

12/88

COMINCO LTD.

EXPLORATION

NTS: 94B/5E

LOG NO: 1221	RD.
ACTION:	WESTERN CANADA
FILE NO: 87-908-16484	

1986 DIAMOND DRILLING  
ASSESSMENT REPORT  
ALEY PROPERTY  
Omineca M.D.

LATITUDE: 56°27'N

FILMED

LONGITUDE: 123°45'W 44'7"

OPERATOR/ OWNER: COMINCO LTD.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,484**

DECEMBER, 1987

K.R. PRIDE

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**1986 ASSESSMENT REPORT**

**ALEY PROPERTY**

**1.0 SUMMARY**

**1.10 Location and Access**

The Aley property is located at 56°27'N and 123°45'W on NTS sheet 94B-5, approximately 20 kilometres northeast of the confluence of the Ospika River and Williston Lake. Access to the property is via helicopter from the Ingenika or Horn Creek airstrips, a distance of 80 km and 50 km respectively or from Mackenzie, a distance of 140 km. The mobilization of large equipment is achieved by barging up Williston Lake from Mackenzie to the mouth of the Ospika River. A 20 km cat trail from the barge landing to the base camp provides access for large track-mounted equipment. Approximately two days are required to mobilize equipment from Mackenzie to the Aley property. A Toyota Land Cruiser provides access throughout the property area.

**1.20 Geology**

The mineral claims cover a circular carbonatite complex roughly 4.0 km across which intrudes Cambrian to Silurian sedimentary rocks. A dolomitic carbonatite core contains substantial niobium reserves as fersmite with lesser pyrochlore and columbite and phosphate as apatite. Minor rare earth minerals are generally confined to the outer margins of the complex and occur as bastnaesite, monazite, and burbankite in thin iron-carbonate dikes.

**1.30 1986 Field Program**

From July 2, 1986 to September 3, 1986 field work consisted of road building, drill site preparation and diamond drilling. Preliminary environmental baseline studies were also carried out.

**Table 1**  
**SUMMARY OF FIELD WORK**  
**July 2 to September 3, 1986**

	<u>Central</u>	<u>Saddle</u>	<u>Saddle West</u>	<u>Goat</u>
Road Building	2.0 km	-	-	1.20 km
Diamond Drilling (1481.36 m)	A86-11 to A86-16 (882.64 m)	A86-17 A86-19 A86-20 (476.5 m)	A86-18 (122.22 m)	-

### 1.31 Road Building (John Deere 550)

This equipment was barged to the Ospika River on July 2 and arrived at the base camp on July 4. During the period July 5 to September 1 approximately 17 km of 4x4 road were built on the Aley property. Access, using the Toyota Land Cruiser, is possible to the East Zone, Saddle and Saddle West Zones and the Goat Zone.

### 1.32 Diamond Drilling

During the period July 4 to July 24 Thomas Drilling's Longyear Super 38 was used to drill 1481 metres of BQ core in 10 holes. Drilling was performed on the Central Zone (883 m in 6 holes), Saddle Zone (476 m in 3 holes) and Saddle West (122 m in 1 hole). Permafrost conditions at the Saddle and Saddle West Zones did not cause problems. Fractured and oxidized bedrock on the Saddle and Central Zones resulted in dry holes and stuck rods. Core recovery averaged greater than 85% and total field costs were \$92.65 per metre of core drilled.

### 1.33 Environmental Baseline Studies

Norecol Environmental Consultants Ltd. was contracted to do a preliminary survey on stream water quality. Also, under the supervision of Norecol's principal Jim Malick, Cominco staff collected stream water and sediment samples and observed and recorded wildlife activities.

### 1.40 Conclusions and Recommendations

At Aley the potential exists for open-pittable bodies of mineralization grading two thirds to three quarters of a percent Nb<sub>2</sub>O<sub>5</sub>. Results of preliminary drilling and surface trenching indicate four areas of niobium potential, the Goat, Central, Saddle and Saddle West Zones. While 1986 drilling focussed on the Central Zone, all drilling to date on the property is of a general exploratory nature, and is much too widely spaced to permit calculation of useful approximations of tonnage or grade for these mineralized zones. Metallurgical testing will receive attention in lieu of diamond drilling in 1987.

## 2.00 PROPERTY AND OWNERSHIP

The Aley property is 100% Cominco owned and consists of 7 mineral claims and 9 placer leases in the Omineca Mining Division. (Plate 86-2)

Table 2

<u>Claim No.</u>	<u>Record or Lease No.</u>	<u>No. of Units</u>	<u>Recording Date</u>	<u>Due Date</u>
Aley 1	4792	20	October 7, 1982	October 7, 1996
Aley 2	4793	20	October 7, 1982	October 7, 1996
Aley 3	4794	20	October 7, 1982	October 7, 1996
Aley 4	4795	20	October 7, 1982	October 7, 1996
Aley 5	6770	8	October 16, 1984	October 19, 1996
Aley 6	6771	18	October 16, 1984	October 19, 1996
Aley 7	6772	6	October 16, 1984	October 19, 1996
Aley 8	7481	20	March 14, 1986	March 14, 1996
Placer Al Creek	11882	1	February 14, 1984	July 18, 1989
Placer Al Creek	11883	1	February 14, 1984	July 18, 1989
Placer Al Creek	11884	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11876	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11877	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11878	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11879	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11880	1	February 14, 1984	July 18, 1989
Placer Steve Creek	11881	1	February 14, 1984	July 18, 1989

## 3.00 GENERAL GEOLOGY

The Aley carbonatite complex, roughly circular in plan, is up to four km in diameter and intruded Cambrian and Ordovician sedimentary rocks in Mississippian time. It is composed of three major units: a two km diameter core of dolomite carbonatite with minor calcite carbonatite, an intermittent amphibolite annulus up to 500 m thick, and weakly altered sedimentary country rocks of the Kechika Group and Skoki Formation.

Numerous lamprophyre dikes and a small 50 m wide kimberlitic (?) diatreme intruded the sedimentary country rocks outside the carbonatite complex. These alkaline intrusives have been dated at about 350 M.A.

Within the central core of the complex, dolomite is the most abundant carbonatite phase. The chief constituents are dolomite, calcite, and apatite with lesser phlogopite and pyrite. Accessory minerals include magnetite, monazite, fersmite, zircon and sphene with lesser fluorite and pyrrhotite. To date all known zones of economic niobium potential occur within the central dolomite carbonatite core.

The amphibolite annulus consists of a massive phase and a breccia phase. The chief constituents of the massive phase are the sodic amphiboles riebeckite, arfvedsonite, richterite and Fe-actinolite and the sodic pyroxene aegirine or acmite, and carbonate (calcite and dolomite). The accessory minerals are albite, phlogopite and pyrite with lesser pyrrhotite, magnetite and chalcopyrite. The breccia phase contains angular and rounded fragments of quartzite, siltstone and dolomite derived from the underlying Cambrian Gogg Formation and well rounded fragments of an alkaline intrusive rock (albitite or syenite) of unknown age. Fragments range from 1 cm to 50 cm across but are typically 5 to 10 cm. The well-rounded fragments are somewhat "milled" in appearance and may display thin reaction rims and penetrative fractures of sodic amphibole, sodic pyroxene and phlogopite. The matrix of the breccia phase consists of sodic amphibole, sodic pyroxene, carbonate, albite and phlogopite with many small (1-5 mm) fragments of rock similar in composition to those of the larger fragments. The alkaline intrusive fragments may have originated from the Archean basement or may be an early primary magma phase from which the carbonatite magma was derived. Attempts to age-date these alkaline fragments are currently underway at UBC. The amphibole is cut by numerous veins and dykes up to 50 m wide of dolomite and calcite carbonatite.

The Fenite Halo is made up of distinct annular zones which form partial or complete ellipses around the carbonatite complex. The annular zones are essentially lithological units of the Kechika Group with some metasomatic overprinting and enrichment in elements such as iron, fluorine, barium and magnesium. The fenitized rocks are mylonitized, isoclinally folded and weather bright yellow-orange to orange. Numerous rare earth dikes containing fluorite, barite, ankerite, siderite, pyrite, sphalerite, bastnaesite, monazite and burbankite cut the fenite halo.

Two features of the Aley carbonatite that are not common to most carbonatites are the widespread alteration of pyrochlore to fersmite, and the lack of nepheline-bearing syenites and associated aluminous rocks. The complex may have been emplaced at relatively shallow depths, perhaps along major cratonic fractures such as the MacDonald Fault and was then deformed somewhat by later folding and thrusting.

Several niobium zones occur in the carbonatite core, namely the Central, Saddle, Saddle West, Goat, Bear, Bear Extension, East and Ridge zones. The niobiumbearing minerals are mainly fersmite, a relatively unusual calcium niobate, as well as pyrochlore and minor columbite. Preliminary bulldozer trenching and diamond drilling show that some of these zones are large and high enough grade to warrant further exploration.

#### 4.00 DIAMOND DRILLING

In 1986, 1481 metres of BQ core was drilled in three zones: the Central Zone (883 metres in 6 holes: A86-11 to A86-16), Saddle Zone (476 metres in 3 holes: A86-17, 19, 20) and Saddle West Zone (122 metres in 1 hole: A86-18).

J.T. Thomas Ltd., drilled 1481 metres in 10 holes (two 12 hour shifts) during the period July 7 to July 24, 1986. The loss of water circulation due to fractured and oxidized dolomite carbonatite resulted in dry holes and stuck rods. A mixture of 10 litres of alcomer and 10 litres of GS-500 per shift was used to seal the hole to permit recirculation of the water. Core recovery averages greater than 85% and the most core drilled and recovered in a single 12 hour shift was 91.46 metres or 300 feet. The drill site preparation and drill moves were carried out by the John Deere 550. Cominco Ltd. supplied the accommodations for the drill crew and fuel for the drill and ancillary equipment. The total contractor charges were \$67.95/metre and total drilling costs were \$90.57/metre. The J.T. Thomas Longyear 38 is currently being stored at the Aley property.

The BQ core was crushed to 9 mm and 1/4 splits were sent to Cominco's lab for niobium analyses by the pressed pellet XRF method.

Table 3

DIAMOND DRILLING DATA

<u>Hole #</u>	<u>Zone</u>	<u>Collar Elv.(m)</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Length (m)</u>	<u>Date</u>
A86-11	Central	1550	030°	-45°	150.57	July 7-9
-12	"	1580	020	-50	178.92	9-10
-13	"	1615	020	-45	157.58	11-12
-14	"	1615	030	-45	117.60	12-13
-15	"	1675	030	-45	131.06	13-15
-16	"	1760	030	-45	146.91	15-17
A86-17	Saddle	1980	160°	-50°	221.58	July 17-19
-19	"	1915	165	-52	121.70	21-23
-20	"	1893	165	-50	133.20	23-24
A86-18	Saddle W.	1950	165°	-50°	122.22	July 20-21



## 4.10 Diamond Drilling Results

### A. Central Zone

Drilling in 1986 commenced on the Central Zone where 882.64 metres were cored in six holes: A86-11: 150.57 m; A86-12: 178.92 m; A86-13: 157.58 m; A86-14: 117.60 m; A86-15: 131.06 m; A86-16: 146.91 m.

Mineralization at the Central Zone was first detected in 1983 where two contour soil sample lines at elevation 1700 metres and 1850 metres produced niobium values. In 1984 road access to the Saddle and Saddle West Zones provided several cut-banks which were soil sampled at 10 metre intervals. Trenching and chip sampling in 1985 along existing roadways exposed 10 metre to 30 metre thick magnetite-rich zones which contain significant niobium.

#### Holes A86-11, 12, 14 (Plate 86-4)

These three holes are located 150 m apart on a section and tested a panel 400 metres wide and 200 metres deep. This fence was drilled to test the inferred width of the Central Zone as outlined by 1985 trenches CZ85-6, 7, 8 and 9. Several mineral layering measurements from outcrop exposures in trenches indicate a strike of 110° to 120° and a dip of 50° to 70° southwest. Hole A86-11 intersected 9.2 m of 1.01% Nb<sub>2</sub>O<sub>5</sub>; holes 12 and 14 intersected 20.0 m of 0.86 and 10.4 m of 0.98% Nb<sub>2</sub>O<sub>5</sub> respectively.

#### Hole A86-13 (Plate 86-5)

Hole A86-13, collared approximately 200 m west of the fence of holes A86-11, 12, 14 was designed to test the inferred western edge of mineralization encountered in the 1985 Central Zone trenches CZ85-7 and 8. The features and character of the mineralization and footwall units are very similar to the intersections in hole A86-12 and 14 which lie approximately 200 metres to the east. Hole A86-13 intersected magnetite-columbite mineralization grading 0.73% over 43.2 m.

#### Hole A86-15 (Plate 86-6)

Hole A86-15 collared approximately 250 m east of the fence of holes A86-11, 12, 14 was designed to test the inferred eastern limit of mineralization encountered in 1985 trench CZ85-3. Hole A86-15 intersected 51.7 m of magnetite-columbite mineralization grading 0.77% Nb<sub>2</sub>O<sub>5</sub> at approximately 85 metres vertically below surface and 130 metres down the dip of mineral layering (60°) from surface mineralization in trench CZ85-3. The host rocks are very different from those intersected in the previous holes and are typically strongly fractured and brecciated, moderately oxidized dolomite carbonatite healed by later injections of dolomite carbonatite. Fersmite is common in the matrix of the breccia, whereas magnetite is only a minor constituent.

### Hole A86-16 (Plate 86-7)

Hole A86-16, collared 200 metres east of and along projected mineral-layering trend from A86-15 and 600 metres east of A86-13 was a "wild cat" hole in the sense that the soil geochemistry and the chip sampling exhibited low niobium values. Like hole A86-15 the hangingwall section is fractured and strongly brecciated moderately oxidized dolomite carbonatite healed by later injections of the same. The hole intersected 102.1 m of 0.80% Nb<sub>2</sub>O<sub>5</sub> in a strongly oxidized dolomite carbonatite breccia. Fersmite is the dominant niobium phase, typically coarse-grained ranging in size from 1 mm to 8 mm and is associated with pyrite and limonitic-calcite carbonatite phases. Pyrite and limonite occur in amounts up to 15% whereas columbite and magnetite are virtually absent.

The geology and mineralization encountered in hole A86-16 is very different than that encountered in the previous Central Zone holes and more closely resemble the mineralized intervals encountered in the Saddle Zone drilling.

### **Geological Summary**

#### Hangingwall Rocks

The hangingwall rocks are dominantly buff to brown weathering moderately fractured dolomite carbonatites. They are generally textureless and massive, weakly oxidized and contain very minor accessory apatite and very fine grained biotite. The niobium grade is very low. The lower hangingwall is characterized by the transition from brownish slightly oxidized carbonatite to fresh relatively unfractured light-cream-yellow and light-grey dolomite carbonatite and a sharp increase in the accessory minerals such as biotite, pyrite, minor magnetite and minor columbite. These accessory minerals exhibit a strong preferred orientation or mineral banding. The niobium grade generally ranges from 0.30% to 0.49% Nb<sub>2</sub>O<sub>5</sub>. This transitional zone, varying from 10 metres to 80 metres in width, forms both the immediate hangingwall and the immediate footwall to the mineralized zone. Numerous barren and massive dolomite carbonatite dykes and dyke swarms cut through the section.

#### Footwall Rocks

The footwall rocks are characterized by bands and swirls of amphibolite 1 m to 5 m thick which are altered to biotite and phlogopite. The occasional thin magnetite band 10 cm to 1 m thick and rafted blocks of magnetite 0.5 m to 1.0 m across are commonly found in dolomite and calcite carbonatite dykes and dyke swarms which cut the amphibolite sections. The lower portion of the footwall

section consists of cream to light grey coarse grained dolomite carbonatite characterized by coarse dark green to black chloritic patches 0.5 cm to 2.00 cm across and accessory pyrite. The footwall section generally lacks accessory minerals and consequently lacks the well developed mineral layering or compositional banding more typical of the well mineralized zones.

### Mineralization

Mineralization is magmatic in character as suggested by the preferred orientation of mineral crystals and grains, swirl-textures and flow-banding. The dolomite carbonatite host is strongly fractured in hole A86-11 but relatively fresh and unfractured in holes A86-12, 13 and 14. The main niobium phase is columbite which is altered from pyrochlore. Columbite occurs as pseudomorphs of the pyrochlore crystal form ranging in size from 0.10 mm to 1.00 mm. Columbite is concentrated in bands and swirls with magnetite and lesser pyrite and pyrrhotite. Accessory phlogopite and apatite are always present. In general on a large scale the highest columbite concentrations coincide with the strongest magnetite zones. On a smaller scale of 1-5 m columbite may or may not be present with magnetite. This is particularly true in the footwall where amphibolic bands with massive magnetite pods and bands are low in niobium mineralization.

Columbite occurs in two phases:

- 1) An early massive magnetite phase consisting of bands and pods of magnetite 5 to 10 m thick and 10+ metres long has been fragmented and rafted by a later injection of dolomite carbonatite magma. Columbite grains exhibit a locking relationship with the magnetite grains.
- 2) Later formed columbite crystal-pseudomorphs after pyrochlore are free-floating with magnetite and pyrite grains in dolomite carbonatite magma. Mineral grains commonly exhibit flow-banding around larger magnetite fragments and pods of the earlier magnetite phase.

### **B. Saddle Zone**

During 1986, 476.5 metres were drilled in 3 holes; A86-17: 221.58 metres, A86-19: 121.70 metres and A86-20: 133.20 metres.

#### Hole A86-17 (Plate 86-8)

Hole A86-17 was designed to test the southern extent of mineralization at the Saddle zone.

The results of hole A86-17 show that narrow bands were intersected ranging from 9.0 m to 12.0 m wide and containing from 0.61% to 0.76%  $Nb_2O_5$ . The appearance of amphibolite 2/3 of the way down the hole and corresponding drop in the niobium content is indicative of the approximate southern limits of the Saddle zone.

Mineralization is characterized by medium to coarse grained fersmite 2mm to 5mm in size concentrated in bands 10 cm to 1 metre thick of oxidized limonitic-pyritic-calcitic carbonatite interlayered with bands of dolomite carbonatite. Common accessory minerals are biotite-phlogopite, apatite, and pyrite. Magnetite and columbite are virtually absent. The amphibolite zones in hole A86-17 are cut by calcite and dolomite carbonatite dykes.

#### Saddle - Saddle West Fence (Plate 86-9)

A fence of holes was designed to test the niobium potential of a continuous section of the carbonatite through the Saddle West and Saddle zones. This fence includes holes A86-18, A86-19 and A86-20. The target depth of holes A86-18, 19 and 20 was not achieved due to caving conditions in the holes. The drill rods became stuck and these holes fell short of the designed target depth creating a 75 m gap between hole A86-18 and 19 and between A86-19 and 20 which resulted in a discontinuous or segmented section across the Saddle and Saddle West zones. In two cases, holes A86-18 and A86-19, mineralization was intersected in the bottom 6 to 10 metres of the hole. Hole A86-18 will be discussed under the section describing the Saddle West drilling results.

#### Hole A86-19 (Plate 86-9)

Hole A86-19 was collared 200 metres southeasterly along the fence-section from hole A86-18 and 250 m N.W. of hole A85-3.

The results of hole A86-19, 62.5 m of 0.60%  $Nb_2O_5$  suggests down dip continuity of mineralization at the Saddle zone. As drilling is wide spaced (200 metres) it is difficult to infer the continuity of mineralization along strike. Mineralization consists of fine to medium grained fersmite 1 mm to 3 mm in size concentrated in bands of oxidized pyritic-calcitic dolomite carbonatite 10 cm to 2 metres wide. Accessory minerals include apatite, pyrite, phlogopite-- chlorite whereas magnetite and columbite are virtually absent.

#### Hole A86-20 (Plate 86-9)

Hole A86-20 was collared 150 metres along the strike of the fence-section from hole A86-19. In addition to contributing to the drill fence-section, hole A86-20 was designed to test for the southwestern limits of the Saddle zone mineralization. Adverse drilling conditions (dry holes) resulted in rods being stuck and the designed target depth was not achieved resulting in an incomplete test of the southwestern extension of the Saddle zone mineralization. The hole intersected 54.8 m of 0.52%  $Nb_2O_5$  and suggests that mineralization is of fairly low grade and probably represents a transition between Saddle zone mineralization and very low grade dolomite carbonatite.

### C. Saddle West Zone (Plate 86-9)

During 1986, hole A86-18 was drilled as part of a fence comprising also A86-19 and A86-20. The upper part of the hole intersected 31.86 m of 0.57% Nb<sub>2</sub>O<sub>5</sub>. The lower part of the hole encountered an amphibolitic band 35 metres wide which corresponds to an apophysis of amphibolite mapped on surface. The amphibolite is cut by numerous dolomite and calcite carbonatite dykes 0.5 m to 5 metres wide. The hole was stopped shortly after passing through the amphibolite band because rods were getting stuck. The last 6 metres of the hole consisted of 5.77 m of 0.65% Nb<sub>2</sub>O<sub>5</sub> in dolomite carbonatite which may represent the western edge of the Saddle zone mineralization. It appears that the amphibolite apophysis forms the boundary between Saddle and Saddle West and that the Saddle West zone may be completely enveloped by a remnant amphibolite annulus.

### D. Distribution of Niobium Phases at Aley

It appears that the niobium phases at Aley are zoned within the carbonatite complex, namely,

- 1) Pyrochlore occurs at the top and outer margins of the carbonatite.
- 2) Columbite occurs lower and at the central core of the carbonatite.
- 3) Fersmite occurs at the transition between pyrochlore and columbite.

Pyrochlore-rich zones are small and generally occur in calcite carbonatite dykes and sills at the higher elevations near the outer margins of the carbonatite.

<u>Niobium Zone</u>	<u>Niobium Phase</u>
Central	columbite >> fersmite > pyrochlore
Saddle	fersmite >> pyrochlore
Saddle West	pyrochlore = fersmite

## 5.00 CONCLUSIONS

1. Drilling at Central zone has tended to confirm the presence of niobium-mineralized zones inferred from trenching done in 1985.
2. Drilling at Saddle and Saddle West zones has found extensions to mineralized zones first intersected in 1985, and has helped establish the edges of these zones.
3. Significant bodies of mineralization grading two thirds to three quarters of a percent Nb<sub>2</sub>O<sub>5</sub> can likely be delineated with further drilling at Aley.
4. Metallurgical test work on drill core and trench samples is warranted.

Reported by K.R. Pride  
K.R. Pride  
Project Geologist

Endorsed by John Hamilton  
J.M. Hamilton  
Manager, Exploration  
- Western Canada

KRP/jd

Distribution: Mining Recorder (2)  
Western District File (1)

APPENDIX "A"

IN THE MATTER OF A GEOLOGICAL SURVEY CARRIED OUT IN THE MINERAL CLAIMS OF THE ALEY PROPERTY LOCATED IN THE OMINECA MINING DIVISION, BRITISH COLUMBIA, MORE PARTICULARLY N.T.S. 94B-5.

A F F I D A V I T

I, K.R. PRIDE OF THE VILLAGE OF LIONS BAY, IN THE PROVINCE OF BRITISH COLUMBIA, HEREBY DECLARE:-

- (1) THAT I am employed as a geologist by Cominco Ltd., and, as such, have a personal knowledge of the facts to which I hereinafter depose;
- (2) THAT annexed hereto and marked as APPENDIX "B" to this report is a true copy of expenditures incurred in connection with a geological survey on the Aley Property;
- (3) THAT the said expenditures were incurred between the 2nd day of July and the 3rd day of September, 1986 for the purpose of conducting a geological survey on the Aley Property.

Signed: K.R. Pride

K.R. Pride  
Project Geologist

**APPENDIX "B"**  
**STATEMENT OF EXPENDITURES**  
**ALEY PROPERTY**

Salaries:	
Geological surveys, map and report preparation and related costs	\$79,000
Diamond Drilling:	
1481 metres @ \$92.65/metre	137,213
Assays and Analyses:	46,000
Domicile:	
Camp costs, food	20,573
Transportation:	
Helicopter, fixed wing, barge, fuel	<u>79,635</u>
Subtotal	\$362,421
Supervision:	
Administration 10%	<u>36,242</u>
	\$398,663
Less FAME Grant Amount	<u>-90,000</u>
TOTAL AMOUNT APPLIED FOR ASSESSMENT	\$308,663



APPENDIX "C"

STATEMENT OF QUALIFICATIONS

I, K.R. PRIDE, GEOLOGIST, with business address at 700-409 Granville Street, Vancouver, British Columbia and residential address at 160 Sunset Drive, Lions Bay, British Columbia, hereby certify:-

- (1) THAT I am a graduate in Geological Sciences with a B. Sc. (Hons.) in 1973 from the University of British Columbia.
- (2) THAT from 1973 to the present I have been employed by Cominco Ltd. as a geologist and have been actively engaged in mineral exploration.
- (3) THAT I personally participated in the field work on the Aley Property and have interpreted all the data resulting from this work.

Signed: \_\_\_\_\_

*K.R. Pride*

K.R. Pride  
Project Geologist

*Robert J. Sharp is a graduate geologist on Cominco's staff.*

*T.K.*

**APPENDIX "A"**

**1986 DRILL LOGS GEORES FORMAT**

## DEFINITION OF ABBREVIATIONS

### Major Units

OVBD	overburden
OXID	oxide
SHER	shear zone
M	magnetite - disseminated
MM	magnetite - massive
AM	amphibolite
CC	calcite carbonatite
CD	dolomite carbonatite
CC-CD	calcitic-dolomitic carbonatite
A+MX	amphibolite and mixed CC-CD
A+CC	amphibolite and calcite carbonatite
A+CD	amphibolite and dolomite carbonatite

### Modifiers

a	amphibolite
b	explosion breccia
c	calcitic
d	dolomitic
p	phlogopite
x	carbonate breccia
y	dyke

\*\*\*\*\*  
 \* ID: A86-11 \*  
 \*\*\*\*\*

DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-11 \*  
 \*\*\*\*\*

LATITUDE 11128.0  
 DEPARTURE 10374.0  
 ELEVATION 1550.00  
 DIP -45.0  
 AZIMUTH 30.0  
 LENGTH 150.57  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS RJS  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
150.00	-57.0	30.0

UNITS/PARTING DATA

UNITS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF
OVBD	0.00	TOP		3.28	BOT	
CD	3.28	TOP		150.57	BOT	
M	8.07	TOP		15.02	BOT	
P	40.52	TOP		40.90	BOT	
Y	40.52	TOP		40.90	BOT	
X	45.15	TOP		49.39	BOT	
X	65.72	TOP		69.20	BOT	
Y	83.55	TOP		85.50	BOT	
Y	96.05	TOP		96.43	BOT	
Y	105.00	TOP		106.05	BOT	
M	126.30	TOP		126.40	BOT	
MM	126.40	TOP		126.50	BOT	
M	126.50	TOP		128.44	BOT	

PARTINGS

FROM	TO
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 \* ID: A86-12 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-12 \*  
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LATITUDE 11245.0  
 DEPARTURE 10443.0  
 ELEVATION 1580.00  
 DIP -50.0  
 AZIMUTH 20.0  
 LENGTH 178.92  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS KRP  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
157.60	-60.0	20.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		6.56	BOT			
CD	6.56	TOP		12.65	BOT			
CD	12.65	TOP		50.90	BOT			
M	33.90	TOP		40.73	BOT			
CC	50.90	TOP		53.90	BOT			
M	50.90	TOP		62.63	BOT			
CD	53.90	TOP		62.63	BOT			
CD	62.63	TOP		87.50	BOT			
CD	87.50	TOP		105.85	BOT			
M	89.00	TOP		90.50	BOT			
A+CD	105.85	TOP		109.15	BOT			
A	105.85	TOP		109.15	BOT			
B	105.85	TOP		109.15	BOT			
CD	109.15	TOP		117.80	BOT			
A+CD	117.80	TOP		120.30	BOT			
A	117.80	TOP		120.30	BOT			
B	117.80	TOP		120.30	BOT			
CD	120.30	TOP		129.60	BOT			
A+MX	129.60	TOP		134.80	BOT			
M	132.50	TOP		133.75	BOT			
A+CD	134.80	TOP		138.70	BOT			

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\* ID: A86-12 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
\* ID: A86-12 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS			
NAME	FROM	TYPE	CONF TO	TYPE	CONF	FROM	TO
CD	138.70	TOP	161.30	BOT			
M	145.60	TOP	149.00	BOT			
AM	161.30	TOP	163.35	BOT			
CC	163.35	TOP	165.05	BOT			
M	164.60	TOP	165.05	BOT			
CD	165.05	TOP	166.22	BOT			
M	165.05	TOP	166.22	BOT			
CD	166.22	TOP	178.92	BOT			

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\* ID: A86-13 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
\* ID: A86-13 \*  
\*\*\*\*\*

LATITUDE 11175.0  
DEPARTURE 10219.0  
ELEVATION 1615.00  
DIP -45.0  
AZIMUTH 20.0  
LENGTH 157.60  
OVERBURDEN 0.00

DRILLHOLE TYPE  
SELECTION CODE  
COLLAR CODE 1  
LOGGER INITIALS KRP  
DATE DRILLED 86  
RATIONALIZE NO  
REVISION DATE JAN 13/87  
UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
76.20	-55.0	20.0
151.50	-55.0	20.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		3.88	BOT			
CD	3.88	TOP		13.62	BOT			
CD	13.62	TOP		24.62	BOT			
CD	24.62	TOP		25.86	BOT			
CD	25.86	TOP		35.75	BOT			
M	25.86	TOP		26.36	BOT			
CD	35.75	TOP		44.15	BOT			
M	42.50	TOP		42.80	BOT			
CD	44.15	TOP		46.12	BOT			
Y	44.15	TOP		46.12	BOT			
MM	46.12	TOP		46.86	BOT			
CD	46.86	TOP		50.74	BOT			
Y	50.74	TOP		53.15	BOT			
CD	50.74	TOP		53.15	BOT			
CD	53.15	TOP		61.60	BOT			
CD	61.60	TOP		65.77	BOT			
Y	61.60	TOP		65.77	BOT			
CD	65.77	TOP		77.45	BOT			
M	68.87	TOP		70.75	BOT			
M	77.45	TOP		78.10	BOT			

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\* ID: A86-13 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
\* ID: A86-13 \*  
\*\*\*\*\*

\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS			
NAME	FROM	TYPE	CONF TO	TYPE	CONF	FROM	TO
CD	77.45	TOP	80.00	BOI			
M	78.90	TOP	80.00	BOT			
CD	80.00	TOP	85.55	BOT			
M	84.43	TOP	85.00	BOT			
CD	85.55	TOP	88.55	BOT			
Y	85.55	TOP	88.55	BOT			
CD	88.55	TOP	89.57	BOT			
MM	88.75	TOP	89.57	BOT			
CD	89.57	TOP	93.88	BOI			
CD	89.57	TOP	93.88	BOT			
Y	89.57	TOP	93.88	BOI			
CC	93.88	TOP	96.97	BOT			
MM	94.00	TOP	94.50	BOT			
M	94.50	TOP	96.97	BOT			
CD	96.97	TOP	98.70	BOT			
M	96.97	TOP	98.70	BOI			
CCCD	98.70	TOP	99.18	BOT			
MM	98.70	TOP	99.18	BOI			
M	99.18	TOP	100.94	BOT			
CC	99.18	TOP	100.94	BOT			
B	99.18	TOP	100.94	BOT			
CD	100.94	TOP	103.86	BOT			
MM	102.25	TOP	102.55	BOT			
CD	103.86	TOP	105.44	BOT			
MM	103.86	TOP	105.44	BOT			
CD	105.44	TOP	114.44	BOT			
C	111.44	TOP	114.44	BOT			
CC	114.44	TOP	117.19	BOT			
M	114.44	TOP	115.44	BOT			
MM	115.44	TOP	116.44	BOT			
M	116.44	TOP	117.19	BOI			
P	117.19	TOP	120.06	BOI			
CD	117.19	TOP	120.06	BOT			
A	117.19	TOP	120.06	BOI			
A	120.06	TOP	122.40	BOT			
CC	120.06	TOP	122.40	BOT			
P	120.06	TOP	122.40	BOT			
A	122.40	TOP	125.40	BOT			
P	122.40	TOP	125.40	BOT			
CD	122.40	TOP	128.40	BOT			
MM	122.90	TOP	123.00	BOT			



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 \* ID: A86-13 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
 \* ID: A86-13 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS			
NAME	FROM	TYPE	CONF TO	TYPE	CONF	FROM	TO
CD	128.40	TOP	130.63	BOT			
CD	130.63	TOP	134.45	BOT			
CD	134.45	TOP	136.55	BOT			
CD	136.55	TOP	137.25	BOT			
M	136.55	TOP	137.25	BOT			
CD	137.25	TOP	139.30	BOT			
B	139.30	TOP	142.43	BOT			
CD	139.30	TOP	142.43	BOT			
MM	139.30	TOP	142.43	BOT			
A	139.30	TOP	142.43	BOT			
CD	142.43	TOP	145.30	BOT			
M	144.80	TOP	145.30	BOT			
A+CD	145.30	TOP	148.96	BOT			
P	145.30	TOP	148.96	BOT			
CD	148.96	TOP	157.58	BOT			

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 \* ID: A86-14 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-14 \*  
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LATITUDE 11363.0  
 DEPARTURE 10489.0  
 ELEVATION 1650.00  
 DIP -45.0  
 AZIMUTH 20.0  
 LENGTH 117.65  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS KRP  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
61.00	-55.0	20.0
116.70	-52.0	20.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		4.50	BOT			
CD	4.50	TOP		15.00	BOT			
MM	8.70	TOP		9.75	BOT			
M	10.95	TOP		12.40	BOT			
MM	14.90	TOP		15.00	BOT			
CD	15.00	TOP		18.00	BOT			
CD	18.00	TOP		24.00	BOT			
M	23.20	TOP		23.60	BOT			
CD	24.00	TOP		27.00	BOT			
CD	27.00	TOP		30.00	BOT			
MM	29.27	TOP		29.57	BOT			
CD	30.00	TOP		36.00	BOT			
CD	36.00	TOP		38.00	BOT			
Y	36.00	TOP		38.00	BOT			
CD	38.00	TOP		40.50	BOT			
M	40.50	TOP		42.50	BOT			
CD	40.50	TOP		46.70	BOT			
B	42.50	TOP		44.50	BOT			
M	42.50	TOP		44.50	BOT			
M	44.80	TOP		45.15	BOT			

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 \* ID: A86-14 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
 \* ID: A86-14 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS				
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
B	44.80	TOP		45.15	BOT			
CD	46.70	TOP		59.50	BOT			
MM	57.75	TOP		58.35	BOT			
CD	59.50	TOP		63.00	BOT			
Y	59.50	TOP		63.00	BOT			
CD	63.00	TOP		67.15	BOT			
A+CD	67.15	TOP		69.85	BOT			
M	68.00	TOP		68.95	BOT			
A+CC	69.85	TOP		71.10	BOT			
CC	71.10	TOP		72.62	BOT			
A+MX	72.62	TOP		75.20	BOT			
M	72.62	TOP		75.20	BOT			
A+CC	75.20	TOP		77.00	BOT			
M	75.20	TOP		76.00	BOT			
MM	76.80	TOP		77.00	BOT			
AM	77.00	TOP		79.40	BOT			
CD	79.40	TOP		81.00	BOT			
Y	79.40	TOP		81.00	BOT			
CD	81.00	TOP		82.95	BOT			
CD	82.95	TOP		86.00	BOT			
Y	82.95	TOP		86.00	BOT			
A+CC	86.00	TOP		87.35	BOT			
CD	87.35	TOP		91.00	BOT			
CD	91.00	TOP		93.65	BOT			
Y	93.65	TOP		94.90	BOT			
CD	93.65	TOP		94.90	BOT			
CD	94.90	TOP		117.65	BOT			

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\* ID: A86-15 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
\* ID: A86-15 \*  
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LATITUDE 11344.0  
DEPARTURE 10736.0  
ELEVATION 1675.00  
DIP -45.0  
AZIMUTH 30.0  
LENGTH 131.10  
OVERBURDEN 0.00

DRILLHOLE TYPE  
SELECTION CODE  
COLLAR CODE 1  
LOGGER INITIALS RJS  
DATE DRILLED 86  
RATIONALIZE NO  
REVISION DATE JAN 13/87  
UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
130.00	-54.0	30.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		3.90	BOT			
CD	3.90	TOP		10.00	BOT			
CD	10.00	TOP		11.80	BOT			
Y	10.00	TOP		11.80	BOT			
CD	11.80	TOP		26.60	BOT			
X	11.80	TOP		26.60	BOT			
CD	26.60	TOP		35.00	BOT			
Y	26.60	TOP		35.00	BOT			
CD	35.00	TOP		45.00	BOT			
X	35.00	TOP		45.00	BOT			
CD	45.00	TOP		59.30	BOT			
Y	45.00	TOP		59.30	BOT			
CD	59.30	TOP		71.00	BOT			
CD	71.00	TOP		72.00	BOT			
M	71.00	TOP		72.00	BOT			
CD	72.00	TOP		88.70	BOT			
MM	74.00	TOP		75.00	BOT			
MM	76.50	TOP		77.00	BOT			
MM	78.60	TOP		80.00	BOT			
MM	80.00	TOP		81.20	BOT			
MM	85.00	TOP		85.70	BOT			

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\* ID: A86-15 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
\* ID: A86-15 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS			
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM TO
MM	87.50	TOP		88.00	BOT		
CD	88.70	TOP		94.30	BOT		
MM	91.00	TOP		91.30	BOT		
MM	92.00	TOP		92.90	BOT		
CD	94.30	TOP		95.40	BOT		
Y	94.30	TOP		95.40	BOT		
CD	95.40	TOP		111.00	BOT		
M	95.40	TOP		111.00	BOT		
CD	111.00	TOP		113.40	BOT		
Y	111.00	TOP		113.40	BOT		
CD	113.40	TOP		116.60	BOT		
M	113.40	TOP		116.60	BOT		
A+CD	116.65	TOP		118.20	BOT		
MM	118.20	TOP		118.50	BOT		
CD	118.20	TOP		120.10	BOT		
M	118.70	TOP		119.10	BOT		
A+CD	120.10	TOP		126.50	BOT		
M	121.00	TOP		121.50	BOT		
M	122.80	TOP		123.50	BOT		
MM	125.00	TOP		125.50	BOT		
CD	126.50	TOP		129.60	BOT		
Y	126.50	TOP		129.60	BOT		
CD	129.60	TOP		131.06	BOT		

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 \* ID: A86-16 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-16 \*  
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LATITUDE 11147.0  
 DEPARTURE 10865.0  
 ELEVATION 1760.00  
 DIP -45.0  
 AZIMUTH 30.0  
 LENGTH 146.91  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS RJS  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
146.00	-54.0	30.0

UNITS/PARTING DATA

UNITS				PARTINGS				
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		4.40	BOT			
CD	4.40	TOP		7.20	BOT			
MM	7.20	TOP		7.80	BOT			
OXID	7.20	TOP		7.80	BOT			
CD	7.80	TOP		11.10	BOT			
CD	11.10	TOP		12.10	BOT			
Y	11.10	TOP		12.10	BOT			
CD	12.10	TOP		14.10	BOT			
OXID	14.10	TOP		15.25	BOT			
CD	15.25	TOP		17.10	BOT			
OXID	17.10	TOP		18.05	BOT			
CD	18.05	TOP		19.50	BOT			
Y	18.05	TOP		19.50	BOT			
CD	19.50	TOP		32.20	BOT			
MM	32.20	TOP		33.00	BOT			
OXID	32.20	TOP		33.00	BOT			
CD	33.00	TOP		43.10	BOT			
CD	43.10	TOP		48.50	BOT			
Y	43.10	TOP		48.50	BOT			
CD	48.50	TOP		67.70	BOT			
M	54.00	TOP		55.00	BOT			

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 \* ID: A86-16 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
 \* ID: A86-16 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS					PARTINGS			
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
CD	67.70	TOP		68.80	BOI			
Y	67.70	TOP		68.80	BOI			
CD	68.80	TOP		76.20	BOI			
C	68.80	TOP		76.20	BOI			
CD	76.20	TOP		81.50	BOI			
CD	81.50	TOP		94.50	BOI			
C	82.00	TOP		85.60	BOI			
MUD	94.50	TOP		95.20	BOI			
CD	95.20	TOP		99.10	BOI			
CD	99.10	TOP		100.40	BOI			
Y	99.10	TOP		100.40	BOI			
CD	100.40	TOP		106.40	BOI			
Y	106.40	TOP		109.40	BOI			
CD	106.40	TOP		109.40	BOI			
CD	109.40	TOP		114.70	BOI			
C	109.40	TOP		114.70	BOI			
Y	114.70	TOP		116.70	BOI			
CD	114.70	TOP		116.70	BOI			
CD	116.70	TOP		122.30	BOI			
C	116.70	TOP		122.30	BOI			
Y	122.30	TOP		125.50	BOI			
CD	122.30	TOP		125.50	BOI			
CD	125.50	TOP		139.41	BOI			
SHER	139.40	TOP		140.50	BOI			
CD	140.50	TOP		142.80	BOI			
SHER	142.80	TOP		143.50	BOI			
CD	143.50	TOP		146.91	BOI			

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 \* ID: A86-17 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-17 \*  
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LATITUDE 12035.0  
 DEPARTURE 10490.0  
 ELEVATION 1980.00  
 DIP -50.0  
 AZIMUTH 160.0  
 LENGTH 221.60  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS RJS  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
117.00	-56.0	160.0
221.58	-56.0	160.0

UNITS/PARTING DATA

UNITS				PARTINGS				
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		10.00	BOT			
A+CC	10.00	TOP		12.50	BOT			
CD	12.50	TOP		14.25	BOT			
C	12.50	TOP		14.25	BOT			
CD	14.25	TOP		15.90	BOT			
A+CD	15.90	TOP		17.25	BOT			
CD	17.25	TOP		83.40	BOT			
C	42.50	TOP		51.20	BOT			
A+CD	83.40	TOP		85.05	BOT			
CD	85.05	TOP		98.05	BOT			
A+CD	98.05	TOP		104.00	BOT			
C	98.05	TOP		104.00	BOT			
CD	104.00	TOP		120.70	BOT			
C	111.70	TOP		117.90	BOT			
A+CD	120.70	TOP		123.20	BOT			
CD	123.20	TOP		130.90	BOT			
A+CD	130.90	TOP		138.00	BOT			
CD	138.00	TOP		151.25	BOT			
A+CC	151.25	TOP		152.70	BOT			
CC	152.70	TOP		154.10	BOT			



\*\*\*\*\*  
\* ID: A86-17 \*  
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UNITS/PARTINGS DATA

\*\*\*\*\*  
\* ID: A86-17 \*  
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\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS				
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
A+MX	154.10	TOP		161.30	BOT			
CD	161.30	TOP		169.35	BOT			
AM	169.35	TOP		174.85	BOT			
CC	174.85	TOP		180.85	BOT			
AM	180.85	TOP		183.90	BOT			
A+CC	183.90	TOP		192.30	BOT			
CD	192.30	TOP		194.90	BOT			
A+CD	194.90	TOP		198.15	BOT			
C	194.90	TOP		198.15	BOT			
CC	198.15	TOP		201.90	BOT			
A+MX	201.90	TOP		204.15	BOT			
CC	204.15	TOP		211.70	BOT			
D	204.15	TOP		211.70	BOT			
AM	211.70	TOP		213.35	BOT			
CC	213.35	TOP		214.70	BOT			
CD	214.70	TOP		220.35	BOT			
A+CD	220.35	TOP		221.58	BOT			
C	220.35	TOP		221.58	BOT			

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\* ID: A86-18 \*  
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DRILLHOLE HEADER

\*\*\*\*\*  
\* ID: A86-18 \*  
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LATITUDE 12406.0  
DEPARTURE 10165.0  
ELEVATION 1950.00  
DIP -50.0  
AZIMUTH 165.0  
LENGTH 122.22  
OVERBURDEN 0.00

DRILLHOLE TYPE  
SELECTION CODE  
COLLAR CODE 1  
LOGGER INITIALS KRP  
DATE DRILLED 86  
RATIONALIZE NO  
REVISION DATE JAN 13/87  
UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
110.00	-59.0	165.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		9.97	BOT			
CD	9.97	TOP		15.50	BOT			
CC	15.50	TOP		28.40	BOT			
CD	28.40	TOP		79.05	BOT			
X	46.75	TOP		49.82	BOI			
X	51.42	TOP		56.35	BOI			
X	67.83	TOP		68.93	BOT			
AM	79.05	TOP		80.45	BOT			
CC	80.45	TOP		85.00	BOT			
CD	80.45	TOP		85.00	BOT			
AM	85.00	TOP		86.06	BOT			
CC	86.06	TOP		87.83	BOT			
CD	86.06	TOP		87.83	BOT			
AM	87.83	TOP		89.15	BOT			
CD	89.15	TOP		96.57	BOT			
AM	96.57	TOP		102.57	BOT			
CD	102.57	TOP		103.85	BOI			
C	102.57	TOP		103.85	BOT			
AM	103.85	TOP		108.37	BOT			
CD	108.37	TOP		113.38	BOT			
AM	113.38	TOP		114.15	BOT			

\*\*\*\*\*  
\* ID: A86-18 \*  
\*\*\*\*\*

UNITS/PARTINGS DATA

\*\*\*\*\*  
\* ID: A86-18 \*  
\*\*\*\*\*

\*\*\*\*\* NOTE: -99 INDICATES A MISSING VALUE. \*\*\*\*\*

UNITS				PARTINGS			
NAME	FROM	TYPE	CONF TO	TYPE	CONF	FROM	TO
CD	114.15	TOP	115.55	B01			
AM	115.55	TOP	116.45	B01			
CD	116.45	TOP	122.22	B01			

\*\*\*\*\*  
 \* ID: A86-19 \*  
 \*\*\*\*\*

DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-19 \*  
 \*\*\*\*\*

LATITUDE 12225.0  
 DEPARTURE 10218.0  
 ELEVATION 1915.00  
 DIP -52.0  
 AZIMUTH 165.0  
 LENGTH 121.70  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS KRP  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
65.50	-59.0	165.0

UNITS/PARTING DATA

UNITS				PARTINGS				
NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		10.00	BOT			
CD	10.00	TOP		20.50	BOT			
Y	19.65	TOP		20.50	BOT			
P	19.65	TOP		20.50	BOT			
CC	20.50	TOP		21.60	BOT			
CD	21.60	TOP		121.00	BOT			
Y	30.60	TOP		33.60	BOT			
X	52.50	TOP		55.50	BOT			
Y	83.00	TOP		84.75	BOT			
Y	87.75	TOP		90.75	BOT			

\*\*\*\*\*  
 \* ID: A86-20 \*  
 \*\*\*\*\*

DRILLHOLE HEADER

\*\*\*\*\*  
 \* ID: A86-20 \*  
 \*\*\*\*\*

LATITUDE 12092.0  
 DEPARTURE 10258.0  
 ELEVATION 1893.00  
 DIP -50.0  
 AZIMUTH 165.0  
 LENGTH 133.20  
 OVERBURDEN 0.00

DRILLHOLE TYPE  
 SELECTION CODE  
 COLLAR CODE 1  
 LOGGER INITIALS RJS  
 DATE DRILLED 86  
 RATIONALIZE NO  
 REVISION DATE JAN 13/87  
 UNITS METRIC

SURVEY DATA

SURVEY POINTS

DEPTH	DIP	AZIMUTH
77.40	-58.0	165.0

UNITS/PARTING DATA

UNITS

PARTINGS

NAME	FROM	TYPE	CONF	TO	TYPE	CONF	FROM	TO
OVBD	0.00	TOP		7.30	BOT			
CD	7.30	TOP		20.45	BOT			
C	16.80	TOP		20.45	BOT			
CD	20.45	TOP		22.80	BOT			
Y	20.45	TOP		22.80	BOT			
MUD	22.80	TOP		23.00	BOT			
Y	23.00	TOP		28.30	BOT			
CD	23.00	TOP		28.30	BOT			
CD	28.30	TOP		113.19	BOT			
X	44.00	TOP		50.20	BOT			
CD	52.50	TOP		65.00	BOT			
CD	65.00	TOP		68.00	BOT			
Y	65.00	TOP		68.00	BOT			
CD	68.20	TOP		77.42	BOT			
X	77.42	TOP		79.00	BOT			
C	79.00	TOP		81.80	BOT			
X	81.80	TOP		83.35	BOT			
X	93.00	TOP		96.00	BOT			
C	108.30	TOP		111.30	BOT			
CD	113.19	TOP		120.60	BOT			
Y	114.30	TOP		120.60	BOT			

**APPENDIX "E"**

**DIAMOND DRILLING ASSAY RESULTS**

<u>Zone</u>	<u>Drill Hole No.</u>
Central	A86-11 to A86-16
Saddle	A86-17, 19, 20
Saddle West	A86-18

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
RB604222	86-11	3.28	8.07	4.79	4457	0.4457
RB604223	86-11	8.07	10.94	2.87	12518	1.2518
RB604224	86-11	10.94	12.08	1.14	11074	1.1074
RB604225	86-11	12.08	12.53	0.45	13292	1.3292
RB604226	86-11	12.53	13.81	1.28	5064	0.5064
RB604227	86-11	13.81	15.02	1.21	10158	1.0158
RB604228	86-11	15.02	16.63	1.61	6486	0.6486
RB604229	86-11	16.63	17.27	0.64	13441	1.3441
RB604230	86-11	17.27	20.44	3.17	2955	0.2955
RB604231	86-11	20.44	23.56	3.12	2525	0.2525
RB604232	86-11	23.56	26.63	3.07	1796	0.1796
RB604233	86-11	26.63	29.95	3.32	1809	0.1809
RB604234	86-11	29.95	31.22	1.27	1480	0.148
RB604235	86-11	31.22	34.18	2.96	1955	0.1955
RB604236	86-11	34.18	37.68	3.5	5982	0.5982
RB604237	86-11	37.68	40.5	2.82	1639	0.1639
RB604238	86-11	40.5	40.9	0.4	3077	0.3077
RB604239	86-11	40.9	45.15	4.25	3810	0.381
RB604240	86-11	45.15	47.09	1.94	8623	0.8623
RB604241	86-11	47.09	49.39	2.3	2360	0.236
RB604242	86-11	49.39	52.5	3.11	2412	0.2412
RB604243	86-11	52.5	55.5	3	4131	0.4131
RB604244	86-11	55.5	58.6	3.1	2736	0.2736
RB604245	86-11	58.6	62.48	3.88	2927	0.2927
RB604246	86-11	62.48	65.72	3.24	2392	0.2392
RB604247	86-11	65.72	69.2	3.48	1859	0.1859
RB604248	86-11	69.2	73.2	4	3517	0.3517
RB604249	86-11	73.2	75.29	2.09	3526	0.3526
RB604250	86-11	75.29	78.43	3.14	1559	0.1559
RB604251	86-11	78.43	80.58	2.15	1233	0.1233
RB604252	86-11	80.58	81.84	1.26	1452	0.1452
RB604253	86-11	81.84	83.55	1.71	616	0.0616
RB604254	86-11	83.55	85.5	1.95	1265	0.1265
RB604255	86-11	85.5	89.25	3.75	3661	0.3661
RB604256	86-11	89.25	91.87	2.62	3560	0.356
RB604257	86-11	91.87	94.94	3.07	2240	0.224
RB604258	86-11	94.94	97.83	2.89	2145	0.2145
RB604259	86-11	97.83	104	6.17	4084	0.4084
RB604260	86-11	104	106.5	2.5	1790	0.179
RB604261	86-11	106.5	108.22	1.72	1956	0.1956
RB604262	86-11	108.22	111.56	3.34	908	0.0908
RB604263	86-11	111.56	113.07	1.51	1652	0.1652
RB604264	86-11	113.07	116.1	3.03	3208	0.3208
RB604265	86-11	116.1	119.29	3.19	3568	0.3568
RB604266	86-11	119.29	123.27	3.98	3570	0.357
RB605287	86-11	123.27	126.1	2.83	3885	0.3885
RB605288	86-11	126.1	128.44	2.34	3992	0.3992
RB605289	86-11	128.44	131.85	3.41	5518	0.5518
RB605290	86-11	131.85	136.33	4.48	3384	0.3384
RB605291	86-11	136.33	138.22	1.89	5742	0.5742
RB605292	86-11	138.22	140.77	2.55	3145	0.3145
RB605293	86-11	140.77	142.14	1.37	1079	0.1079
RB605294	86-11	142.14	145.23	3.09	1753	0.1753
RB605295	86-11	145.23	148.66	3.43	3262	0.3262
RB605296	86-11	148.66	150.57	1.91	2062	0.2062
RB605298	86-12	7.7	8.5	0.8	3291	0.3291
RB605299	86-12	8.5	9.2	0.7	21201	2.1201
RB605300	86-12	9.2	10.65	1.45	2593	0.2593
RB605301	86-12	10.65	12.65	2	4248	0.4248
RB605302	86-12	12.65	15.6	2.95	5752	0.5752

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8605303	86-12	15.6	18.6	3	3491	0.3491
R8605304	86-12	18.6	21.6	3	6099	0.6099
R8605305	86-12	21.6	24.6	3	3882	0.3882
R8605306	86-12	24.6	27.6	3	3804	0.3804
R8605307	86-12	27.6	30.6	3	2212	0.2212
R8605308	86-12	30.6	31.5	0.9	2612	0.2612
R8605309	86-12	31.5	33.9	2.4	2603	0.2603
R8605310	86-12	33.9	36.9	3	8711	0.8711
R8605311	86-12	36.9	39.9	3	6309	0.6309
R8605312	86-12	39.9	40.7	0.8	10000	1
R8605313	86-12	40.7	43.45	2.75	5361	0.5361
R8605314	86-12	43.45	43.8	0.35	16021	1.6021
R8605315	86-12	43.8	46.8	3	7725	0.7725
R8605317	86-12	46.8	49.8	3	5527	0.5527
R8605318	86-12	49.8	50.9	1.1	8828	0.8828
R8605319	86-12	50.9	53.9	3	16401	1.6401
R8605320	86-12	53.9	56.9	3	3765	0.3765
R8605321	86-12	56.9	59.9	3	2290	0.229
R8605322	86-12	59.9	62.6	2.7	4355	0.4355
R8605323	86-12	62.6	63.5	0.9	4238	0.4238
R8605324	86-12	63.5	65.6	2.1	4170	0.417
R8605325	86-12	65.6	68.6	3	5396	0.5396
R8605326	86-12	68.6	71.6	3	5547	0.5547
R8605327	86-12	71.6	73.9	2.3	5503	0.5503
R8605328	86-12	73.9	76.9	3	5361	0.5361
R8605329	86-12	76.9	79.9	3	6479	0.6479
R8605330	86-12	79.9	82.9	3	3252	0.3252
R8605331	86-12	82.9	85.7	2.8	4121	0.4121
R8605332	86-12	85.7	87.5	1.8	4614	0.4614
R8605333	86-12	87.5	88.9	1.4	3818	0.3818
R8605334	86-12	88.9	90.5	1.6	3853	0.3853
R8605335	86-12	90.5	93.5	3	3662	0.3662
R8605336	86-12	93.5	96.5	3	3530	0.353
R8605337	86-12	96.5	99.5	3	3438	0.3438
R8605338	86-12	99.5	102.5	3	2749	0.2749
R8605339	86-12	102.5	105.85	3.35	3926	0.3926
R8605341	86-12	105.85	107.5	1.65	1421	0.1421
R8605342	86-12	107.5	109.15	1.65	1519	0.1519
R8605343	86-12	109.15	113.2	4.05	3481	0.3481
R8605344	86-12	113.2	116.2	3	2432	0.2432
R8605345	86-12	116.2	117.8	1.6	3809	0.3809
R8605346	86-12	117.8	120.3	2.5	4492	0.4492
R8605347	86-12	120.3	123.3	3	4268	0.4268
R8605348	86-12	123.3	126.3	3	3711	0.3711
R8605349	86-12	126.3	128	1.7	3145	0.3145
R8605350	86-12	128	129.6	1.6	3125	0.3125
R8605351	86-12	129.6	132	2.4	2080	0.208
R8605352	86-12	132	132.7	0.7	6914	0.6914
R8605353	86-12	132.7	134.8	2.1	3574	0.3574
R8605354	86-12	134.8	136.8	2	933	0.0933
R8605355	86-12	136.8	138.7	1.9	4321	0.4321
R8605356	86-12	138.7	141.7	3	1855	0.1855
R8605357	86-12	141.7	144.7	3	4385	0.4385
R8605358	86-12	144.7	147.7	3	3506	0.3506
R8605359	86-12	147.7	149.75	2.05	15859	1.5859
R8605360	86-12	149.75	152.7	2.95	1890	0.189
R8605361	86-12	152.7	155.7	3	2690	0.269
R8605363	86-12	155.7	158.7	3	1172	0.1172
R8605364	86-12	158.7	161.3	2.6	977	0.0977
R8605365	86-12	161.3	163.35	2.05	1177	0.1177



SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8605366	86-12	163.35	165.25	1.9	1104	0.1104
R8605367	86-12	165.25	165.75	0.5	1670	0.167
R8605368	86-12	165.75	166.2	0.45	1597	0.1597
R8605369	86-12	166.2	169.2	3	4697	0.4697
R8605370	86-12	169.2	172.2	3	2920	0.292
R8605371	86-12	172.2	174.2	2	933	0.0933
R8605372	86-12	174.2	175.2	1	1382	0.1382
R8605373	86-12	175.2	178.2	3	698	0.0698
R8605374	86-12	178.2	178.92	0.72	615	0.0615
R8605442	86-13	3.88	6.88	3	5848	0.5848
R8605443	86-13	6.88	9.88	3	3353	0.3353
R8605444	86-13	9.88	13.62	3.74	2547	0.2547
R8605445	86-13	13.62	16.62	3	2370	0.237
R8605446	86-13	16.62	19.62	3	1831	0.1831
R8605447	86-13	19.62	24.62	5	3275	0.3275
R8605448	86-13	24.62	25.86	1.24	5570	0.557
R8605449	86-13	25.86	28.2	2.34	2422	0.2422
R8605450	86-13	28.2	31.2	3	2897	0.2897
R8605451	86-13	31.2	34.2	3	4764	0.4764
R8605452	86-13	34.2	35.75	1.55	3194	0.3194
R8605453	86-13	35.75	36.75	1	6178	0.6178
R8605454	86-13	36.75	38.75	2	6522	0.6522
R8605455	86-13	38.75	42.5	3.75	9052	0.9052
R8605456	86-13	42.5	44.15	1.65	9558	0.9558
R8605457	86-13	44.15	46.12	1.97	2098	0.2098
R8605458	86-13	46.12	46.86	0.74	9875	0.9875
R8605459	86-13	46.86	47.6	0.74	3255	0.3255
R8605460	86-13	47.6	50.74	3.14	1921	0.1921
R8605461	86-13	50.74	53.15	2.41	1814	0.1814
R8605463	86-13	53.15	56.15	3	3801	0.3801
R8605464	86-13	56.15	59.15	3	3040	0.304
R8605465	86-13	59.15	61.6	2.45	2891	0.2891
R8605466	86-13	61.6	65.77	4.17	90	0.009
R8605467	86-13	65.77	68.87	3.1	4934	0.4934
R8605468	86-13	68.87	70.75	1.88	6919	0.6919
R8605469	86-13	70.75	72.25	1.5	4562	0.4562
R8605470	86-13	72.25	74.25	2	4309	0.4309
R8605471	86-13	74.25	77.4	3.15	4795	0.4795
R8605472	86-13	77.4	78.1	0.7	15797	1.5797
R8605473	86-13	78.1	78.8	0.7	6586	0.6586
R8605474	86-13	78.8	80	1.2	13860	1.386
R8605475	86-13	80	83	3	5673	0.5673
R8605476	86-13	83	85.5	2.5	5797	0.5797
R8605477	86-13	85.5	88.55	3.05	507	0.0507
R8605478	86-13	88.55	89.57	1.02	17827	1.7827
R8605479	86-13	89.57	93.88	4.31	1579	0.1579
R8605480	86-13	93.88	96.97	3.09	7164	0.7164
R8605481	86-13	96.97	98.2	1.23	5198	0.5198
R8605482	86-13	98.2	99.18	0.98	10893	1.0893
R8605483	86-13	99.18	100.9	1.72	6549	0.6549
R8605484	86-13	100.9	102.5	1.6	7981	0.7981
R8605485	86-13	102.5	103.8	1.3	5141	0.5141
R8605487	86-13	103.8	105.4	1.6	31913	3.1913
R8605488	86-13	105.4	111.4	6	3173	0.3173
R8605509	86-13	108.44	111.44	3	1805	0.1805
R8605489	86-13	111.4	114.4	3	2953	0.2953
R8605490	86-13	114.4	117.2	2.8	8275	0.8275
R8605491	86-13	117.2	120.6	3.4	12654	1.2654
R8605492	86-13	120.6	122.4	1.8	4578	0.4578
R8605493	86-13	122.4	125.4	3.	4696	0.4696

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8605494	86-13	125.4	128.4	3	5166	0.5166
R8605495	86-13	128.4	130.6	2.2	2177	0.2177
R8605496	86-13	130.6	134.4	3.8	2043	0.2043
R8605497	86-13	134.4	136.5	2.1	1070	0.107
R8605498	86-13	136.5	137.2	0.7	1335	0.1335
R8605499	86-13	137.2	139.3	2.1	2404	0.2404
R8605500	86-13	139.3	141.7	2.4	2073	0.2073
R8605501	86-13	141.7	142.4	0.7	2120	0.212
R8605502	86-13	142.4	144.8	2.4	2277	0.2277
R8605503	86-13	144.8	145.3	0.5	9533	0.9533
R8605504	86-13	145.3	148.9	3.6	2632	0.2632
R8605505	86-13	148.9	151.9	3	1482	0.1482
R8605506	86-13	151.9	154.9	3	904	0.0904
R8605507	86-13	154.9	157.6	2.7	774	0.0774
R8606374	86-14	4.6	8.7	4.1	8477	0.8477
R8606375	86-14	8.7	9.7	1	11500	1.15
R8606376	86-14	9.7	10.7	1	5233	0.5233
R8606377	86-14	10.7	12.4	1.7	17756	1.7756
R8606378	86-14	12.4	15	2.6	7493	0.7493
R8606379	86-14	15	18	3	3999	0.4
R8606380	86-14	18	21	3	3184	0.3184
R8606381	86-14	21	24	3	4969	0.4969
R8606382	86-14	24	27	3	2678	0.2678
R8606383	86-14	27	30	3	5878	0.5878
R8606384	86-14	30	33	3	4454	0.4454
R8606385	86-14	33	36	3	3171	0.3171
R8606386	86-14	36	38	2	2560	0.256
R8606387	86-14	38	38.9	0.9	3182	0.3182
R8606388	86-14	38.9	40.5	1.6	2938	0.2938
R8606389	86-14	40.5	42.5	2	12575	1.2575
R8606390	86-14	42.5	44.5	2	10215	1.0215
R8606391	86-14	44.5	46.7	2.2	4943	0.4943
R8606392	86-14	46.7	49.7	3	2133	0.2133
R8606394	86-14	49.7	52.7	3	4045	0.4045
R8606395	86-14	52.7	55.7	3	1985	0.1985
R8606396	86-14	55.7	57.3	1.6	2838	0.2838
R8606397	86-14	57.3	59.5	2.2	4875	0.4875
R8606398	86-14	59.5	63	3.5	2553	0.2553
R8606399	86-14	63	65.4	2.4	4114	0.4114
R8606400	86-14	65.4	67.1	1.7	4829	0.4829
R8606401	86-14	67.1	69.8	2.7	1925	0.1925
R8606402	86-14	69.8	71.1	1.3	2408	0.2408
R8606403	86-14	71.1	72.6	1.5	4805	0.4805
R8606404	86-14	72.6	75.2	2.6	846	0.0846
R8606405	86-14	75.2	77	1.8	7083	0.7083
R8606406	86-14	77	78.2	1.2	4000	0.4
R8606407	86-14	78.2	79.4	1.2	3795	0.3795
R8606408	86-14	79.4	81	1.6	2743	0.2743
R8606409	86-14	81	81.6	0.6	398	0.0398
R8606410	86-14	81.6	82.9	1.3	1209	0.1209
R8606411	86-14	82.9	86	3.1	1660	0.166
R8606413	86-14	86	87.3	1.3	944	0.0944
R8606414	86-14	87.3	91	3.7	2087	0.2087
R8606415	86-14	91	93.6	2.6	2090	0.209
R8606416	86-14	93.6	94.9	1.3	871	0.0871
R8606417	86-14	94.9	97.9	3	1636	0.1636
R8606418	86-14	97.9	100.9	3	1107	0.1107
R8606419	86-14	100.9	103.9	3	914	0.0914
R8606420	86-14	103.9	106.9	3	1168	0.1168
R8606421	86-14	106.9	109.9	3.	1102	0.1102

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8606422	86-14	109.9	112.2	2.3	1468	0.1468
R8606423	86-14	112.2	117.6	5.4	960	0.096
R8605762	86-15	3.9	7	3.1	3988	0.3988
R8605763	86-15	7	10	3	3100	0.31
R8605764	86-15	10	11.8	1.8	1973	0.1973
R8605765	86-15	11.8	14.8	3	6123	0.6123
R8605766	86-15	14.8	17.8	3	5449	0.5449
R8605767	86-15	17.8	20.8	3	9611	0.9611
R8605768	86-15	20.8	21.5	0.7	5471	0.5471
R8605769	86-15	21.5	23.8	2.3	5448	0.5448
R8605770	86-15	23.8	26.6	2.8	10240	1.024
R8605771	86-15	26.6	29.6	3	2275	0.2275
R8605772	86-15	29.6	32.6	3	1199	0.1199
R8605773	86-15	32.6	35	2.4	2467	0.2467
R8605774	86-15	35	38	3	5502	0.5502
R8605775	86-15	38	42	4	3742	0.3742
R8605776	86-15	42	45	3	3665	0.3665
R8605777	86-15	45	48	3	2472	0.2472
R8605778	86-15	48	51	3	1228	0.1228
R8605779	86-15	51	53.3	2.3	303	0.0303
R8605780	86-15	53.3	56.3	3	321	0.0321
R8605781	86-15	56.3	57.8	1.5	2122	0.2122
R8605782	86-15	57.8	59.3	1.5	2008	0.2008
R8605783	86-15	59.3	60.7	1.4	10304	1.0304
R8605784	86-15	60.7	64.1	3.4	3368	0.3368
R8605785	86-15	64.1	67.1	3	5920	0.592
R8605786	86-15	67.1	70.1	3	5144	0.5144
R8605787	86-15	70.1	71	0.9	9977	1
R8605788	86-15	71	72	1	16827	1.6827
R8605789	86-15	72	74.28	2.28	7636	0.7636
R8605790	86-15	74.28	74.5	0.22	13604	1.3604
R8605791	86-15	74.5	77.5	3	6122	0.6122
R8605792	86-15	77.5	80	2.5	3661	0.3661
R8605793	86-15	80	81.2	1.2	15470	1.547
R8605794	86-15	81.2	82.3	1.1	4671	0.4671
R8605795	86-15	82.3	83.3	1	4698	0.4698
R8605796	86-15	83.3	85	1.7	7348	0.7348
R8605797	86-15	85	85.7	0.7	20535	2.0535
R8605798	86-15	85.7	88.7	3	5909	0.5909
R8605799	86-15	88.7	91.1	2.4	7314	0.7314
R8605800	86-15	91.1	92.8	1.7	18978	1.8978
R8605801	86-15	92.8	94.3	1.5	9054	0.9054
R8605803	86-15	94.3	95.4	1.1	3914	0.3914
R8605804	86-15	95.4	98.4	3	12077	1.2077
R8605805	86-15	98.4	101.4	3	4582	0.4582
R8605806	86-15	101.4	104.4	3	4895	0.4895
R8605807	86-15	104.4	106.4	2	3405	0.3405
R8605808	86-15	106.4	108.4	2	3526	0.3526
R8605809	86-15	108.4	111	2.6	17055	1.7055
R8605810	86-15	111	113.4	2.4	1917	0.1917
R8605811	86-15	113.4	116.6	3.2	3217	0.3217
R8605812	86-15	116.6	118.2	1.6	1220	0.122
R8605813	86-15	118.2	119	0.8	8002	0.8
R8605814	86-15	119	121.6	2.6	3554	0.3554
R8605815	86-15	121.6	124.5	2.9	2800	0.28
R8605816	86-15	124.5	126.5	2	4869	0.4869
R8605817	86-15	126.5	129.6	3.1	2485	0.2485
R8605818	86-15	129.6	131.1	1.5	5544	0.5544
R8606426	86-16	4.4	7.2	2.8	3021	0.3021
R8606427	86-16	7.2	7.8	0.6	16069	1.6069

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
RB606428	86-16	7.8	11.1	3.3	2960	0.296
RB606429	86-16	11.1	12.1	1	338	0.0338
RB606430	86-16	12.1	14	1.9	17373	1.7373
RB606431	86-16	14	15.2	1.2	28068	2.8068
RB606432	86-16	15.2	17.1	1.9	6665	0.6665
RB606433	86-16	17.1	18	0.9	2691	0.2691
RB606434	86-16	18	19.5	1.5	8607	0.8607
RB606435	86-16	19.5	22.5	3	3038	0.3038
RB606436	86-16	22.5	23.3	0.8	2853	0.2853
RB606437	86-16	23.3	24.5	1.2	4426	0.4426
RB606438	86-16	24.5	26.5	2	38067	3.8067
RB606439	86-16	26.5	29.5	3	6290	0.629
RB606440	86-16	29.5	32.2	2.7	6340	0.634
RB606441	86-16	32.2	33	0.8	32368	3.2368
RB606442	86-16	33	36	3	11728	1.1728
RB606443	86-16	36	39	3	5927	0.5927
RB606444	86-16	39	41.1	2.1	5183	0.5183
RB606445	86-16	41.1	43.1	2	3721	0.3721
RB606446	86-16	43.1	45.5	2.4	2726	0.2726
RB606447	86-16	45.5	48.5	3	2062	0.2062
RB606448	86-16	48.5	51.5	3	4513	0.4513
RB606449	86-16	51.5	52.8	1.3	5127	0.5127
RB606450	86-16	52.8	54.5	1.7	5154	0.5154
RB606451	86-16	54.5	56.8	2.3	7346	0.7346
RB606452	86-16	56.8	59.8	3	6041	0.6041
RB606453	86-16	59.8	62.8	3	9147	0.9147
RB606454	86-16	62.8	65.8	3	10446	1.0446
RB606455	86-16	65.8	67.7	1.9	5097	0.5097
RB606456	86-16	67.7	68.8	1.1	301	0.0301
RB606457	86-16	68.8	71.6	2.8	6492	0.6492
RB606458	86-16	71.6	74.6	3	6799	0.6799
RB606459	86-16	74.6	76.2	1.6	9845	0.9845
RB606460	86-16	76.2	78.5	2.3	4060	0.406
RB606461	86-16	78.5	81.5	3	3866	0.3866
RB606462	86-16	81.5	83.5	2	6665	0.6665
RB606463	86-16	83.5	86.5	3	8314	0.8314
RB606464	86-16	86.5	89.5	3	18252	1.8252
RB606465	86-16	89.5	92.5	3	6882	0.6882
RB606466	86-16	92.5	93.8	1.3	9062	0.9062
RB606467	86-16	93.8	94.5	0.7	9793	0.9793
RB606468	86-16	94.5	95.2	0.7	19662	1.9662
RB606469	86-16	95.2	98.2	3	7908	0.7908
RB606470	86-16	98.2	99.1	0.9	3142	0.3142
RB606471	86-16	99.1	100.4	1.3	1975	0.1975
RB606472	86-16	100.4	103.4	3	8639	0.8639
RB606473	86-16	103.4	106.4	3	8623	0.8623
RB606474	86-16	106.4	109.4	3	2852	0.2852
RB606475	86-16	109.4	111.1	1.7	5173	0.5173
RB606476	86-16	111.1	113	1.9	3177	0.3177
RB606477	86-16	113	114.7	1.7	4484	0.4484
RB606478	86-16	114.7	116.7	2	3155	0.3155
RB606479	86-16	116.7	119.7	3	9505	0.9505
RB606480	86-16	119.7	122.3	2.6	9454	0.9454
RB606481	86-16	122.3	124.1	1.8	1450	0.145
RB606482	86-16	124.1	125.5	1.4	1570	0.157
RB606483	86-16	125.5	128.4	2.9	2546	0.2546
RB606484	86-16	128.4	131.4	3	877	0.0877
RB606485	86-16	131.4	134.4	3	761	0.0761
RB606486	86-16	134.4	137.1	2.7	1236	0.1236
RB606487	86-16	137.1	139.4	2.3	4538	0.4538

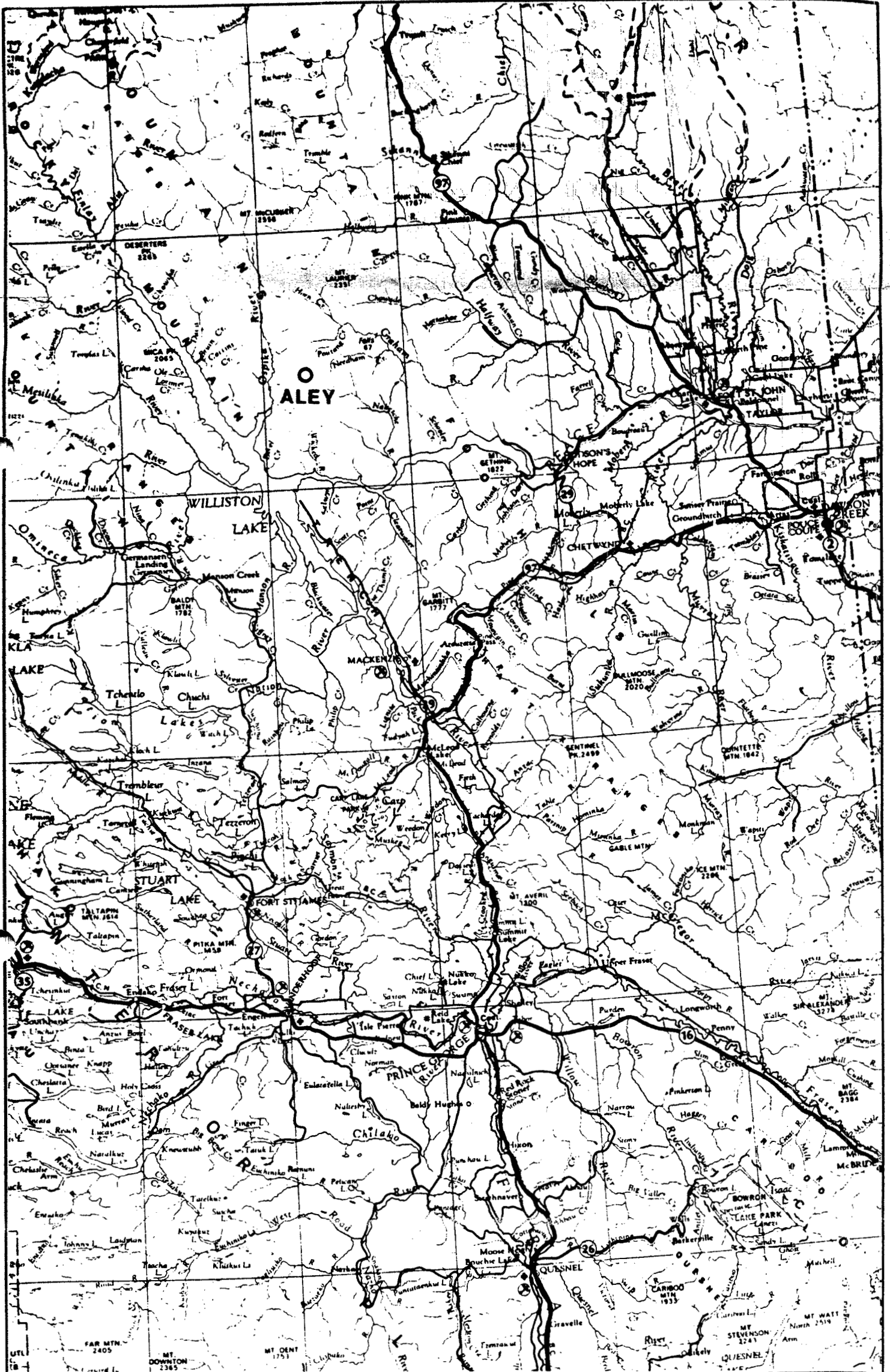
SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
RB606488	86-16	139.4	140.5	1.1	6472	0.6472
RB606489	86-16	140.5	142.8	2.3	2142	0.2142
RB606490	86-16	142.8	143.5	0.7	1675	0.1675
RB606491	86-16	143.5	146.9	3.4	3845	0.3845
RB607342	86-17	10	12.5	2.5	1507	0.1507
RB607343	86-17	12.5	14.3	1.8	3282	0.3282
RB607344	86-17	14.3	15.9	1.6	1776	0.1776
RB607345	86-17	15.9	17.3	1.4	3451	0.3451
RB607346	86-17	17.3	20.3	3	2089	0.2089
RB607347	86-17	20.3	23.3	3	5905	0.5905
RB607348	86-17	23.3	26.3	3	8596	0.8596
RB607349	86-17	26.3	29.3	3	8217	0.8217
RB607350	86-17	29.3	32.3	3	2850	0.285
RB607351	86-17	32.3	35.3	3	1809	0.1809
RB607352	86-17	35.3	36.1	0.8	1430	0.143
RB607353	86-17	36.1	39.1	3	3369	0.3369
RB607354	86-17	39.1	42.5	3.4	6213	0.6213
RB607356	86-17	42.5	45.5	3	3864	0.3864
RB607357	86-17	45.5	48.5	3	2799	0.2799
RB607358	86-17	48.5	51.2	2.7	5072	0.5072
RB607359	86-17	51.2	54.2	3	1861	0.1861
RB607360	86-17	54.2	57.2	3	1491	0.1491
RB607361	86-17	57.2	60.1	2.9	3949	0.3949
RB607362	86-17	60.1	63.1	3	12057	1.2057
RB607363	86-17	63.1	66.1	3	9023	0.9023
RB607364	86-17	66.1	69.1	3	3038	0.3038
RB607365	86-17	69.1	72.3	3.2	2464	0.2464
RB607366	86-17	72.3	73.9	1.6	1642	0.1642
RB607367	86-17	73.9	76.9	3	5856	0.5856
RB607368	86-17	76.9	80.1	3.2	4220	0.422
RB607369	86-17	80.1	82.3	2.2	2356	0.2356
RB607370	86-17	82.3	83.4	1.1	4701	0.4701
RB607371	86-17	83.4	85.1	1.7	2807	0.2807
RB607372	86-17	85.1	88.1	3	5235	0.5235
RB607373	86-17	88.1	90.4	2.3	6213	0.6213
RB607374	86-17	90.4	93.4	3	6340	0.634
RB607375	86-17	93.4	96.4	3	5480	0.548
RB607376	86-17	96.4	98.1	1.7	2829	0.2829
RB607377	86-17	98.1	101.1	3	6967	0.6967
RB607378	86-17	101.1	104	2.9	5121	0.5121
RB607379	86-17	104	107	3	5416	0.5416
RB607380	86-17	107	110	3	2883	0.2883
RB607381	86-17	110	111.7	1.7	2851	0.2851
RB607382	86-17	111.7	114.7	3	3640	0.364
RB607383	86-17	114.7	117.9	3.2	5317	0.5317
RB607384	86-17	117.9	120.7	2.8	5611	0.5611
RB607385	86-17	120.7	122.1	1.4	3865	0.3865
RB607386	86-17	122.1	123.2	1.1	5069	0.5069
RB607387	86-17	123.2	126.2	3	2230	0.223
RB607388	86-17	126.2	127.7	1.5	2771	0.2771
RB607389	86-17	127.7	130.9	3.2	2114	0.2114
RB607390	86-17	130.9	133.9	3	4536	0.4536
RB607391	86-17	133.9	136.9	3	3949	0.3949
RB607392	86-17	138	141	3	3080	0.308
RB607393	86-17	141	142.6	1.6	7445	0.7445
RB607394	86-17	142.6	145.6	3	4600	0.46
RB607396	86-17	145.6	147.6	2	3514	0.3514
RB607397	86-17	147.6	148.9	1.3	14140	1.414
RB607398	86-17	148.9	151.3	2.4	5297	0.5297
RB607399	86-17	151.3	152.7	1.4	4603	0.4603

SAMPLE NO.	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8607400	86-17	152.7	154.1	1.4	973	0.0973
R8607401	86-17	154.1	157.3	3.2	1836	0.1836
R8607402	86-17	157.3	159.3	2	1738	0.1738
R8607403	86-17	159.3	161.3	2	1951	0.1951
R8607404	86-17	161.3	162.9	1.6	3235	0.3235
R8607405	86-17	162.9	164.9	2	4987	0.4987
R8607406	86-17	164.9	167.9	3	6537	0.6537
R8607407	86-17	167.9	169.4	1.5	4729	0.4729
R8607408	86-17	169.4	172.4	3	439	0.0439
R8607409	86-17	172.4	174.9	2.5	1126	0.1126
R8607410	86-17	174.9	177.9	3	3006	0.3006
R8607411	86-17	177.9	180.9	3	3512	0.3512
R8607412	86-17	180.9	183.9	3	1184	0.1184
R8607413	86-17	183.9	187	3.1	2011	0.2011
R8607414	86-17	187	190	3	2396	0.2396
R8607415	86-17	190	191.5	1.5	1375	0.1375
R8607416	86-17	191.5	192.3	0.8	4724	0.4724
R8607417	86-17	192.3	194.9	2.6	2867	0.2867
R8607418	86-17	194.9	198.2	3.3	1255	0.1255
R8607419	86-17	198.2	200	1.8	3760	0.376
R8607420	86-17	200	201.9	1.9	2732	0.2732
R8607421	86-17	201.9	204.2	2.3	2147	0.2147
R8607422	86-17	204.2	207.4	3.2	1850	0.185
R8607423	86-17	207.4	210.4	3	6330	0.633
R8607425	86-17	210.4	211.7	1.3	8370	0.837
R8607426	86-17	211.7	213.4	1.7	1701	0.1701
R8607427	86-17	213.4	214.7	1.3	5923	0.5923
R8607428	86-17	214.7	217.8	3.1	5047	0.5047
R8607429	86-17	217.8	220.4	2.6	3577	0.3577
R8607430	86-17	220.4	221.6	1.2	1898	0.1898
R8605511	86-18	9.14	12.14	3	5754	0.5754
R8605512	86-18	12.14	15.5	3.36	7084	0.7084
R8605513	86-18	15.5	18.5	3	6495	0.6495
R8605514	86-18	18.5	20.65	2.15	5270	0.527
R8605515	86-18	20.65	23.4	2.75	5109	0.5109
R8605516	86-18	23.4	26.4	3	2974	0.2974
R8605517	86-18	26.4	28.4	2	2274	0.2274
R8605518	86-18	28.4	31.4	3	4550	0.455
R8605519	86-18	31.4	34.4	3	4989	0.4989
R8605520	86-18	34.4	37.4	3	9971	1
R8605521	86-18	37.4	41	3.6	6662	0.6662
R8605523	86-18	41	43	2	3406	0.3406
R8605524	86-18	43	44.5	1.5	2835	0.2835
R8605525	86-18	44.5	46.75	2.25	4241	0.4241
R8605526	86-18	46.75	49.82	3.07	1827	0.1827
R8605527	86-18	49.82	51.42	1.6	3125	0.3125
R8605528	86-18	51.42	53.42	2	3407	0.3407
R8605529	86-18	53.42	56.35	2.93	3483	0.3483
R8605530	86-18	56.35	60.04	3.69	3601	0.3601
R8605531	86-18	60.04	62.35	2.31	549	0.0549
R8605532	86-18	62.35	65.35	3	3671	0.3671
R8605533	86-18	65.35	67.83	2.48	3505	0.3505
R8605534	86-18	67.83	68.93	1.1	2997	0.3
R8605535	86-18	68.93	74.93	6	1836	0.1836
R8605536	86-18	74.93	77.93	3	5779	0.5779
R8605537	86-18	77.93	79.05	1.12	331	0.0331
R8605538	86-18	79.05	79.8	0.75	2302	0.2302
R8605539	86-18	79.8	80.45	0.65	4098	0.4098
R8605540	86-18	80.45	82.77	2.32	4993	0.4993
R8605541	86-18	82.77	85	2.23	5420	0.542

SAMPLE NO	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8605542	86-18	85	86.06	1.06	3967	0.3967
R8605543	86-18	86.06	87.83	1.77	3170	0.317
R8605544	86-18	87.83	89.15	1.32	2226	0.2226
R8605545	86-18	89.15	92.15	3	3132	0.3132
R8605546	86-18	92.15	95.15	3	5476	0.5476
R8605547	86-18	95.15	96.57	1.42	7264	0.7264
R8605548	86-18	96.57	99.57	3	1578	0.1578
R8605549	86-18	99.57	102.57	3	912	0.0912
R8605550	86-18	102.57	103.85	1.28	6237	0.6237
R8605552	86-18	103.85	106.85	3	908	0.0908
R8605553	86-18	106.85	108.37	1.52	787	0.0787
R8605554	86-18	108.37	111.37	3	3296	0.3296
R8605555	86-18	111.37	112.8	1.43	2392	0.2392
R8605556	86-18	112.8	113.83	1.03	3455	0.3455
R8605557	86-18	113.83	114.15	0.32	938	0.0938
R8605558	86-18	114.15	115.55	1.4	3188	0.3188
R8605559	86-18	115.55	116.45	0.9	143	0.0143
R8605560	86-18	116.45	119.45	3	5438	0.5438
R8605561	86-18	119.45	122.22	2.77	7689	0.7689
R8605719	86-19	10	12.6	2.6	4630	0.463
R8605720	86-19	12.6	16.6	4	7495	0.7495
R8605721	86-19	16.6	19.6	3	3612	0.3612
R8605722	86-19	19.6	20.5	0.9	1312	0.1312
R8605723	86-19	20.5	21.6	1.1	6886	0.6886
R8605724	86-19	21.6	24.6	3	6025	0.6025
R8605725	86-19	24.6	27.6	3	6498	0.6498
R8605726	86-19	27.6	30.6	3	5470	0.547
R8605727	86-19	30.6	33.6	3	7702	0.7702
R8605728	86-19	33.6	36.6	3	6163	0.6163
R8605729	86-19	36.6	37.9	1.3	4642	0.4642
R8605730	86-19	37.9	40.5	2.6	4692	0.4692
R8605731	86-19	40.5	43.5	3	4429	0.4429
R8605732	86-19	43.5	46.3	2.8	6501	0.6501
R8605733	86-19	46.3	49.5	3.2	4028	0.4028
R8605734	86-19	49.5	52.5	3	3441	0.3441
R8605735	86-19	52.5	55.5	3	2595	0.2595
R8605736	86-19	55.5	58.5	3	5765	0.5765
R8605737	86-19	58.5	61.5	3	4073	0.4073
R8605738	86-19	61.5	64.5	3	3997	0.4
R8605739	86-19	64.5	67.5	3	5580	0.558
R8605740	86-19	67.5	70.5	3	6333	0.6333
R8605741	86-19	70.5	73.5	3	10848	1.0848
R8605742	86-19	73.5	77	3.5	6745	0.6745
R8605743	86-19	77	80	3	11302	1.1302
R8605744	86-19	80	81.5	1.5	5868	0.5868
R8605745	86-19	81.5	83	1.5	6042	0.6042
R8605746	86-19	83	84.7	1.7	912	0.0912
R8605747	86-19	84.7	87.7	3	3838	0.3838
R8605748	86-19	87.7	90.7	3	2801	0.2801
R8605749	86-19	90.7	93.7	3	2935	0.2935
R8605751	86-19	93.7	96.7	3	738	0.0738
R8605752	86-19	96.7	99.7	3	266	0.0266
R8605753	86-19	99.7	102.7	3	1377	0.1377
R8605754	86-19	102.7	105.7	3	1065	0.1065
R8605755	86-19	105.7	108.7	3	2015	0.2015
R8605756	86-19	108.7	111.7	3	1817	0.1817
R8605757	86-19	111.7	114.7	3	6059	0.6059
R8605758	86-19	114.7	117.7	3	7180	0.718
R8605759	86-19	117.7	121.7	4	7048	0.7048
R8606493	86-20	5.3	7.3	2.	5002	0.5

SAMPLE NO	DDH#	FROM	TO	LENGTH (M)	NB205PPM	NB205%
R8606494	86-20	7.3	11	3.7	4040	0.404
R8606495	86-20	11	14	3	4910	0.491
R8606496	86-20	14	17	3	3117	0.3117
R8606497	86-20	17	20	3	5944	0.5944
R8606498	86-20	20	23	3	2488	0.2488
R8606499	86-20	23	24.7	1.7	1088	0.1088
R8606500	86-20	24.7	26	1.3	1150	0.115
R8606501	86-20	26	29	3	1313	0.1313
R8606502	86-20	29	32	3	4142	0.4142
R8606503	86-20	32	35	3	5706	0.5706
R8606504	86-20	35	38	3	1036	0.1036
R8606505	86-20	38	41	3	3942	0.3942
R8606506	86-20	41	42.5	1.5	1519	0.1519
R8606507	86-20	42.5	44	1.5	4916	0.4916
R8606508	86-20	44	47.5	3.5	3590	0.359
R8606509	86-20	47.5	50.2	2.7	4470	0.447
R8606510	86-20	50.2	52.5	2.3	6295	0.6295
R8606511	86-20	52.5	53.9	1.4	6295	0.6295
R8606512	86-20	53.9	55.5	1.6	6412	0.6412
R8606513	86-20	55.5	58.6	3.1	4261	0.4261
R8606514	86-20	58.6	61.9	3.3	6498	0.6498
R8606515	86-20	61.9	65	3.1	4811	0.4811
R8606516	86-20	65	68	3	2339	0.2339
R8606517	86-20	68	71	3	5190	0.519
R8606518	86-20	71	74	3	4337	0.4337
R8606519	86-20	74	77	3	5554	0.5554
R8606520	86-20	77	81	4	4018	0.4018
R8606521	86-20	81	84	3	5260	0.526
R8606522	86-20	84	86	2	5974	0.5974
R8606523	86-20	86	87	1	5458	0.5458
R8606524	86-20	87	90	3	4695	0.4695
R8606525	86-20	90	93	3	5497	0.5497
R8606526	86-20	93	96	3	3436	0.3436
R8606527	86-20	96	99	3	4228	0.4228
R8606528	86-20	99	102	3	4468	0.4468
R8606529	86-20	102	105	3	9687	0.9687
R8606530	86-20	105	108.3	3.3	4639	0.4639
R8606531	86-20	108.3	114.3	6	3047	0.3047
R8606532	86-20	114.3	116.5	2.2	2460	0.246
R8606533	86-20	116.5	117.3	0.8	2384	0.2384
R8606534	86-20	117.3	120.6	3.3	1622	0.1622
R8606535	86-20	120.6	123.6	3	3281	0.3281
R8606536	86-20	123.6	126.6	3	5749	0.5749
R8606537	86-20	126.6	129.6	3	4234	0.4234
R8606538	86-20	129.6	133.2	3.6	2929	0.2929
R8606539	86-20	133.2	135.7	2.5	4847	0.4847





Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

# ALEY PROPERTY *KRP*

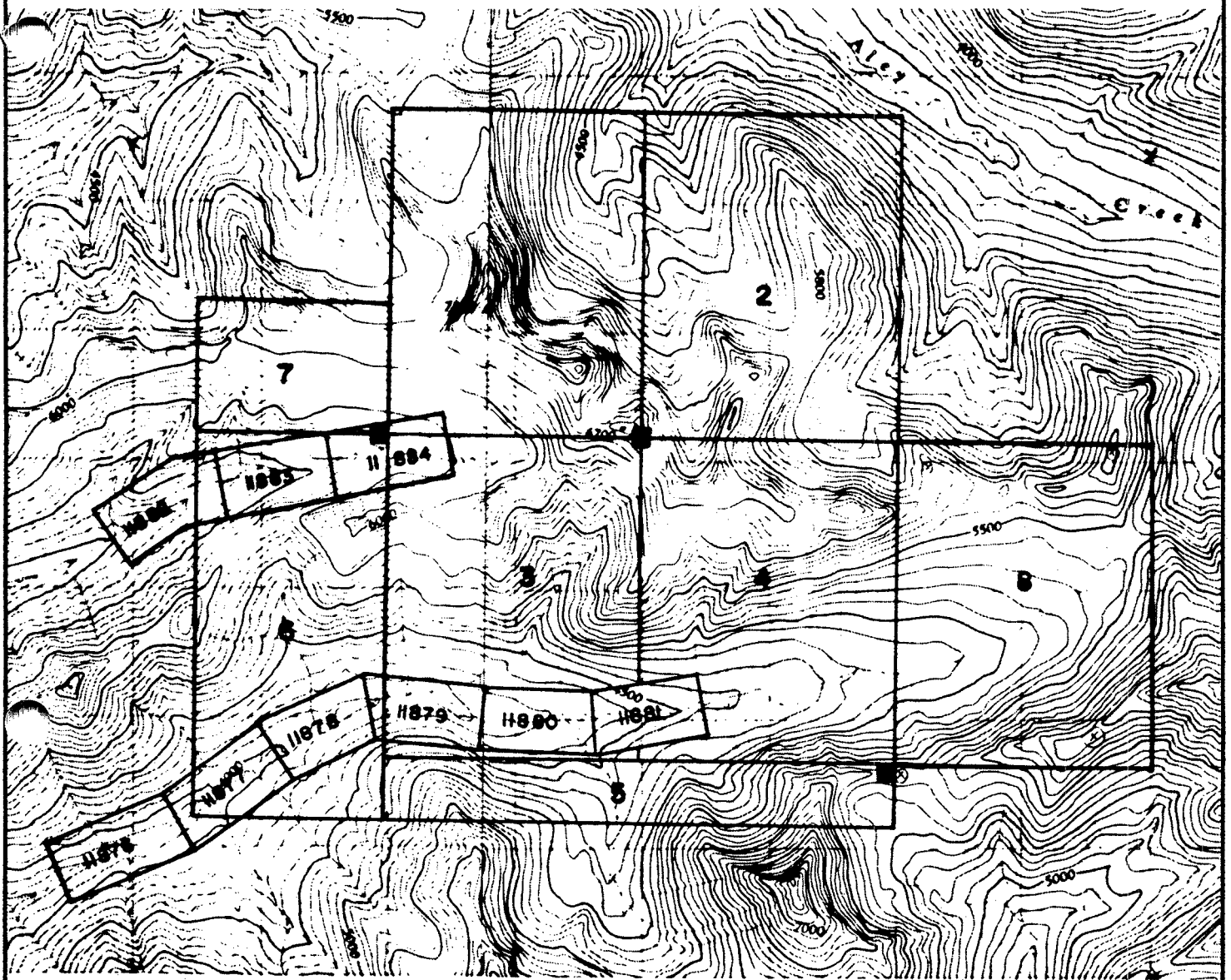
## LOCATION MAP

Scale: 1:2,000,000      Date: FEB. 1987      Plate: 1

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,484**

# ALEY PROPERTY



## LEGEND



PLACER LEASE



MINERAL CLAIM



N.T.S.  
94 B/5

Drawn by:		Traced by:	
Drawn by	Date	Traced by	Date

## CLAIM LOCATION MAP

Scale: 1:50,000      Date: FEB., 1987      Plate: 6 2

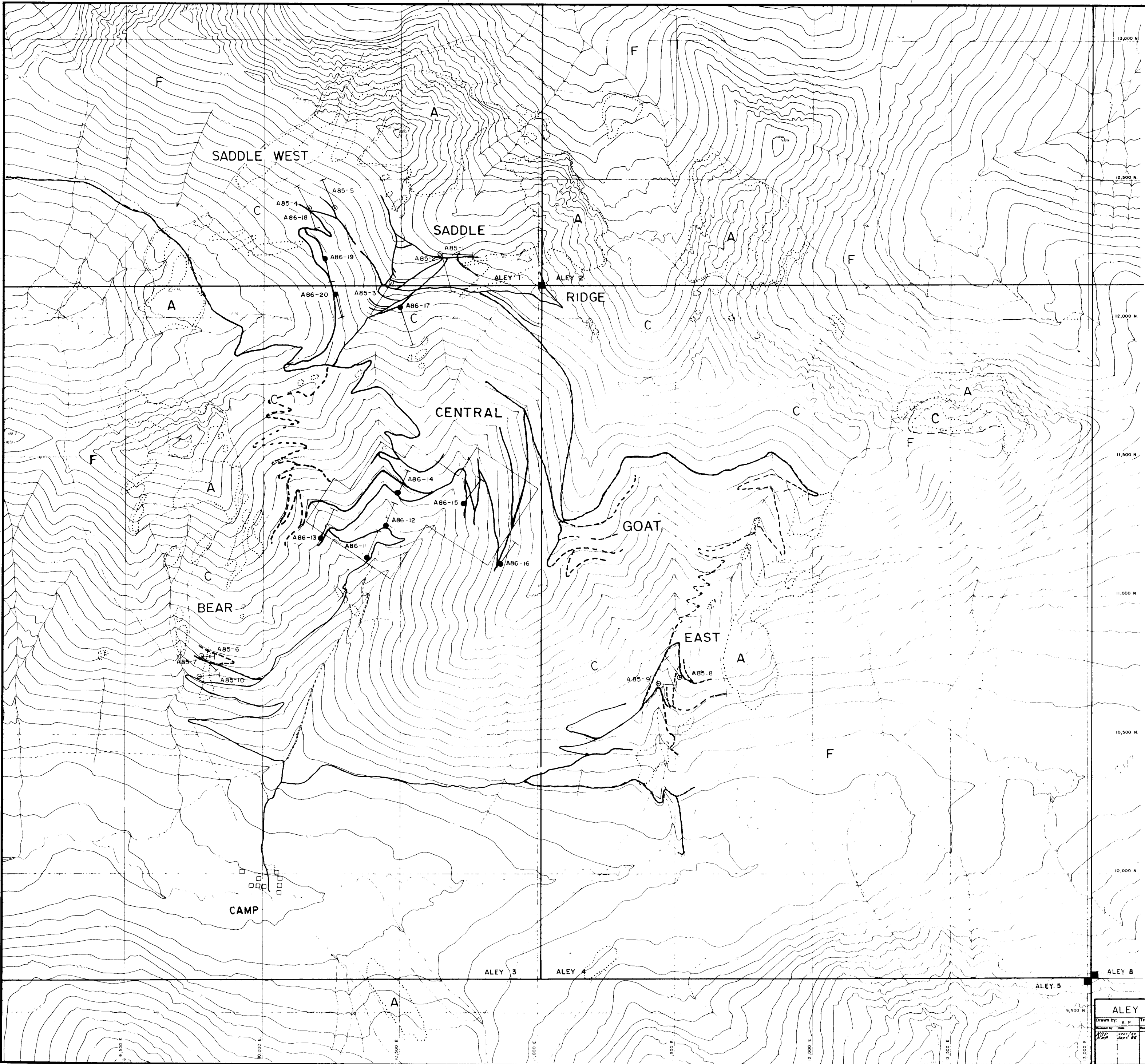
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,484









# 16,484

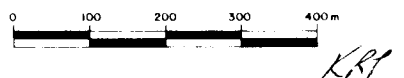
GEOLOGICAL BRANCH  
ASSESSMENT REPORT



-  magnetometer grid
-  jeep roads
-  cat roads

-  Fenite
-  Amphibolite
-  Carbonatite
-  Diatreme breccia

-  A86-13 1986 Drilling
-  A85-3 1985 Drilling



**ALEY PROPERTY**

Drawn by	Traced by	Checked by	Date

Scale 1:10,000 Date Sept 9, 1983 Plate 3



LEGEND

STRIP

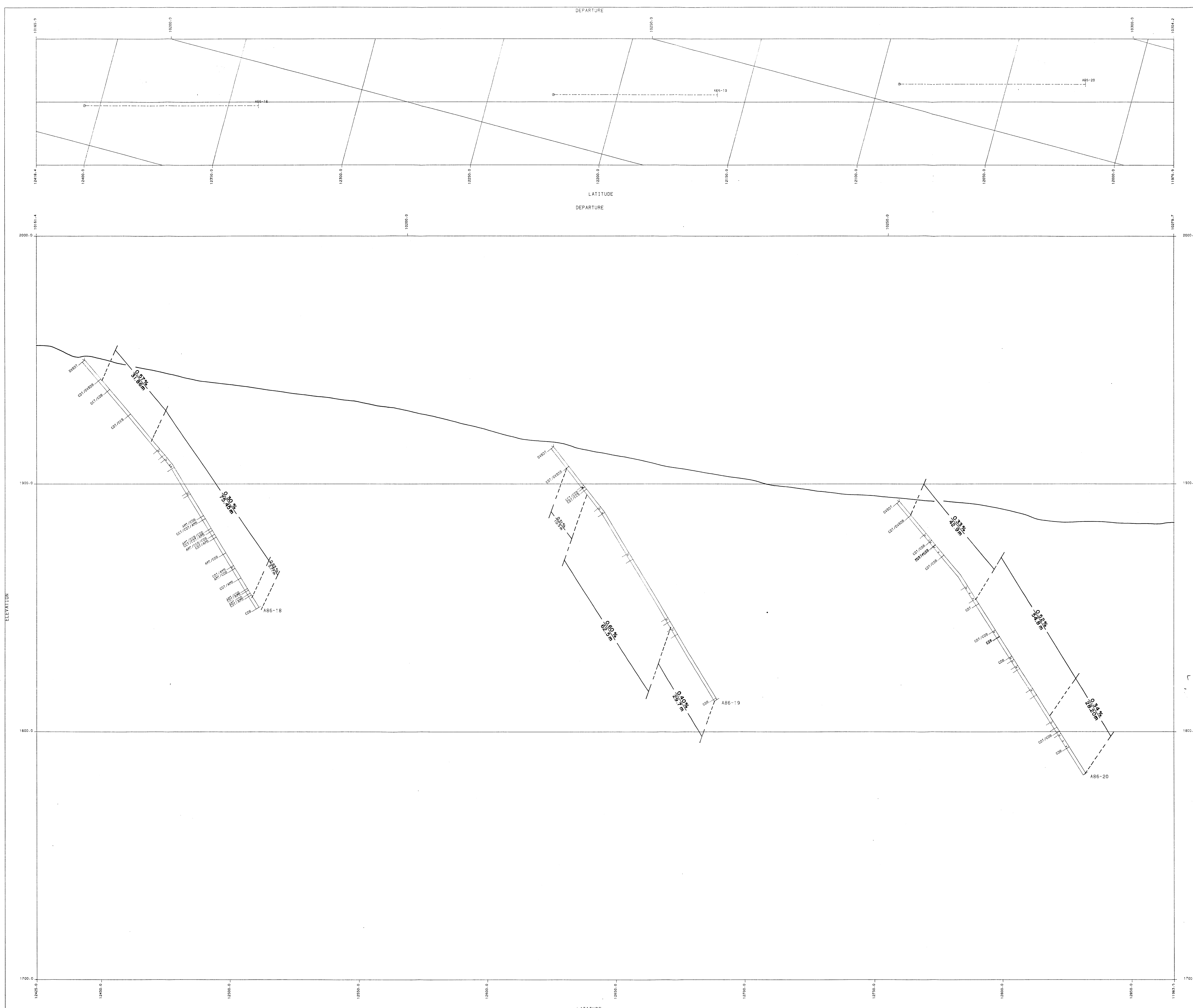
DM TRACE

STRIP 1 UNITS

- AM AMPHIBOLITE
- CE CARBONATITE GALEITE
- CD CARBONATITE DOLOMITIC
- CSL SUGAR CONG
- CRD CRD
- CRD OVERBAND
- GDG CARBONATITE GALEITE DOLOMITIC
- AMH AMPHIBOLITE AND MIXED GALEITE
- AMH AMPHIBOLITE GALEITE
- AMH AMPHIBOLITE DOLOMITIC
- M MAGNETITE DISSEMINATED
- MM MAGNETITE MASSIVE

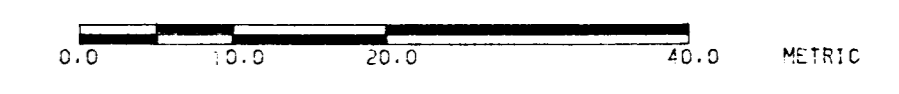
STRIP 1 MODIFIERS

- A AMPHIBOLITE
- B TRACHYANAL BRECCIA
- C GALEITE
- D DOLOMITIC
- F PNEUMOTIC
- X CARBONATE BRECCIA
- Y DYE



GEOLOGICAL BRANCH  
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VOLUME SPECIFICATIONS		SCALE	
N	E	1:500	SM
12425.0	10161.4		
11963.5	10279.7		
	EL	1700.0	2000.0
			SECTION

ALEY-SADDLE & SADDLE WEST

DRAWN BY: GEDES	TRACED BY:		
REQUESTED BY:	NUMBER:		
DATE:	TIME:		
D.D.H. SECTION: HOLES AB6-18, 19, 20		SCALE: 1:500	DATE: APR 21 1987
		CM SM	TIME: 13:23:02
			PLATE: 86 - 9

DEPARTURE

LATITUDE  
DEPARTURE

LEGEND

STRIP

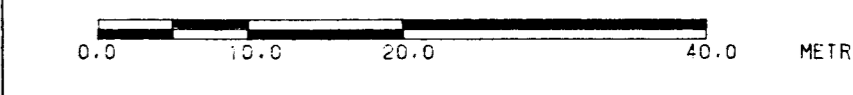
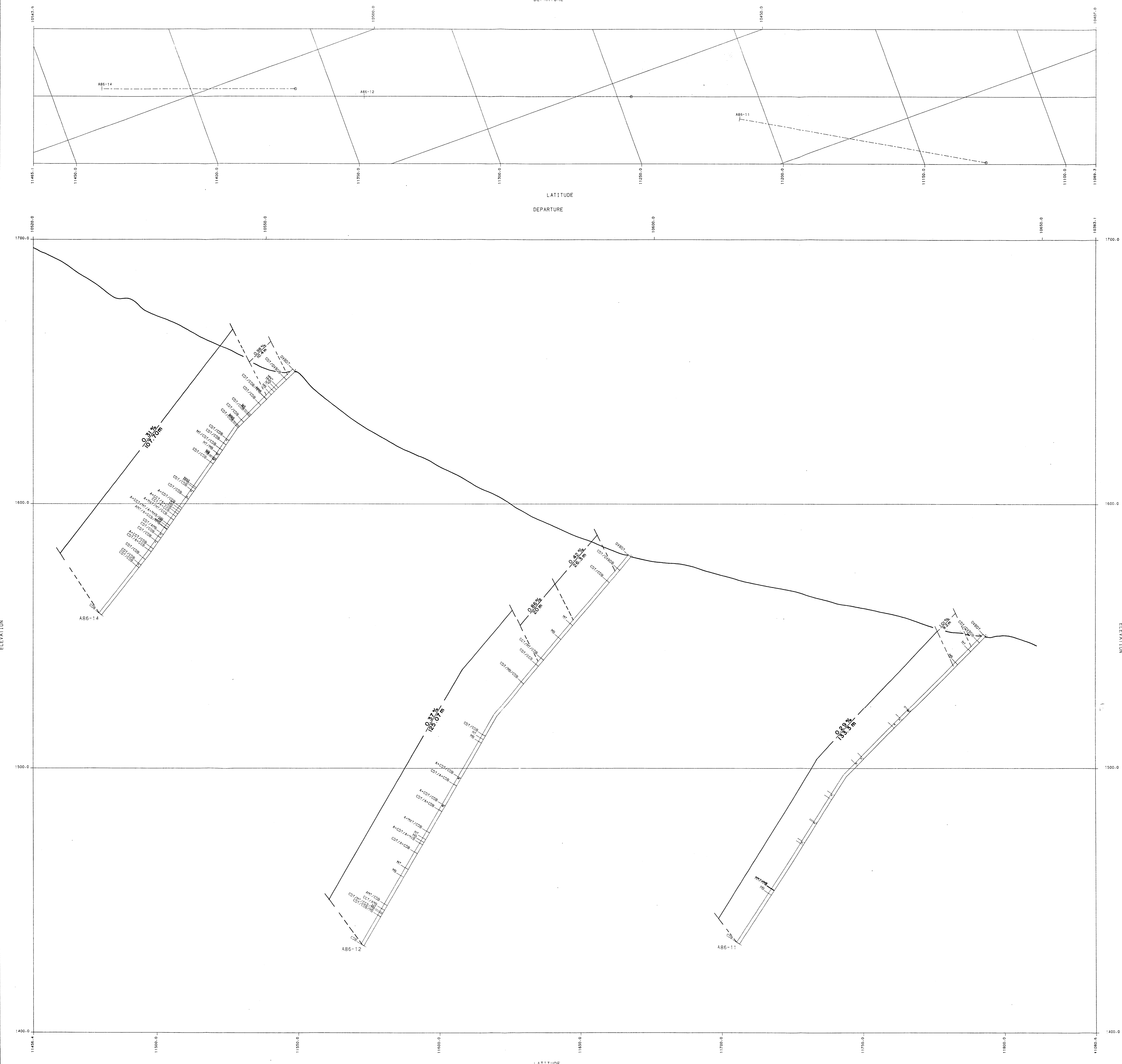
DW TRACE

STRIP 1 UNITS

- AM AMPHIBOLITE
- CC CARBONATE CALCITE
- CD CARBONATE DOLOMITE
- SH SHEAL ZONE
- DISS DISSIDE
- QDR QUARTZITE
- CCD CARBONATE, CALCITIC DOLOMITE
- A-MX AMPHIBOLITE AND MIXED CC-CD
- A-CC AMPHIB & CARBONATE, CALCITIC
- A-CD AMPHIB & CARBONATE, DOLOMITE
- M MAGNETITE, DISSEMINATED
- MR MAGNETITE, MASSIVE

STRIP 1 MODIFIERS

- A AMPHIBOLITIC
- B FRAGMENTAL BRECCIA
- C CALCITIC
- D DOLOMITIC
- F PHOLOGITIC
- X CARBONATE BRECCIA
- Y DIKE



VOLUME SPECIFICATIONS		SCALE: 1 CM = 500.0 M	
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	11080.6	EL	1400.0
			1700.0

ALEY - CENTRAL ZONE

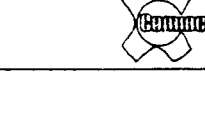
DRAWN BY: COPIES	TRACED BY:
REQUESTED BY: K. R. PROSE	REVIEWED BY: KRP
APPROVED BY: [Signature]	

D.D.H. SECTION: HOLES  
A86-11, 12, 14

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,484

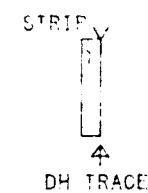
KRP



SCALE: 1 CM = 500.0 M  
DATE: APR 21 1987  
TIME: 13:25:02  
PLATE: 86 - 4

DEPARTURE

LEGEND



STRIP 1 UNITS

- AM AMPHIBOLITE
- CC CARBONATITE, CALCITIC
- CD CARBONATITE, DOLOMITIC
- SHER SHEAR ZONE
- OXID OXIDE
- DYSD DYSDERDEN
- CCCD CARBONATITE, CALCITIC, DOLOMITIC
- A+MX AMPHIBOLITE AND MIXED CC CD
- A+CC AMPHIB & CARBONATITE, CALCITIC
- A+CD AMPHIB & CARBONATITE, DOLOMITIC
- M MAGNETITE, DISSEMINATED
- MX MAGNETITE, MASSIVE

STRIP 1 MODIFIERS

- A AMPHIBOLITIC
- B FRAGMENTAL BRECCIA
- C CALCITIC
- D DOLOMITIC
- P PHILOSPHITIC
- X CARBONATE BRECCIA
- Y DIKE

LATITUDE  
DEPARTURE

ELEVATION

ELEVATION

ELEVATION

LATITUDE

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,484

0.0 10.0 20.0 40.0 METRIC

VOLUME SPECIFICATIONS

N 11251.0 E 10925.0 EL 1600.0  
11253.3 0852.5 1900.0

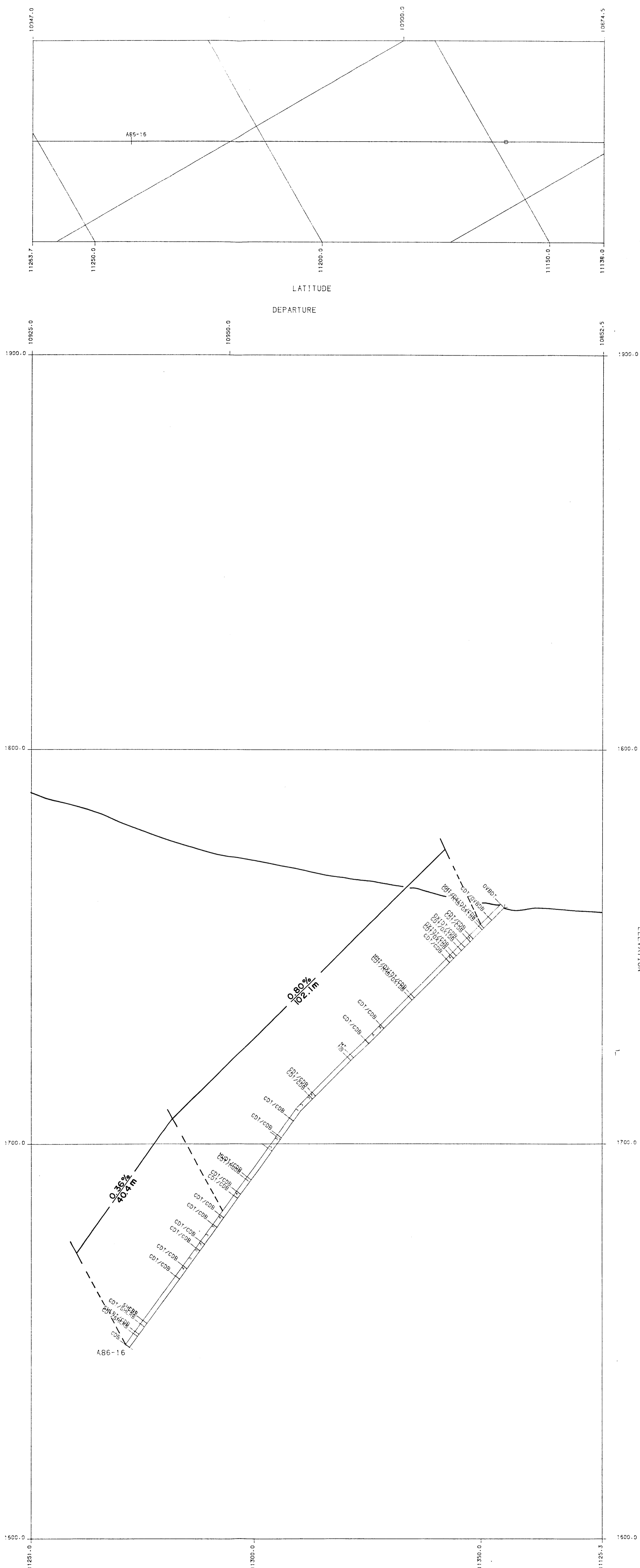
SCALE: 1 CM = 500. SM  
RANGE: 25.  
SECTION:

ALEY - CENTRAL ZONE

DRAWN BY:	CEGES	TRACED BY:	
REQUESTED BY:	K. R. PRIDE	REVISION:	DATE
REVISION:	DATE		

D.D.H. SECTION  
A86-16

SCALE: 1 CM = 500. SM DATE: APR 21 1987 TIME: 13:23:02 PLATE: 66 - 7



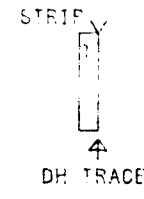
A86-16





DEPARTURE

LEGEND



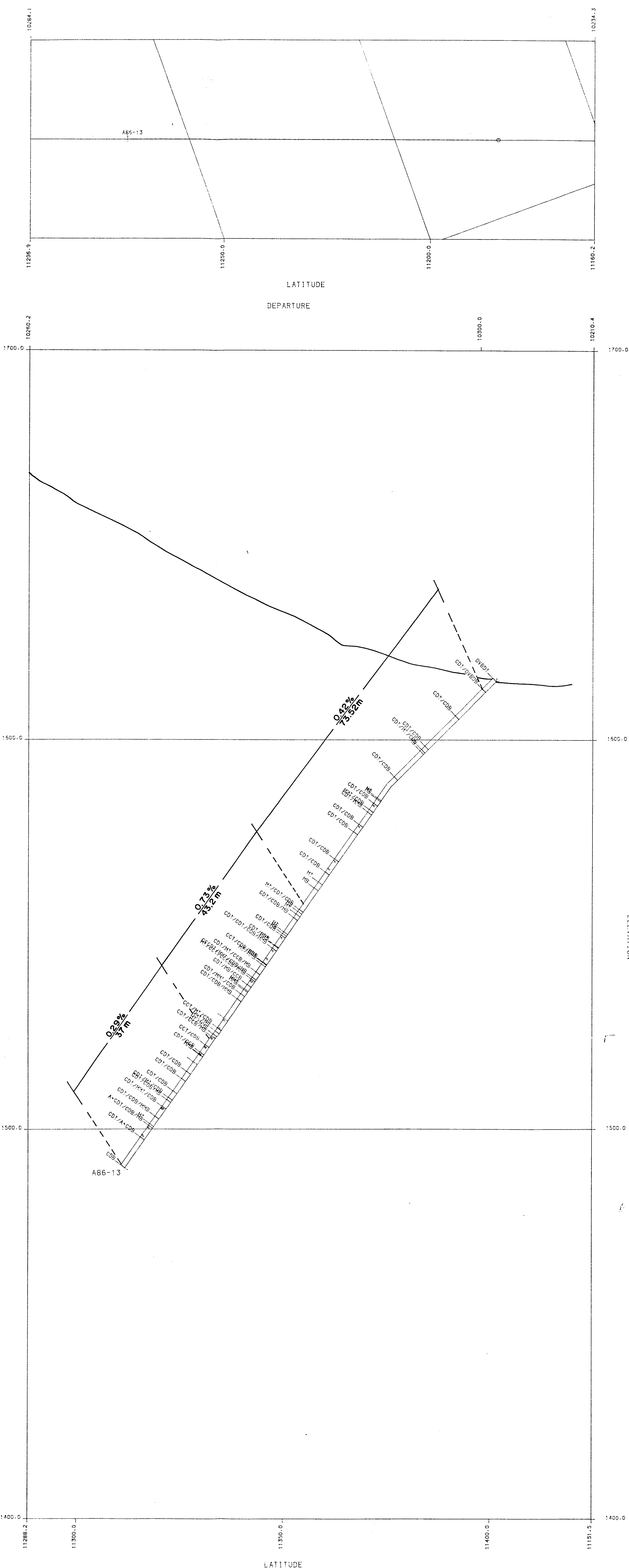
STRIP 1 UNITS

- AM AMPHIBOLITE
- CC CARBONATE CALCITE
- CD CARBONATE DOLOMITE
- SHZ SHEAR ZONE
- OXID OXIDE
- DYB OVERBURDEN
- CCD CARBONATE, CALCITIC-DOLOMITIC
- AMX AMPHIBOLITE AND MIXED CC CD
- ACI AMPHIB & CARBONATE, CALCITIC
- ACD AMPHIB & CARBONATE, DOLOMITIC
- M MAGNETITE, DISSEMINATED
- MX MAGNETITE, MASSIVE

STRIP 1 MODIFIERS

- A AMPHIBOLITIC
- B FRAGMENTAL BRECCIA
- C CALCITIC
- D DOLOMITIC
- P PHLOGOPITIC
- X CARBONATE BRECCIA
- Y DIKE

LATITUDE  
DEPARTURE

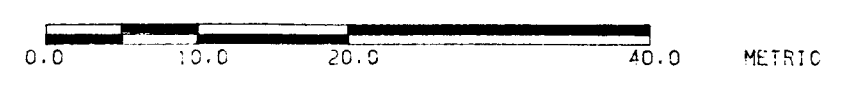


ELEVATION

ELEVATION

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,484



VOLUME SPECIFICATIONS		SCALE: 1 CM = 500. SM
N 11286.2	E 10260.2	RANGE: 25. SECTION:
11151.5	10210.4	

ALEY - CENTRAL ZONE

DRAWN BY: GEORES	TRACED BY:	D.D.H. SECTION A86-13
REQUESTED BY: K. R. PRIDE	DATE:	
DATE:	DATE:	SCALE: 1 CM = 500. SM
		DATE: APR 21 1967 TIME: 13:23:02
		PLATE: 86 - 5

