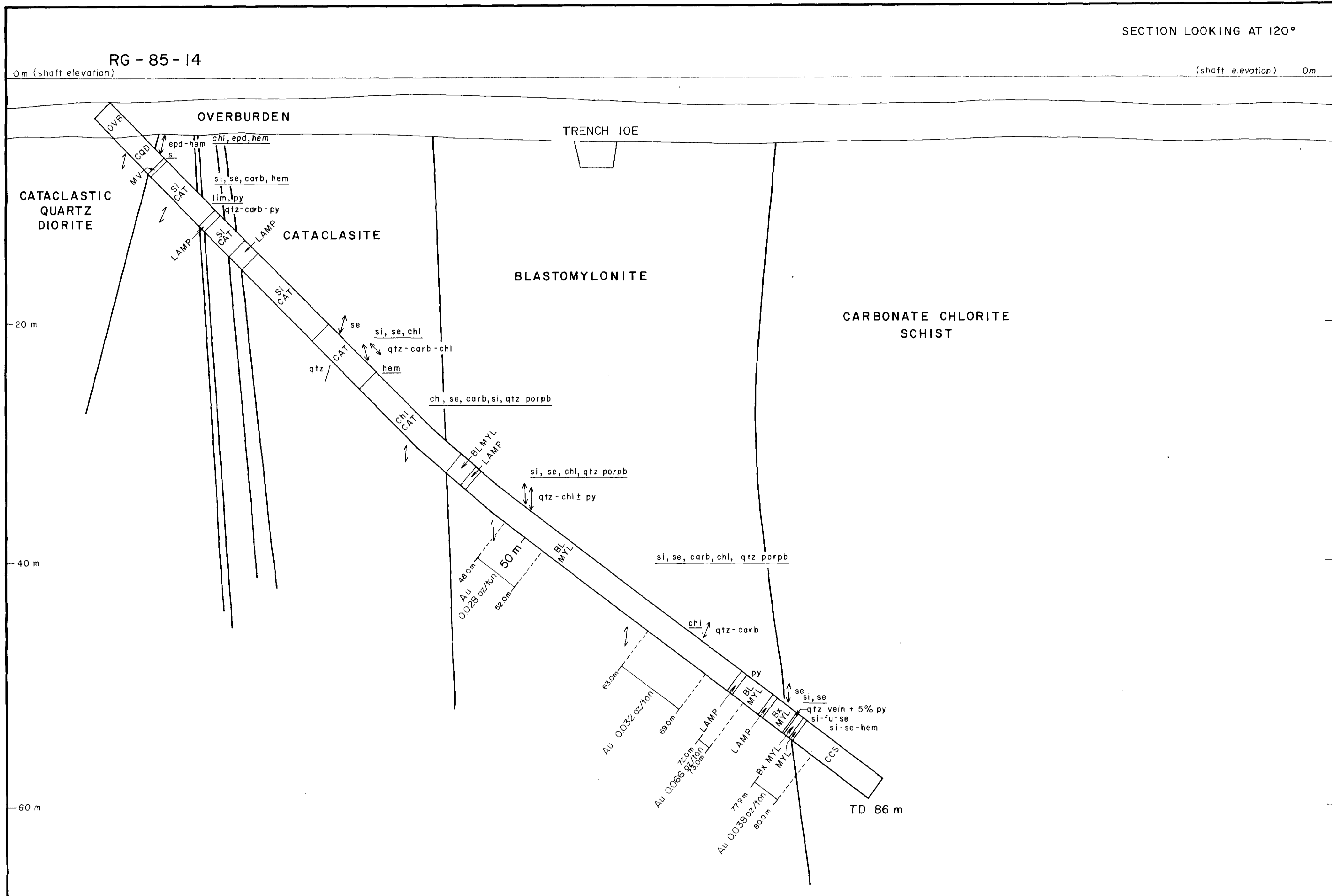
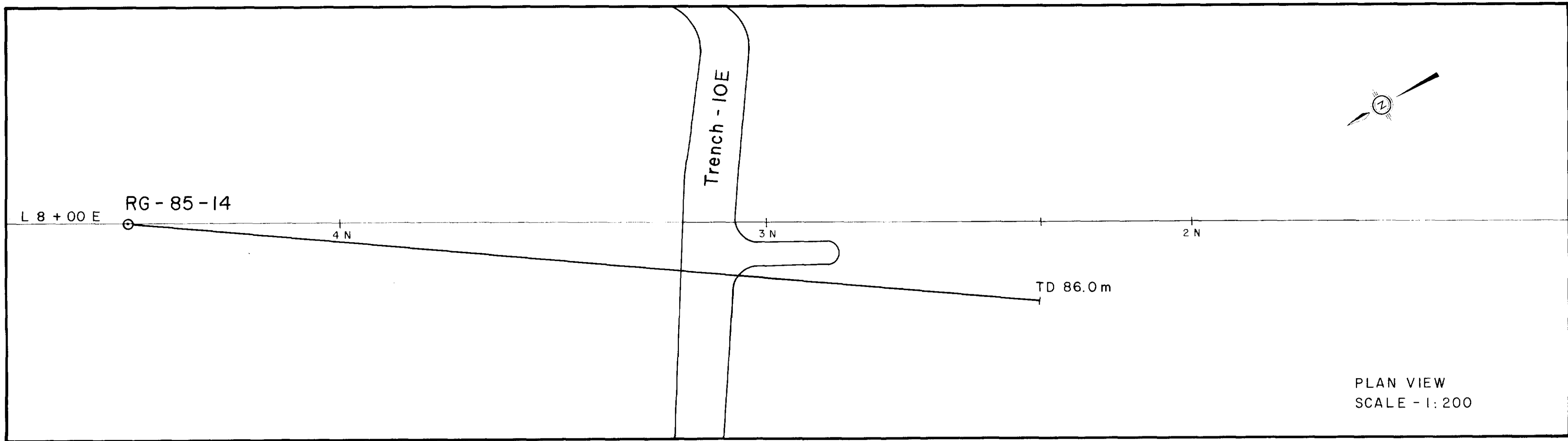
OREQUEST

REGAL PETROLEUM LTD.

DDH SECTION
RG - 85 - 13

DATE FEB., 1986	SCALE 1:200	NTS 41 0/15	FIGURE NO. 30
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GEOLOGICAL LEGEND

- OVB OVERBURDEN
- LAMP LAMPROPHYRE
- QD QUARTZ DIORITE
- CQD CATACLASTIC QUARTZ DIORITE
- QDB QUARTZ DIORITE BRECCIA
- CAT CATACLASITE
- MYL MYLONITE
- BLMYL BLASTOMYLONITE
- CCS CARBONATE CHLORITE SCHIST
- MLT MAFIC LAPILLI TUFF
- MV MAFIC VOLCANIC
- CS CHLORITE SCHIST

ABBREVIATIONS & SYMBOLS

- | | | | |
|-------|---------------|----|-----------------|
| si | SILICA | ↗ | FOLIATION |
| se | SERICITE | ↘ | VEIN |
| carb | CARBONATE | — | FRACTURE |
| chl | CHLORITE | — | TENSION GASH |
| epd | EPIDOTE | ↗↘ | ISOCLINAL FOLDS |
| qtz | QUARTZ | — | SHEAR, FAULT |
| lim | LIMONITE | — | CONTACTS |
| hem | HEMATITE | — | CLAIM LINE |
| py | PYRITE | | |
| cp | CHALCOPYRITE | | |
| fu | FUCHSITE | | |
| porcl | PORPHYROCLAST | | |
| porpb | PORPHYROBLAST | | |
| feld | FELDSPAR | | |
| bx | BRECCIATED | | |

NOTE: ALTERATIONS ARE UNDERLINED
OM85-208 63.4735

OREQUEST		REGAL PETROLEUM LTD.	
DDH SECTION RG - 85 - 14			
DATE FEB., 1986	SCALE 1:200	NTS 41 0/15	FIGURE NO. 31

