'83-376-#11331

REPORT ON
GEOLOGY AND GEOCHEMISTRY
OF THE HOODOO CLAIM GROUP

NTS 104B/14,
Lat. 56°48'N Long. 131°18'E,
LIARD MINING DIVISION

OWNED AND OPERATED BY
KERR ADDISON MINES LTD.

Peter Holbek
Oct, 1983

PART 2 OF 2

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1. INTRODUCTION

1.1 Location and Access

The Hoodoo Claim group, located 125km northwest of Stewart, B.C.; is situated on a narrow spur of land immediately north of Hoodoo Mountain. The area lies within the Liard Mining Division, NTS mapsheet 104B/14W at latitude 56°48'N and longitude 131°18'E. The Iskut River flows 8km south of the property and is navigable, by small craft, up to the Twin River.

Property access is restricted to helicopter which may be chartered from Stewart, B.C. or from Wrangell, Alaska. Arrangements can be made to access the property by helicopter from gravel airstrips at Bob Quinn Lake, 70km to the east on the Stewart-Cassiar highway, or from Snippaker Creek, 45km to the southeast. Both airstrips are served by fixed wing aircraft of Trans Provincial Airways from Terrace, B.C.

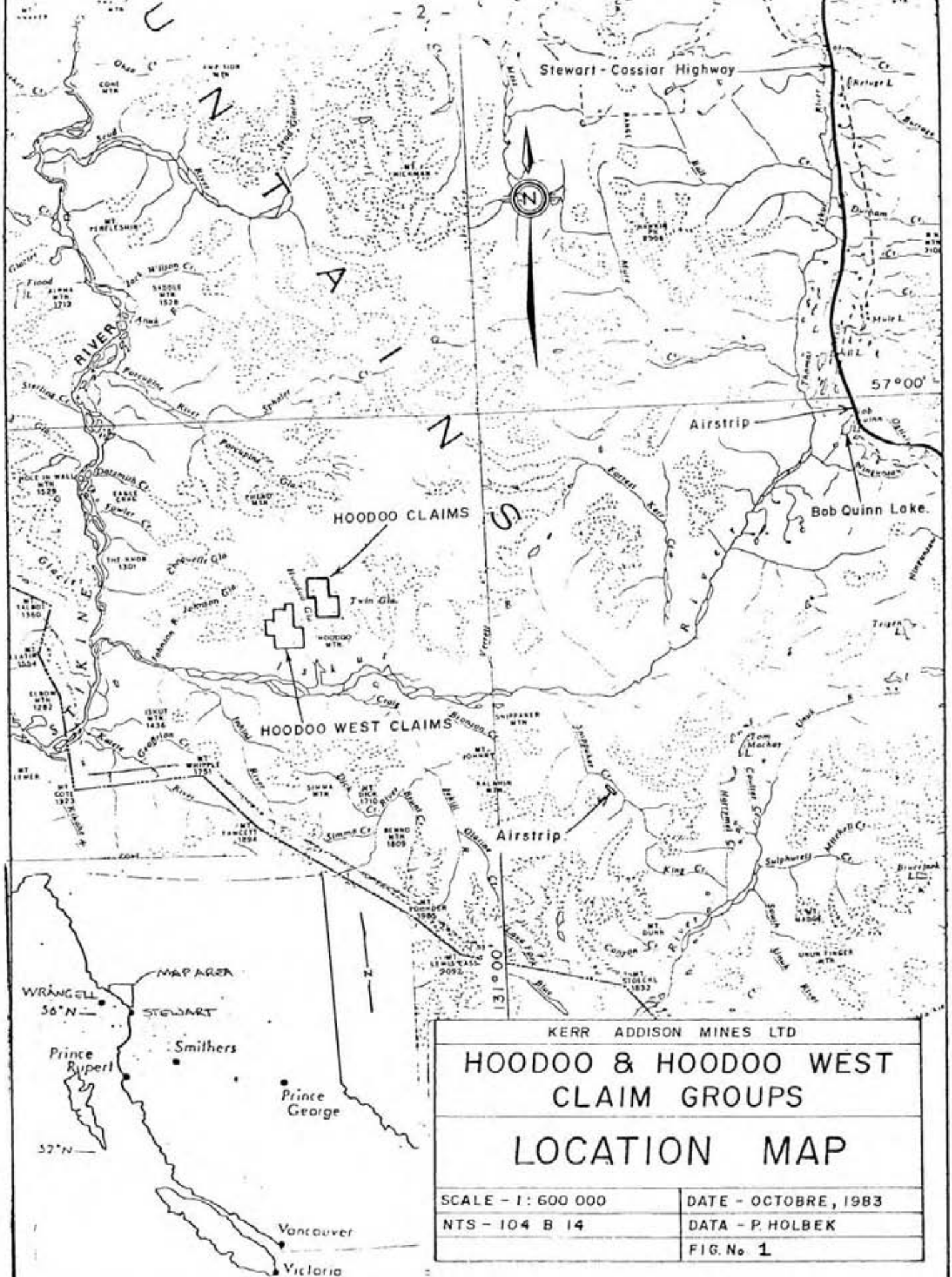
1.2 Claims and History

The Hoodoo group is comprised of 61 units in five claims and is owned by Kerr Addison Mines Ltd. Claim data are summarized below.

There is no record of work on the claim area previous to staking by Kerr Addison although considerable exploration has been conducted in the region for many years.

Table 1. Hoodoo Group Claim Data

CLAIM NAME	OWNER	UNITS	DATE LOCATED	DATE RECORDED	NO.
Hoodoo 1	Kerr Addison	10	Aug 15,1982	Sept. 8,1982	2447
" 2	" "	15	"	"	2448
" 3	" "	15	"	"	2449
" 4	" "	20	"	"	2450
" 5	" "	1	"	"	2451



KERR ADDISON MINES LTD

HOODOO & HOODOO WEST CLAIM GROUPS

LOCATION MAP

SCALE - 1 : 600 000	DATE - OCTOBRE, 1983
NTS - 104 B 14	DATA - P. HOLBEK
	FIG. No 1

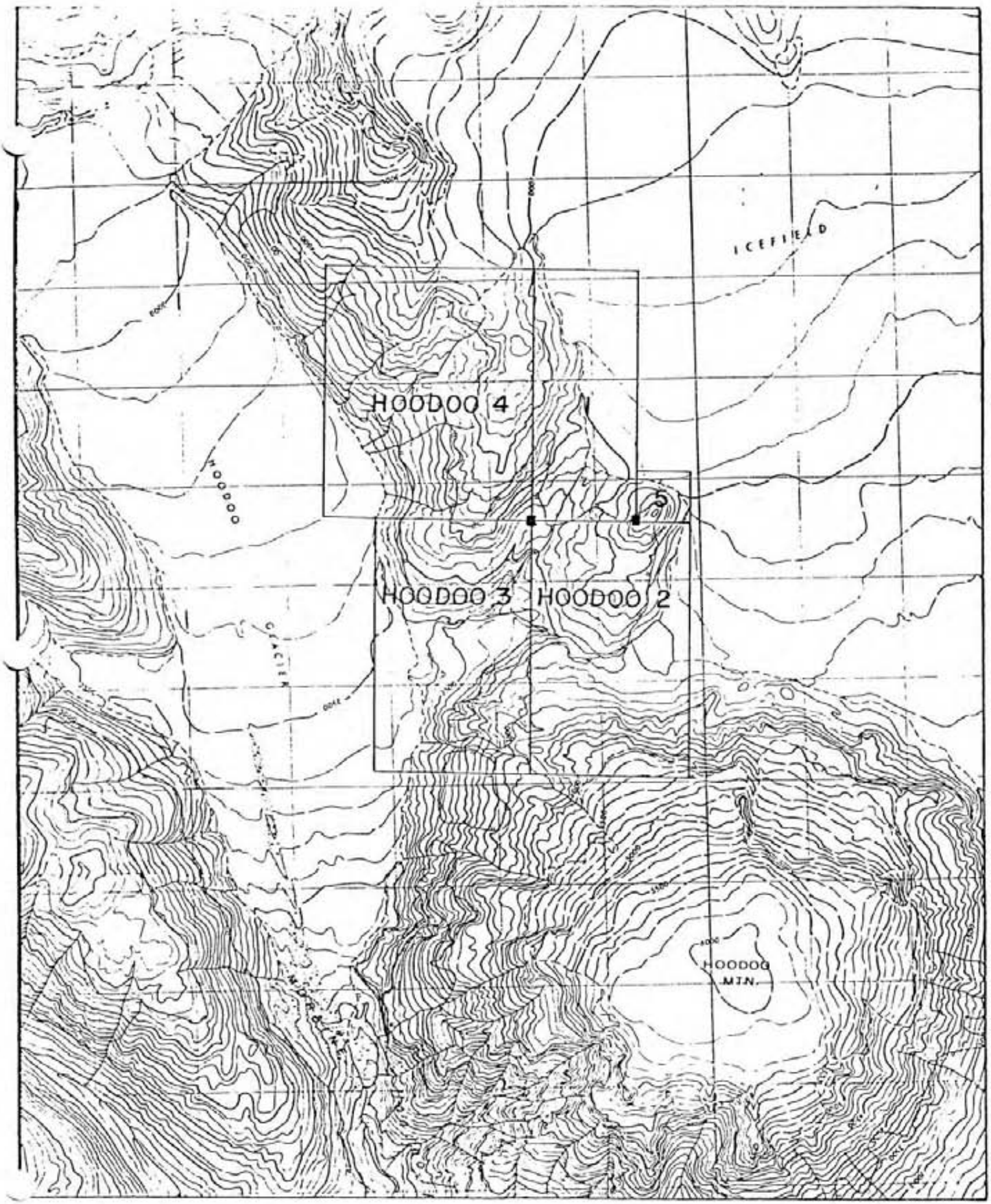


Figure 2: Claim Map, Hoodoo Claims; 56°48'N, 131°18'E, NTS 104 B/14W

1.3 Physiography

Located on a northerly trending ridge of land, on the southern margin of a large icefield, the property is virtually surrounded by ice. Elevations range from 700 to 1,400m and, with the exception of a few relatively mature stands of timber, the vegetation is alpine. Recent glacial retreat provides good bedrock exposure over much of the area.

Topography is very much controlled by bedrock. Steep foliation and extensive faulting in competent volcanics on the north end of the property has resulted in extremely hummocky terrain. Basalt flows on the south end of the claims form numerous cliffs and erosion of poorly consolidated young volcanics has produced deep canyons in stream beds.

1.4 Work Done

A total of 48 man days were spent on the property prospecting, sampling and mapping between July 10th and August 25th, 1983. Work was conducted from a fly camp, located on the north end of the claim group. Personnel and supplies were transported by helicopter from Snippaker airstrip. 131 rock samples and 65 soil samples were collected and analyzed for Au, Ag, Hg, As, Sb, and Ba. All geochemical silver analyses greater than 10 ppm were also assayed. Additionally, 45 "suspect" geochemical analyses were re analyzed using a different technique.

Mapping on the mineralized zones was done at 1:500, 1:1000 and 1:2000 scales whereas property mapping was done at the 1:12,500 scale. Prospecting and sampling covered a 7.5 km^2 area.

Geochemical and assay results are given in table 2 and figure 8. Sample locations are plotted on figure 7. Property geology is plotted on figure 3 and detailed maps of mineralized zones on figures 4, 5 and 6.

2. GEOLOGY

2.1 Stratigraphy

Mineralization is controlled more by structure than lithology and therefore detailed mapping was confined to zones of mineralization. For property scale mapping, rocks were sub divided into three groups: a strongly to moderately schistose package of volcanic flows, tuffs and derived sediments; a pelitic sedimentary package; and a collection of volcanic sediments with lesser tuffs, breccias, and flows. Where differences between the first two groups were obscured by metamorphism, faulting or overburden the rocks were mapped as undifferentiated. Unconformities between all of the groups are suspected but only fault contacts were observed. Tentative ages have been assigned to units based on regional correlations.

2.1.1. Unit 1: Stikine Assemblage, CP sn

Located primarily on the north and south ends of the property, this unit consists of pale blue to green phyllites, chlorite and hematite schists, quartz muscovite schists and greenstones. Strong foliation and orange weathering of ferrocarbonates often makes this unit distinctive. Where only the more massive members are present it is difficult to distinguish from parts of unit 3.

2.1.2. Unit 2: **P M** ps

Argillites and meta-argillites with minor cherts, greywacks and sandstones make up this unit. The greatest thickness occurs on the north end of Hoodoo 1 claim where it displays a complexely faulted and interdigitated contact with volcanic rocks. The age of this unit relative to the others is unknown and no macro fossils were observed. Fault hosted argillaceous material elsewhere on the property is included within this unit.

2.1.3 Unit 3: pTsv

Occupying the east central claim area this unit includes chert pebble to chert boulder conglomerates, coarse grits, volcanic sandstones, limey greywackes, thinbedded tuffs, breccias and pillowed andesites. Rocks have been deformed into open to closed folds with weak foliation developed in the hinge areas.

The lack of plutonic material in the coarse sediments suggests that these rocks are pre-Upper Triassic and probably correlative with Permian rocks in the Telegraph Creek mapsheet to the north.

2.2 Structure

Possibly the most significant feature on the property, and the most pertinent to exploration, is the degree of faulting. All of the faults are steeply dipping and generally, vertical movement exceeds strike-slip motion. Many faults host narrow slivers of argillite and/or both trachybasalt and quartz-eye felsite dykes related to Hoodoo volcanism. Late faulting is indicated by offset on Hoodoo dykes.

2.3 Mineralization and Alteration

Two distinctive, but possibly related, types of alteration and mineralization occur on the property. The first and most significant type consists of variable sized, fault related, lenticular zones of intense silicification and pyritization. Generally, these zones are accompanied by enrichments of Ag, As, Sb, Hg, Ba and Au. The second type consists of quartz and carbonate veining with variably sized alteration haloes of carbonatized, silicified and frequently oxidized host rocks. Sulphide content is usually less than 5%. Slight enrichments of As and Sb are common. Enrichments of other metals is sporadic.

Three zones of alteration and mineralization are discussed in more detail below.

2.3.1 Discovery Gossan

Located in the central claim area the gossan forms a conspicuous ridge crest just over 300 m long. (see figs 3 and 4). The south and east margin of the gossan is composed of muscovite, quartz, pyrite schists which grade laterally into unaltered tuffs and volcanic sediments. The central part is composed of quartz micro stockwork within intensely silicified material. Pyrite is disseminated throughout while argentite, pyrargyrite and cinnabar form localized microfracture fillings. A late argentiferous, silica, barite, pyrite vein cuts across the gossan on the western end. The gossan area is fault bounded but mineralization is not always in contact with faults.

2.3.2 Plantation Zone

The Plantation zone is located on the western edge of Hoodoo 4 claim between a thick bench of glacial outwash and Hoodoo glacier. The zone covers an area approximately 100 by 200 m and consists of a series of small veins and related alteration within a Hoodoo dyke swarm in extensively broken rock.

Veins are banded and brecciated quartz and carbonate with minor sulphides. Although the veins seldom exceed 20 cm in width, they may be accompanied by clay (gouge?) alteration zones up to 4 m wide. Veins were often emplaced along dyke margins causing variable alteration and mineralization within the dykes. Only weak As, Sb and Au anomalies occur in this zone.

3.2.3 North Gossan

Recently exposed by glacial retreat, the north gossan is located in the northeast corner of the Hoodoo 2 claim. The zone has a total strike length of over 600 m and is about 30 m thick. Textures vary from a quartz vein stockwork to massive, intense silicification with disseminated to semi-massive pyrite. In some areas the rock appears to be a highly pyritiferous lithic tuff with numerous quartz lined vugs. The zone is sharply bounded to the south by an argillite band and grades into tuffs to the north. Numerous satellite zones occur that may be fault displaced parts of the main zone or hosted by separate structures. This zone is enriched in all the elements analyzed.

3. GEOCHEMISTRY

3.1 Methods

Rock samples were collected as chips, either in a systematic fashion from 3m by 3m panels and variable length channels, or as random grab samples from at least a 1m by 1m area. Soil samples where taken from the 'B' horizon at a depth of approximately 15 cms where possible. Soil samples were collected in standard kraft bags. All samples were analyzed for Au, Ag, As, Sb, Hg and Ba by atomic absorption techniques. Details of sample preparation and analytical techniques can be found in Appendix 3. Sample locations and results are plotted on figures 7 and 8. All samples greater than 10 ppm Ag were re analyzed by fire assay. Additionally 44 samples were re analyzed geochemically, utilizing a different digestion for comparison.

3.2 Discussion of Results

Results of both rock and soil geochemistry are plotted on figure 8 and listed in Table 2. Statistics, histograms, and cumulative frequency plots for 106 of the rock samples can be found in Appendix 2. Correlation matrixes for 5 elements have been produced for 35 rock samples from the Discovery Gossan zone and 106 rock samples from all over the property. (also in Appendix 2).

Histograms and cumulative plots provide an efficient means of classifying sample populations and selecting threshold or significant values (Sinclair, 1974). The silver population is distinctly bimodal with the upper population totalling about 30% with threshold at 2.0 ppm. This appears quite reasonable as nearly 30% of the rock samples were collected from known or suspected mineralization. The antimony histogram is close to lognormal but the frequency plot gives three distinctive trends: background at < 2.0 ppm; mildly anomalous from 2.0 ppm to 40.0 ppm; and highly anomalous > 40.0 ppm. The 30th percentile occurs at approximately 7.0 ppm. Arsenic has a bimodal population with about 80% of samples in the upper population at >6.0 ppm. Anomalous samples occur above the break in slope on the frequency plot which corresponds to the 30th percentile at about 125 ppm. Barium has a lognormal distribution which is attenuated on the upper end by geochemical detection limits. The straight line on the frequency plot indicates a single population typical of a major element. Values in excess of 3000 ppm are deemed significant. Mercury has a bimodal population which is attenuated on both ends by detection limits. Roughly half of the samples occur in each population with nearly 40% having significant values in excess of 1000 ppb.

All of the elements show significant levels of correlation with each other. Barium and mercury are the best indicators for silver mineralization although arsenic and antimony have greater dispersion patterns.

High barium and pyrite contents played havoc with geochemical analyses using a nitric perchloric digestion. An aqua regia digestion gives analytical results that correspond much better to values obtained by assay techniques.

4. SUMMARY AND CONCLUSIONS

Mineralization on the Hoodoo Claims is hosted by fault zones in volcanics and volcanic sediments of probable late Paleozoic age. Local concentration of barite, argenitite, pyrargerite/ proustite,and cinnabar occur in quartz micro stockworks within zones of intense silicification and pyritization. All of the elements geochemically analyzed, with the exception of gold, (Ag , As, Sb, Hg, Ba) have undergone the same level of enrichment (50-150 x background) within the mineralized zones. Gold enrichment is considerably less than the other metals. Mineralization took place at shallow depths in Pliocene to recent times and is possibly related to Hoodoo volcanism.

Appendix I

ITEMIZED COST STATEMENT

Prospecting, Sampling and Mapping July 10-23; August 20-24, 1983.

P. Holbek	Project Geologist	16 days @$150/day	$2400
A. Chevalier	Geologist	8 days @$140/day	$1120
B. Helgason	Geologist	16 days @$120/day	$1920
T. Fitzmaurice	Geologist	8 days @$120/day	$ 960
			$6400

Transportation	
½ of 4 return airfares Vancouver-Terrace, Terrace - Snippaker Strip	$1000
1 day travel time for four	$ 530
Freight	$ 680
Helicopter Frontier's Bell 206BII 9.1 Hrs @$600/Hr includes fuel & oil	$5460
	$7670

Supplies	
Food 48 man days @ $20/day	$ 960
Radio and equipment rental	$1120
	$2080

Geochemistry	
65 soils for 6 elements @ $22.65/sample	$1472
Sample prep @ $1.00/sample	65
131 rocks for 6 elements @ $22.65/sample	$2967
Sample prep @ $2.50/sample	327
27 silver by FA & AA @ $7.50	202
44 silver by AA @ $2.25	99
	$5132
Drafting, Printing Report Preparations	$2200
TOTAL	$23,482.

Appendix II

STATEMENT OF QUALIFICATIONS

I, Peter Holbek, with a business address of 703-1112 West Pender Street, Vancouver, B.C.

Hereby certify that:

1. I graduated from the University of B.C. in 1980 with a B.Sc. (Hons) Degree in Geological Sciences.

2. I have completed three years of post graduate research at the University of B.C.

3. I have worked as a Geologist or Assistant in B.C. for the past eight field seasons.

4. The work described herein is based on personal examination and supervision of field work carried out between July 10 and August 25, 1983.

Peter Holbek, B.Sc.

Appendix III

ANALYTICAL TECHNIQUES

All samples were prepared and analyzed by Chemex Labs Ltd. in North Vancouver.

Soils were dried, sieved to -80 mesh prior to digestion. Rocks were crushed and split, with a 200 gm subsample ring ground to -100 mesh. Prepared sample splits (10-20 gm) were digested in nitric perchloric acid and analyzed by atomic absorption.

Silver assays were performed by fire assay with atomic absorption finish. Forty-four geochemical silver analyses were rerun using an aqua regia digestion with improved results.

APPENDIX IV

Table 2: Summary of Geochem Data

client : KERR ADDISON MINES LTD.
(ATTN: RAY DUJARDIN)
703-1112 WEST PENDER ST.
VANCOUVER, B.C.
V6E 2S1

Sample description	Cu PPM	Pb PPM	Zn PPM	Ag PPM	AS PPM	Hg PPB	Sb PPM	Ba PPM	Au PPB	Ag oz/t	Au oz/t
RB3 HDA 01				0.2	50	10	3.0	680	5		
RB3 HDA 02				0.3	51	30	3.3	420	80		
RB3 HDA 03				0.1	5	10	0.7	380	<5		
RB3 HDA 04				0.1	17	20	0.4	580	10		
RB3 HDA 05				0.1	14	10	1.6	520	<5		
RB3 HDA 06				0.1	3	10	0.7	1400	<5		
RB3 HDA 07				0.1	4	50	0.4	220	5		
RB3 HDA 08				0.2	27	30	9.8	200	<5		
RB3 HDA- 10				33.0	295	4900	57.0	>10000	15		
RB3 HDA- 11				0.8	155	820	10.0	2200	<5		
RB3 HDA- 12				0.2	83	1200	7.2	2400	5		
RB3 HDA- 13				0.1	77	440	9.2	2900	<5		
RB3 HDA- 14				31.0	88	3500	29.0	4600	<5		
RB3 HDA- 15				12.3	220	2700	33.0	5450	<5		
RB3 HDA- 16				2.4	100	1900	13.8	7000	<5		
RB3 HDA- 17				0.1	59	1100	6.0	1040	<5		
RB3 HDA 18				0.1	2	10	0.1	140	<5		
RB3 HDA 19				0.1	3	10	0.1	80	<5		
DB3 HDA 20				0.1	9	40	0.8	1700	<5		
DB3 HDA 21				0.1	14	50	0.6	750	10		
RB3 HDA 22				0.1	1	10	0.2	>10000	120		
RB3 HDA 23				3.4	4	20	0.4	>10000	1490		
RB3 HDA 24				0.1	4	20	0.6	4200	<5		
RB3 HDA 25				0.1	1	10	0.1	1280	<5		
DB3 HDA 26				0.1	14	70	0.4	170	5		
DB3 HDA 27				0.1	14	50	1.0	580	<5		
DB3 HDA 28				0.2	23	60	1.0	340	<5		
DB3 HDA 29				0.1	19	40	0.6	220	5		
DB3 HDA 30				0.1	12	60	0.2	90	5		
DB3 HDA 31				0.1	12	60	0.4	130	5		
DB3 HDA 32				0.1	14	70	0.6	120	10		
RB3 HDA 33				0.1	1	10	0.2	320	<5		
DB3 HDA 34				0.1	11	30	0.1	130	<5		
DB3 HDA 35				0.1	15	30	0.8	110	10		
DB3 HDA 36				0.1	20	50	0.6	120	<5		
RB3 HDA 37				0.1	4	310	7.2	520	<5		
RB3 HDA 38				0.1	2	30	0.2	360	<5		
RB3 HDA 39				0.2	7	140	0.6	2000	<5		
RB3 HDA 40				0.1	1	10	0.1	300	<5		

Summary of HD samples

Sample description	Cu PPM	Pb PPM	Zn PPM	Ag PPM	AS PPM	Hg PPB	Sb PPM	Ba PPM	Au PPB	Ag oz/t	Au oz/t
RB3 HDA 41				0.1	22	10	0.1	580	<5		
RB3 HDA 42				4.7	14	4900	1.4	840	50		
RB3 HDA 43				3.4	24	250	1.6	1140	50		
RB3 HDA 44				0.2	6	60	1.8	70	<5		
DB3 HDA 45				0.2	17	60	0.4	220	<5		
RB3 HDA 46				0.1	6	90	1.4	1680	<5		
RB3 HDA 47				0.1	3	10	0.4	920	<5		
DB3 HDA 48				0.2	14	140	0.1	380	<5		
RB3 HDA 49				3.4	275	270	2.6	2500	20		
RB3 HDA 50				8.7	1350	6900	13.8	3300	85		
RB3 HDB 08				1.8	170	8400	22.0	1000	25		
RB3 HDB 09				5.5	110	3600	19.0	2000	75		
RB3 HDB 10				4.4	480	>10000	130.0	1700	80		
RB3 HDB 11				3.7	39	1400	8.2	2600	30	1.36	
RB3 HDB 12				4.3	230	4200	19.0	6000	60		
RB3 HDB 13				12.5	>1000	>10000	160.0	4500	170		
RB3 HDB 14				10.7	410	7800	60.0	4700	80		
RB3 HDB- 17				0.1	3	30	0.3	80	<5		
RB3 HDB- 18				4.8	130	1000	10.0	6000	55		
RB3 HDB- 19				6.8	510	>10000	73.0	3200	85		
RB3 HDB- 20				3.2	760	1500	26.0	840	5		
RB3 HDB- 21				0.1	9	130	1.6	500	<5		
RB3 HDB 22				0.3	35	490	1.8	960	<5		
RB3 HDB 23				0.1	14	50	0.8	2600	<5		
RB3 HDB 24				0.2	5	300	0.6	3100	10		
DB3 HDB 25				0.1	14	90	0.1	80	<5		
DB3 HDB 26				0.1	9	30	0.4	760	<5		
DB3 HDB 27				0.1	11	80	0.1	320	<5		
DB3 HDB 28				0.1	20	90	0.1	240	<5		
RB3 HDB 29				0.1	6	20	0.5	1160	<5		
DB3 HDB 30				0.1	16	50	0.4	240	<5		
DB3 HDB 31				0.1	12	20	0.1	440	5		
RB3 HDB 32				0.1	4	40	9.6	610	<5		
DB3 HDB 33				0.1	17	70	0.1	60	<5		
DB3 HDB 34				0.1	9	80	0.1	410	5		
DB3 HDB 35				0.7	29	50	0.4	430	<5		

Summary of HD samples

Sample description	Cu PPM	Pb PPM	Zn PPM	Ag PPM	AS PPM	Hg PPb	Sb PPM	Ba PPM	Au PPb	Ag oz/t	Au oz/t
D83 HDB 36				0.1	16	210	0.2	360	5		
D83 HDB 37				0.1	11	90	0.1	560	10		
D83 HDB 38				0.2	14	70	0.1	520	<5		
R83 HDB 39				0.1	4	10	1.2	500	<5		
D83 HDB 40				0.1	90	60	1.6	380	<5		
R83 HDF- 1				0.1	11	90	1.0	3000	<5		
R83 HDF- 2				5.8	140	140	8.4	5000	70		
R83 HDF- 3				11.2	510	6500	28.0	4400	70		
R83 HDF- 4				0.2	100	3300	9.6	1080	<5		
R83 HDF- 5				4.2	94	1700	5.3	2550	20		
R83 HDF- 6				0.1	38	50	8.8	68	<5		
R83 HDF- 7				0.1	23	140	1.0	1160	<5		
R83 HDF- 8				5.0	140	1100	13.2	>10000	5		
R83 HDF- 9				0.1	640	1700	75.0	7800	<5		
R83 HDF- 10				0.1	48	1200	7.0	1920	<5		
R83 HDF- 11				6.0	170	4500	36.0	>10000	5		
R83 HDF- 12				2.1	165	1700	9.0	8500	<5		
R83 HDF- 13				0.7	107	1700	8.7	7000	<5		
R83 HDF- 14				41.0	220	4700	32.0	>10000	<5		
R83 HDF- 15				0.2	81	430	6.3	2400	10		
R83 HDF- 16				0.1	27	170	3.0	1780	<5		
R83 HDF- 17				0.3	36	180	2.3	2250	<5		
R83 HDF- 18				0.1	101	260	4.0	2450	<5		
R83 HDF- 19				0.4	180	3300	3.1	6800	<5		
R83 HDF 20				0.1	7	50	1.0	1380	<5		
R83 HDF 21				0.1	7	60	0.8	240	<5		
D83 HDF 22				0.1	20	40	0.8	150	<5		
D83 HDF 23				0.1	12	60	0.4	60	<5		
R83 HDF 24				0.1	3	20	1.2	520	<5		
R83 HDF 25				0.1	1	10	0.8	70	<5		
R83 HDF 26				0.1	2	10	0.6	260	<5		
D83 HDF 27				0.1	17	80	0.1	50	<5		
D83 HDF 28				0.1	10	60	0.4	40	5		
D83 HDF 29				0.1	12	40	0.1	350	<5		
D83 HDF 30				0.1	15	60	0.1	170	<5		
R83 HDF 31				0.1	2	10	0.7	1620	<5		
D83 HDF 32				0.1	9	40	0.1	120	<5		
D83 HDF 33				0.1	20	10	0.1	460	<5		
D83 HDF 34				0.1	5	20	0.1	150	<5		
D83 HDF 35				0.2	15	30	0.1	110	<5		
D83 HDF 36				0.1	15	30	0.2	140	<5		
D83 HDF 37				0.1	19	60	0.1	60	5		
D83 HDF 38				0.1	15	30	0.2	160	<5		
D83 HDF 39				0.1	5	100	0.1	480	<5		
D83 HDF 40				0.1	17	110	0.2	120	<5		

Summary of HD samples

Sample description	Cu PPM	Pb PPM	Zn PPM	As PPM	AS PPM	Hg PPB	Sb PPM	Ba PPM	Au PPB	Ag oz/t	Au oz/t
DB3 HDF 41				0.1	14	100	0.2	90	5		
RB3 HDF 42				0.1	3	10	0.6	900	<5		
RB3 HDF 43				4.4	135	4800	10.0	>10000	<5		
DB3 HDF 44				0.1	38	190	1.3	600	<5		
DB3 HDF 45				0.6	39	320	2.0	540	5		
DB3 HDF 46				0.1	16	80	0.4	160	10		
DB3 HDF 47				0.1	10	80	0.1	520	<5		
DB3 HDF 48				0.1	6	80	0.2	420	5		
DB3 HDF 49				0.1	16	140	0.1	640	<5		
SB2 HDF 50				0.1	17	30	0.1	740	<5		
DB3 HDF 51				0.1	17	60	0.1	140	<5		
DB3 HDF 52				0.1	12	60	0.1	410	<5		
DB3 HDF 53				0.1	16	70	0.3	60	<5		
RB3 HDF 54				0.1	6	140	1.0	2000	<5		
RB3 HDF 55				0.1	3	70	0.7	440	<5		
RB3 HDF 56				0.1	3	20	0.8	1700	<5		
RB3 HDF 57				0.1	3	20	0.5	1150	<5		
RB3 HDF 58				0.1	2	20	0.3	180	<5		
DB3 HDF 59				0.1	9	60	0.1		<5		
DB3 HDP 61				0.4	83	80	4.4	1340	5		
DB3 HDP 71				0.1	720	>10000	41.0	1460	<5		
DB3 HDP 72				0.1	32	230	1.4	400	<5		
DB3 HDP 74				0.1	33	200	2.3	280	<5		
DB3 HDP 79				0.2	88	100	3.6	1280	<5		
DB3 HDP 81				0.1	220	50	4.6	420	<5		
DB3 HDP 15				0.3	11	370	1.8	250	5		
RB3 HDP 16				9.3	890	>10000	250.0	1100	130		
RB3 HDP 16				0.1	55	200	5.4	2950	<5		
RB3 HDP 17				4.6	270	4000	31.0	2200	125		
RB3 HDP 18				3.8	50	730	6.0	620	35		
RB3 HDP 19				6.1	17	420	4.0	1100	100		
RB3 HDP 20				2.7	22	600	4.5	2300	65		

Summary of HO samples

Sample description	Cu PPM	Pb PPM	Zn PPM	Ag PPM	AS PPM	Hg PPb	Sb PPM	Ba PPM	Au PPb	Ag oz/t	Au oz/t
D83 HOP 21				0.2	30	150	0.8	260	5		
R83 HOP 22				0.2	14	30	0.8	760	5		
D83 HOP 23				0.1	14	30	1.6	800	<5		
D83 HOP 24				0.1	5	90	0.7	200	5		
D83 HOP 25				0.1	10	70	0.5	280	5		
R83 HOP 26				0.1	4	30	0.6	2600	<5		
R83 HOP 27				3.4	>1000	>10000	60.0	520	<5		
D83 HOP 28				0.1	6	30	0.1	720	<5		
R83 HOP 29				0.1	97	150	0.9	240	<5		
R83 HOP 30				0.1	6	60	3.6	360	10		
R83 HOP 31				0.1	16	30	1.6	760	5		
R83 HOP 32				0.1	375	60	5.2	540	10		
R83 HOP 33				0.2	65	20	1.6	180	5		
R83 HOP 34				0.1	33	80	4.4	240	5		
R83 HOP 35				0.3	10	50	1.6	1000	5		
D83 HOP 36				0.1	61	40	6.4	880	20		
R83 HOP 37				0.2	7	20	1.0	820	<5		
R83 HOP 38				0.2	73	20	3.6	240	<5		
R83 HOP 39				0.3	9	10	0.9	560	5		
R83 HOP- 40				0.1	14	100	0.9	1000	<5		
R83 HOP- 41				3.4	135	1200	15.0	>10000	<5		
R83 HOP- 42				0.1	53	1200	7.9	1760	<5		
R83 HOP- 43				3.5	175	3100	16.3	>10000	5		
R83 HOP- 44				4.4	190	1800	13.6	8400	<5		
R83 HOP- 45				0.1	69	550	4.3	1760	<5		
R83 HOP- 46				0.1	500	3200	67.0	7500	<5		
R83 HOP- 47				12.5	440	7000	86.0	>10000	5		
R83 HOP- 48				0.8	75	850	8.7	4000	5		
R83 HOP- 49				0.1	88	1800	6.6	2600	5		
R83 HOP- 50				0.9	25	200	1.7	2500	<5		
R83 HOP- 51				0.1	310	3600	30.0	9000	<5		
R83 HOP 52				0.1	12	10	1.0	460	<5		
R83 HOP 53				0.1	36	10	3.4	780	<5		
D83 HOP 54				0.1	12	20	0.4	140	5		
R83 HOP 55				0.2	3	10	0.8	420	<5		
R83 HOP 56				7.9	570	1000	17.0	2600	35		
R83 HOP 57				5.6	200	990	6.6	3000	50		
R83 HOP 58				0.1	5	30	1.2	460	<5		
R83 HOP 59				6.9	17	330	2.2	6300	55		
R83 HOP 66				0.1	4	210	0.9	1950	5		
R83 HOP 67				0.3	9	650	1.1	4000	<5		
R83 HOP 68				3.8	130	1000	8.6	4600	<5		

Summary of HO samples

Sample description	Cu PPM	Pb PPM	Zn PPM	Ag PPM	AS PPM	Hg PPb	Sb PPM	Ba PPM	Au PPb	Ag oz/t	Au oz/t
R83 HOP 69				4.1	27	120	2.8	2150	35		
R83 HOP 70				0.2	11	110	1.4	360	<5		
R83 HOP 73				0.3	45	390	7.8	1050	<5		
R83 HOP 75				0.1	10	50	1.1	1100	5		
R83 HOP 76				9.6	435	5500	28.0	840	5		
R83 HOP 77				0.1	435	560	5.6	1820	5		
R83 HOP 78				0.1	340	180	7.2	400	<5		
R83 HOP 80				0.2	465	440	28.0	320	5		
R83 HOP 82				0.1	29	40	1.2	240	<5		
R83 HOP 83					530		5.2	860		0.10	<0.003
R83 HOP 84					45		4.2	1980		0.20	<0.003
R83 HOP 85					355		15.0	600		0.18	<0.003
R83 HOP 86					51		3.8	2100		0.16	<0.003

Sample description	Prep code	Ag AA oz/T			
R83 HOB 06	214	0.34	--	--	--
R83 HOB 13	214	0.71	--	--	--
R83 HOB 14	214	0.52	--	--	--
R83 HOP 04	214	0.45	--	--	--
R83 HOP 11	214	1.03	--	--	--
R83 HOP 16	214	0.31	--	--	--
R83 HOA 10	214	1.29	--	--	--
R83 HOA 14	214	1.38	--	--	--
R83 HOA 15	214	0.50	--	--	--
R83 HOB 19	214	0.57	--	--	--
R83 HOF 02	214	0.25	--	--	--
R83 HOF 03	214	0.54	--	--	--
R83 HOF 11	214	0.29	--	--	--
R83 HOF 14	214	1.54	--	--	--
R83 HOF 19	214	0.02	--	--	--
R83 HOP 41	214	0.11	--	--	--
R83 HOP 43	214	0.13	--	--	--
R83 HOP 44	214	0.15	--	--	--
R83 HOP 47	214	0.71	--	--	--
R83 HOF 43	214	0.10	--	--	--

Sample description	Prep code	Ag FA oz/T			
R83 HOA-10	207	1.50	--	--	--
R83 HOA-14	207	1.52	--	--	--
R83 HOA-15	207	0.38	--	--	--
R83 HOB-19	207	0.54	--	--	--
R83 HOF-3	207	0.54	--	--	--
R83 HOF-14	207	1.34	--	--	--
R83 HOP-47	207	0.72	--	--	--

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

RECEIVED
AUG - 8 1983
KERR ADDISON MINES LTD.

TO : KERR ADDISON MINES LTD.
(ATTN: RAY DUJARDIN)
703-1112 WEST PENDER ST.
VANCOUVER, B.C.
V6E 2S1

CERT. #
INVOICE #
DATE
P.O. # BC13

PER

Sample description	Prep code	Ag-Aqua regia digestion ppm			
R83 HOA-10	205	45.0	--	--	--
R83 HOA-11	205	1.0	--	--	--
R83 HOA-12	205	0.2	--	--	--
R83 HOA-13	205	0.3	--	--	--
R83 HOA-14	205	53.0	--	--	--
R83 HOA-15	205	18.8	--	--	--
R83 HOA-16	205	3.1	--	--	--
R83 HOA-17	205	0.3	--	--	--
R83 HOB-17	205	0.2	--	--	--
R83 HOB-18	205	6.8	--	--	--
R83 HOB-19	205	21.0	--	--	--
R83 HOB-20	205	4.7	--	--	--
R83 HOB-21	205	0.2	--	--	--
R83 HOF-1	205	0.3	--	--	--
R83 HOF-2	205	11.0	--	--	--
R83 HOF-3	205	20.0	--	--	--
R83 HOF-4	205	0.2	--	--	--
R83 HOF-5	205	7.1	--	--	--
R83 HOF-6	205	0.3	--	--	--
R83 HOF-7	205	0.1	--	--	--
R83 HOF-8	205	7.4	--	--	--
R83 HOF-9	205	0.3	--	--	--
R83 HOF-10	205	0.4	--	--	--
R83 HOF-11	205	12.4	--	--	--
R83 HOF-12	205	5.5	--	--	--
R83 HOF-13	205	0.9	--	--	--
R83 HOF-14	205	59.0	--	--	--
R83 HOF-15	205	0.4	--	--	--
R83 HOF-16	205	0.6	--	--	--
R83 HOF-17	205	0.5	--	--	--
R83 HOF-18	205	0.1	--	--	--
R83 HOF-19	205	1.0	--		
R83 HOP-40	205	0.8	--		
R83 HOP-41	205	4.8	--		
R83 HOP-42	205	0.1	--		
R83 HOP-43	205	4.7	--		
R83 HOP-44	205	5.8	--		
R83 HOP-45	205	0.4	--		
R83 HOP-46	205	0.4	--		
R83 HOP-47	205	29.0	--		
R83 HOP-48	205	0.9	--	--	--
R83 HOP-49	205	0.3	--	--	--
R83 HOP-50	205	1.0	--	--	--
R83 HOP-51	205	0.3	--	--	--

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

PSR

TO : KERR ADDISON MINES LTD.
(ATTN: RAY DUJARDIN)
703-1112 WEST PENDER ST.
VANCOUVER, B.C.
V6E 2S1

CERT. # : A8314959-001-A
INVOICE # : I8314959
DATE : 3-OCT-83
P.O. # : NONE
BC-7

Sample description	Prep code	AS ppm	Hg ppb	Sb ppm	Ba ppm	Ag FA oz/T	Au FA oz/T
R83-HWP-31	207	750	90	29.0	320	0.07	0.008
R83-HWP-32	207	51	460	250.0	120	0.42	0.070
R83-HWP-33	207	39	620C	30.0	360	0.12	0.036
R83-HOB-43	207	21C	6600	29.0	>10000	0.44	0.003
R83-HOB-44	207	120C	>10000	43.0	3900	1.22	<0.003
R83-HOB-45	207	140	>10000	320.0	>10000	19.00	0.006
R83-HOB-46	207	980	>10000	84.0	1000	2.02	0.018
R83-HOB-47	207	3600	>10000	85.0	3200	0.94	0.018
R83-HOB-48	207	420C	>10000	45.0	660	0.22	<0.003
R83-HOP-91	207	145	1300	14.4	760	0.06	<0.003

Sample description	Prep code	Ag ppm	AS ppm	Hg ppb	Sb ppm	Ba ppm	Au ppb FA+AA
R83-HOB-41	205	0.1	22	120	1.2	1240	5
R83-HOB-42	205	0.1	20	300	0.8	880	5

APPENDIX V

Cumulative Frequency Plots, Statistics, Histograms and Correlation Matrixes

CORRELATION MATRIX

	AG	SB	AS	BA	HG
AG	1.0000				
SB	0.4322	1.0000			
AS	0.1897	0.6718	1.0000		
BA	0.4334	0.4767	0.5446	1.0000	
HG	0.6852	0.6369	0.5245	0.7339	1.0000

NAME	MEAN	STANDARD DEVIATION
AG	9.08485	15.8279
SB	25.4152	26.5729
AS	163.485	139.780
BA	6037.88	3353.18
HG	2159.70	1742.39

33 OBSERVATIONS TOTAL
33 OBSERVATIONS ARE COMPLETE
32 DEGREES OF FREEDOM

CORRELATION MATRIX

	AG	SB	AS	BA	HG
AG	1.0000				
SB	0.4245	1.0000			
AS	0.2469	0.6485	1.0000		
BA	0.4957	0.3754	0.2534	1.0000	
HG	0.4469	0.7723	0.7242	0.3736	1.0000

NAME	MEAN	STANDARD DEVIATION
AG	4.09340	9.67121
SB	15.5528	27.3643
AS	135.604	226.216
BA	3141.21	3267.73
HG	1661.42	2570.67

106 OBSERVATIONS TOTAL
106 OBSERVATIONS ARE COMPLETE
105 DEGREES OF FREEDOM

TITLES	
PROGRAM:	PERCENTAGE HISTOGRAMS
DATA:	GOSSAN
RUN:	H00D00
TIME:	18/09/83 22:41:03

NAME	AG
N	106
X BAR	-0.19460
STD DEV	0.84935

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES BAR INTERVAL = 0.25000 STD DEV	ARITH.LIMIT
1		0	0.0		
2	-4.335	0	0.0		0.4622E-04
3	-4.123	0	0.0		0.7536E-04
4	-3.911	0	0.0		0.1229E-03
5	-3.698	0	0.0		0.2004E-03
6	-3.486	0	0.0		0.3267E-03
7	-3.274	0	0.0		0.5327E-03
8	-3.061	0	0.0		0.8686E-03
9	-2.849	0	0.0		0.1416E-02
10	-2.636	0	0.0		0.2309E-02
11	-2.424	0	0.0		0.3766E-02
12	-2.212	0	0.0		0.6140E-02
13	-1.999	0	0.0		0.1001E-01
14	-1.787	0	0.0		0.1633E-01
15	-1.575	0	0.0		0.2662E-01
16	-1.362	0	0.0		0.4341E-01
17	-1.150	40	37.7	**	0.7078E-01
18	-0.9378	0	0.0		0.1154
19	-0.7254	16	15.1	***************	0.1882
20	-0.5131	6	5.7	******	0.3068
21	-0.3008	1	0.9	*	0.5003
22	-0.8842E-01	5	4.7	*****	0.8158
23	0.1239	1	0.9	*	1.330
24	0.3363	7	6.6	*******	2.169
25	0.5486	13	12.3	************	3.537
26	0.7609	6	5.7	******	5.767
27	0.9733	4	3.8	****	9.403
28	1.186	3	2.8	***	15.33
29	1.398	1	0.9	*	25.00
30	1.610	3	2.8	***	40.77
31	1.823	0	0.0		66.47
32	2.035	0	0.0		108.4
33	2.247	0	0.0		176.7
34	2.460	0	0.0		288.2
35	2.672	0	0.0		469.9
36	2.884	0	0.0		766.2
37	3.097	0	0.0		1249.
38	3.309	0	0.0		2037.
39	3.521	0	0.0		3322.
40	3.734	0	0.0		5416.
41	3.946	0	0.0		8831.

TITLES	
PROGRAM:	PERCENTAGE CUMULATIVE FREQUENCY PLOTS
DATA:	GOSSAN
RUN:	H00000
TIME:	18/09/83 22:41:03

NAME	AG
N	106
X BAR	-0.19460
STD DEV	0.84935

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES — BAR INTERVAL = 0.12500 — STD DEV	ARITH.LIMIT
1	1.876	0	0.0		75.11
2	1.770	1	0.9		58.82
3	1.663	1	1.9		46.06
4	1.557	1	2.8		36.07
5	1.451	1	3.8		28.25
6	1.345	1	4.7		22.12
7	1.239	2	6.6		17.33
8	1.133	0	6.6		13.57
9	1.026	4	10.4		10.63
10	0.9202	1	11.3		8.321
11	0.8140	2	13.2		6.517
12	0.7078	5	17.9		5.103
13	0.6017	9	26.4		3.996
14	0.4955	7	33.0		3.130
15	0.3893	2	34.9		2.451
16	0.2832	0	34.9		1.919
17	0.1770	1	35.8		1.503
18	0.7083E-01	0	35.8		1.177
19	-0.3534E-01	3	38.7		0.9219
20	-0.1415	2	40.6		0.7219
21	-0.2477	1	41.5		0.5654
22	-0.3538	1	42.5		0.4427
23	-0.4600	5	47.2		0.3467
24	-0.5662	6	52.8		0.2715
25	-0.6724	0	52.8		0.2126
26	-0.7785	10	62.3		0.1665
27	-0.8847	0	62.3		0.1304
28	-0.9909	0	62.3		0.1021
29	-1.097	40	100.0	*	0.7998E-01
30	-1.203	0	100.0	*	0.6263E-01
31	-1.309	0	100.0	*	0.4905E-01
32	-1.416	0	100.0	*	0.3841E-01
33	-1.522	0	100.0	*	0.3008E-01
34	-1.628	0	100.0	*	0.2356E-01
35	-1.734	0	100.0	*	0.1845E-01
36	-1.840	0	100.0	*	0.1445E-01
37	-1.946	0	100.0	*	0.1131E-01
38	-2.053	0	100.0	*	0.8860E-02
39	-2.159	0	100.0	*	0.6939E-02
40	-2.265	0	100.0	*	0.5434E-02
41		0	100.0	*	

1 5 10 20 30 40 50 60 70 80 90 95 99

TITLES	
PROGRAM:	PERCENTAGE HISTOGRAMS
DATA:	GOSSAN
RUN:	HOODOO
TIME:	18/09/83 22:41:03

NAME	SB
N	106
X BAR	0.59243
STD DEV	0.79607

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES BAR INTERVAL = 0.25000 STD DEV	ARITH.LIMIT
1		0	0.0		
2	-3.288	0	0.0		0.5148E-03
3	-3.089	0	0.0		0.8140E-03
4	-2.890	0	0.0		0.1287E-02
5	-2.691	0	0.0		0.2035E-02
6	-2.492	0	0.0		0.3219E-02
7	-2.293	0	0.0		0.5090E-02
8	-2.094	0	0.0		0.8048E-02
9	-1.895	0	0.0		0.1273E-01
10	-1.696	0	0.0		0.2013E-01
11	-1.497	0	0.0		0.3182E-01
12	-1.298	0	0.0		0.5032E-01
13	-1.099	5	4.7	*****	0.7958E-01
14	-0.9002	0	0.0		0.1258
15	-0.7012	3	2.8	***	0.1990
16	-0.5022	5	4.7	*****	0.3147
17	-0.3031	10	9.4	*********	0.4976
18	-0.1041	10	9.4	*********	0.7868
19	0.9490E-01	9	8.5	********	1.244
20	0.2939	5	4.7	*****	1.967
21	0.4929	9	8.5	********	3.111
22	0.6919	8	7.5	********	4.920
23	0.8910	13	12.3	************	7.780
24	1.090	8	7.5	********	12.30
25	1.289	3	2.8	***	19.45
26	1.488	5	4.7	*****	30.76
27	1.687	9	8.5	********	48.64
28	1.886	2	1.9	**	76.92
29	2.085	2	1.9	**	121.6
30	2.284	0	0.0		192.3
31	2.483	0	0.0		304.2
32	2.682	0	0.0		481.0
33	2.881	0	0.0		760.6
34	3.080	0	0.0		1203.
35	3.279	0	0.0		1902.
36	3.478	0	0.0		3007.
37	3.677	0	0.0		4755.
38	3.876	0	0.0		7520.
39	4.075	0	0.0		0.1189E+05
40	4.274	0	0.0		0.1880E+05
41	4.473	0	0.0		0.2973E+05

TITLES	
PROGRAM:	PERCENTAGE CUMULATIVE FREQUENCY PLOTS
DATA:	GOSSAN
RUN:	H00000
TIME:	18/09/83 22:41:03

NAME	SB
N	106
X BAR	0.59243
STD DEV	0.79607

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES	ARITH.LIMIT
1	2.533	0	0.0		341.1
2	2.433	0	0.0		271.2
3	2.334	0	0.0		215.7
4	2.234	0	0.0		171.5
5	2.135	1	0.9		136.4
6	2.035	1	1.9		108.5
7	1.936	1	2.8		86.26
8	1.836	3	5.7		68.59
9	1.737	5	10.4		54.55
10	1.637	2	12.3		43.38
11	1.538	2	14.2		34.50
12	1.438	5	18.9		27.43
13	1.339	1	19.8		21.81
14	1.239	2	21.7		17.35
15	1.140	4	25.5		13.80
16	1.040	2	27.4		10.97
17	0.9407	8	34.9		8.724
18	0.8412	7	41.5		6.938
19	0.7417	3	44.3		5.517
20	0.6422	6	50.0		4.387
21	0.5427	4	53.8		3.489
22	0.4432	5	58.5		2.774
23	0.3437	2	60.4		2.206
24	0.2442	1	61.3		1.755
25	0.1446	8	68.9		1.395
26	0.4514E-01	1	69.8		1.110
27	-0.5437E-01	6	75.5		0.8823
28	-0.1539	3	78.3		0.7016
29	-0.2534	8	85.8		0.5580
30	-0.3529	2	87.7		0.4437
31	-0.4524	5	92.5		0.3529
32	-0.5519	2	94.3		0.2806
33	-0.6514	0	94.3		0.2231
34	-0.7509	1	95.3		0.1774
35	-0.8504	0	95.3		0.1411
36	-0.9499	0	95.3		0.1122
37	-1.049	5	100.0		0.8924E-01
38	-1.149	0	100.0		0.7096E-01
39	-1.248	0	100.0		0.5643E-01
40	-1.348	0	100.0		0.4488E-01
41		0	100.0		

BAR INTERVAL = 0.12500 STD DEV

1 5 10 20 30 40 50 60 70 80 90 95 99

TITLES	
	PROGRAM: PERCENTAGE HISTOGRAMS
	DATA: GOSSAN
	RUN: HOODOO
	TIME: 18/09/83 22:41:03

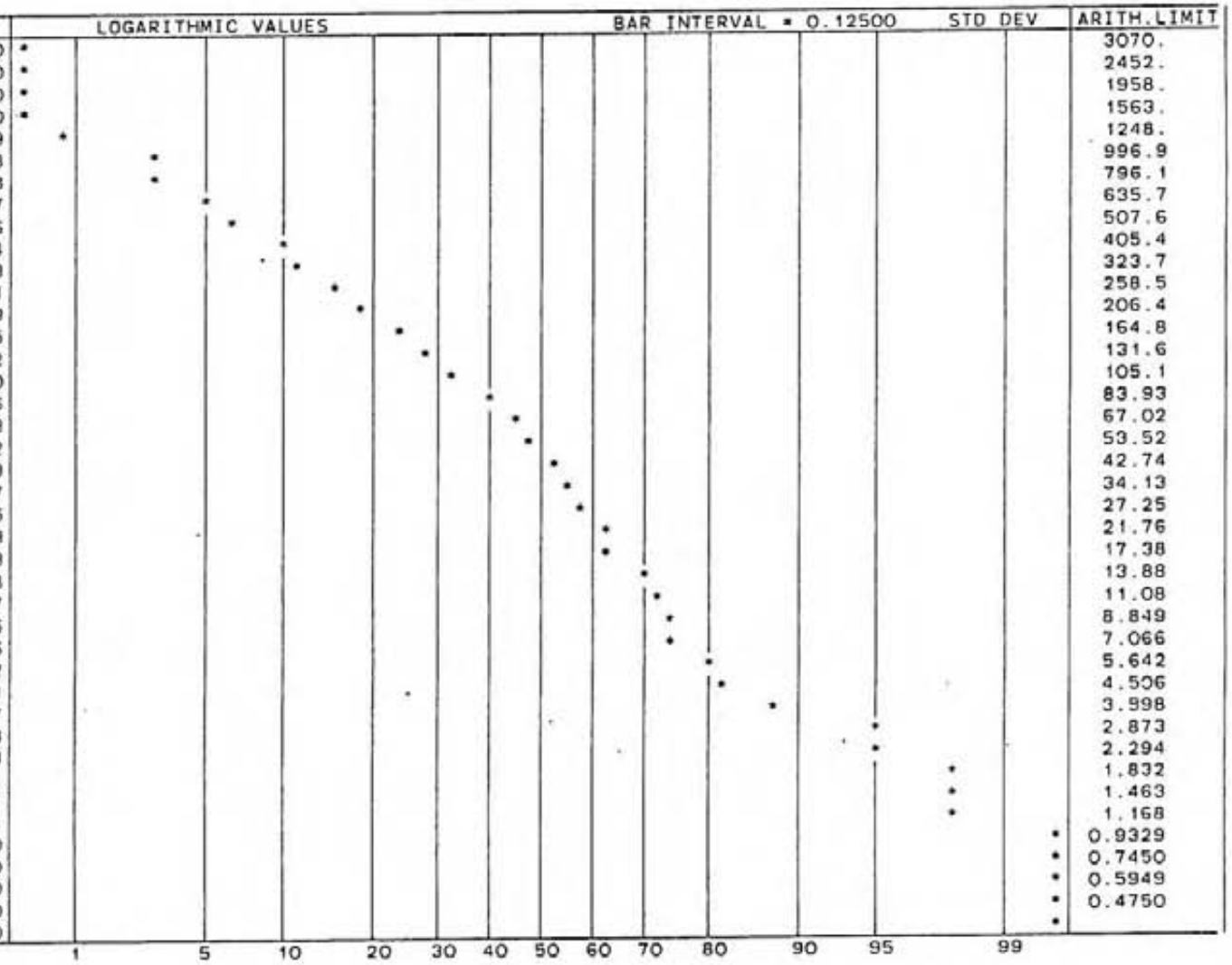
NAME	AS
N	106
X BAR	1.5820
STD DEV	0.78163

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES BAR INTERVAL = 0.25000 STD DEV	ARITH.LIMIT
1		0	0.0		0.5909E-02
2	-2.229	0	0.0		0.9266E-02
3	-2.033	0	0.0		0.1453E-01
4	-1.838	0	0.0		0.2279E-01
5	-1.642	0	0.0		0.3574E-01
6	-1.447	0	0.0		0.5604E-01
7	-1.251	0	0.0		0.8789E-01
8	-1.056	0	0.0		0.1378
9	-0.8606	0	0.0		0.2162
10	-0.6652	0	0.0		0.3390
11	-0.4698	0	0.0		0.5316
12	-0.2744	0	0.0		0.8337
13	-0.7901E-01	2	1.9	**	1.307
14	0.1164	3	2.8	***	2.050
15	0.3118	8	7.5	********	3.215
16	0.5072	8	7.5	********	5.042
17	0.7026	7	6.6	*******	7.907
18	0.8980	4	3.8	****	12.40
19	1.093	8	7.5	********	19.45
20	1.289	5	4.7	*****	30.50
21	1.484	6	5.7	******	47.83
22	1.680	9	8.5	********	75.00
23	1.875	14	13.2	**************	117.6
24	2.070	11	10.4	**********	184.5
25	2.266	7	6.6	*******	289.3
26	2.461	5	4.7	*****	453.6
27	2.657	5	4.7	*****	711.4
28	2.852	3	2.8	***	1116.
29	3.048	1	0.9	*	1750.
30	3.243	0	0.0		2744.
31	3.438	0	0.0		4303.
32	3.634	0	0.0		6748.
33	3.829	0	0.0		0.1058E+05
34	4.025	0	0.0		0.1659E+05
35	4.220	0	0.0		0.2602E+05
36	4.415	0	0.0		0.4081E+05
37	4.611	0	0.0		0.6400E+05
38	4.806	0	0.0		0.1004E+06
39	5.002	0	0.0		0.1574E+06
40	5.197	0	0.0		0.2468E+06
41	5.392	0	0.0		

TITLES	
PROGRAM:	PERCENTAGE CUMULATIVE FREQUENCY PLOTS
DATA:	GOSSAN
RUN:	H00000
TIME:	18/09/83 22:41:03

NAME	AS
N	106
X BAR	1.5820
STD DEV	0.78163

CELL	LOWER LIMIT	NMBR	%	ARITH.LIMIT
1	3.487	0	0.0	3070.
2	3.389	0	0.0	2452.
3	3.292	0	0.0	1958.
4	3.194	0	0.0	1563.
5	3.096	1	0.9	1248.
6	2.999	2	2.8	996.9
7	2.901	0	2.8	796.1
8	2.803	2	4.7	635.7
9	2.706	2	6.6	507.6
10	2.608	4	10.4	405.4
11	2.510	1	11.3	323.7
12	2.412	4	15.1	258.5
13	2.315	4	18.9	206.4
14	2.217	6	24.5	164.8
15	2.119	5	29.2	131.6
16	2.022	4	33.0	105.1
17	1.924	7	39.6	83.93
18	1.826	6	45.3	67.02
19	1.729	2	47.2	53.52
20	1.631	5	51.9	42.74
21	1.533	4	55.7	34.13
22	1.435	2	57.5	27.25
23	1.338	5	62.3	21.76
24	1.240	0	62.3	17.38
25	1.142	8	69.8	13.88
26	1.045	2	71.7	11.08
27	0.9469	2	73.6	8.849
28	0.8492	0	73.6	7.066
29	0.7515	7	80.2	5.642
30	0.6538	2	82.1	4.506
31	0.5561	6	87.7	3.598
32	0.4584	8	95.3	2.873
33	0.3607	0	95.3	2.294
34	0.2629	3	98.1	1.832
35	0.1652	0	98.1	1.463
36	0.6754E-01	0	98.1	1.168
37	-0.3016E-01	2	100.0	0.9329
38	-0.1279	0	100.0	0.7450
39	-0.2256	0	100.0	0.5949
40	-0.3233	0	100.0	0.4750
41		0	100.0	



TITLES	
PROGRAM:	PERCENTAGE HISTOGRAMS
DATA:	GOSSAN
RUN:	H00000
TIME:	18/09/83 22:41:03

NAME	BA
N	106
X BAR	3.2009
STD DEV	0.57572

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES BAR INTERVAL = 0.25000 STD DEV	ARITH.LIMIT
1		0	0.0		
2	0.3943	0	0.0		2.479
3	0.5383	0	0.0		3.453
4	0.6822	0	0.0		4.810
5	0.8261	0	0.0		6.701
6	0.9700	0	0.0		9.333
7	1.114	0	0.0		13.00
8	1.258	0	0.0		18.11
9	1.402	0	0.0		25.22
10	1.546	0	0.0		35.14
11	1.690	1	0.9	*	48.94
12	1.834	3	2.8	***	68.17
13	1.978	0	0.0		94.96
14	2.121	3	2.8	***	132.3
15	2.265	6	5.7	******	184.2
16	2.409	1	0.9	*	256.6
17	2.553	6	5.7	******	357.5
18	2.697	9	8.5	********	497.9
19	2.841	7	6.6	*******	693.6
20	2.985	9	8.5	********	966.1
21	3.129	9	8.5	********	1346.
22	3.273	14	13.2	**************	1875.
23	3.417	7	6.6	*******	2611.
24	3.561	7	6.6	*******	3637.
25	3.705	7	6.6	*******	5066.
26	3.849	5	4.7	*****	7057.
27	3.993	12	11.3	**********	9830.
28	4.136	0	0.0		0.1369E+05
29	4.280	0	0.0		0.1907E+05
30	4.424	0	0.0		0.2657E+05
31	4.568	0	0.0		0.3700E+05
32	4.712	0	0.0		0.5154E+05
33	4.856	0	0.0		0.7180E+05
34	5.000	0	0.0		0.1000E+06
35	5.144	0	0.0		0.1393E+06
36	5.288	0	0.0		0.1940E+06
37	5.432	0	0.0		0.2703E+06
38	5.576	0	0.0		0.3765E+06
39	5.720	0	0.0		0.5244E+06
40	5.864	0	0.0		0.7305E+06
41	6.008	0	0.0		0.1018E+07

TITLES			NAME	BA
	PROGRAM:	PERCENTAGE CUMULATIVE FREQUENCY PLOTS		
	DATA:	GOSSAN	N	106
	RUN:	H00D00	X BAR	3.2009
	TIME:	18/09/83 22:41:03	STD DEV	0.57572

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES — BAR INTERVAL = 0.12500 — STD DEV	ARITH.LIMIT
1	4.604	0	0.0		0.4020E+05
2	4.532	0	0.0		0.3406E+05
3	4.460	0	0.0		0.2886E+05
4	4.388	0	0.0		0.2445E+05
5	4.316	0	0.0		0.2072E+05
6	4.244	0	0.0		0.1756E+05
7	4.172	0	0.0		0.1487E+05
8	4.100	0	0.0		0.1260E+05
9	4.029	0	0.0		0.1068E+05
10	3.957	12	11.3		9048.
11	3.885	4	15.1		7666.
12	3.813	5	19.8		6496.
13	3.741	2	21.7		5504.
14	3.669	3	24.5		4663.
15	3.597	5	29.2		3951.
16	3.525	0	29.2		3348.
17	3.453	6	34.9		2837.
18	3.381	8	42.5		2404.
19	3.309	4	46.2		2036.
20	3.237	6	51.9		1726.
21	3.165	4	55.7		1462.
22	3.093	3	58.5		1239.
23	3.021	5	63.2		1050.
24	2.949	5	67.9		889.3
25	2.877	5	72.6		753.5
26	2.805	1	73.6		638.5
27	2.733	4	77.4		541.0
28	2.661	5	82.1		458.4
29	2.589	2	84.0		388.4
30	2.517	3	86.8		329.1
31	2.445	1	87.7		278.8
32	2.373	3	90.6		236.2
33	2.301	2	92.5		200.2
34	2.229	3	95.3		169.6
35	2.157	0	95.3		143.7
36	2.085	1	96.2		121.8
37	2.014	0	96.2		103.2
38	1.942	0	96.2		87.41
39	1.870	2	98.1		74.06
40	1.798	2	100.0		62.75
41		0	100.0		

1 5 10 20 30 40 50 60 70 80 90 95 99

TITLES	
PROGRAM:	PERCENTAGE HISTOGRAMS
DATA:	GOSSAN
RUN:	HOODOO
TIME:	18/09/83 22:41:03

NAME	HG
N	106
X BAR .	2.4231
STD DEV	1.0058

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES BAR INTERVAL = 0.25000 STD DEV	ARITH.LIMIT
1		0	0.0		
2	-2.480	0	0.0		0.3309E-02
3	-2.229	0	0.0		0.5905E-02
4	-1.977	0	0.0		0.1054E-01
5	-1.726	0	0.0		0.1880E-01
6	-1.474	0	0.0		0.3354E-01
7	-1.223	0	0.0		0.5985E-01
8	-0.9715	0	0.0		0.1068
9	-0.7201	0	0.0		0.1905
10	-0.4686	0	0.0		0.3399
11	-0.2172	0	0.0		0.6065
12	0.3430E-01	0	0.0		1.082
13	0.2858	0	0.0		1.931
14	0.5372	0	0.0		3.445
15	0.7887	15	14.2	**********	6.147
16	1.040	0	0.0		10.97
17	1.292	14	13.2	**********	19.57
18	1.543	10	9.4	********	34.92
19	1.794	6	5.7	******	62.30
20	2.046	6	5.7	******	111.2
21	2.297	6	5.7	******	198.3
22	2.549	4	3.8	****	353.9
23	2.800	5	4.7	*****	631.4
24	3.052	14	13.2	**********	1127.
25	3.303	6	5.7	******	2010.
26	3.555	11	10.4	**********	3586.
27	3.806	9	8.5	********	6399.
28	4.058	0	0.0		0.1142E+05
29	4.309	0	0.0		0.2037E+05
30	4.560	0	0.0		0.3635E+05
31	4.812	0	0.0		0.6485E+05
32	5.063	0	0.0		0.1157E+06
33	5.315	0	0.0		0.2065E+06
34	5.566	0	0.0		0.3684E+06
35	5.818	0	0.0		0.6572E+06
36	6.069	0	0.0		0.1173E+07
37	6.321	0	0.0		0.2092E+07
38	6.572	0	0.0		0.3733E+07
39	6.824	0	0.0		0.6661E+07
40	7.075	0	0.0		0.1188E+08
41	7.326	0	0.0		0.2121E+08

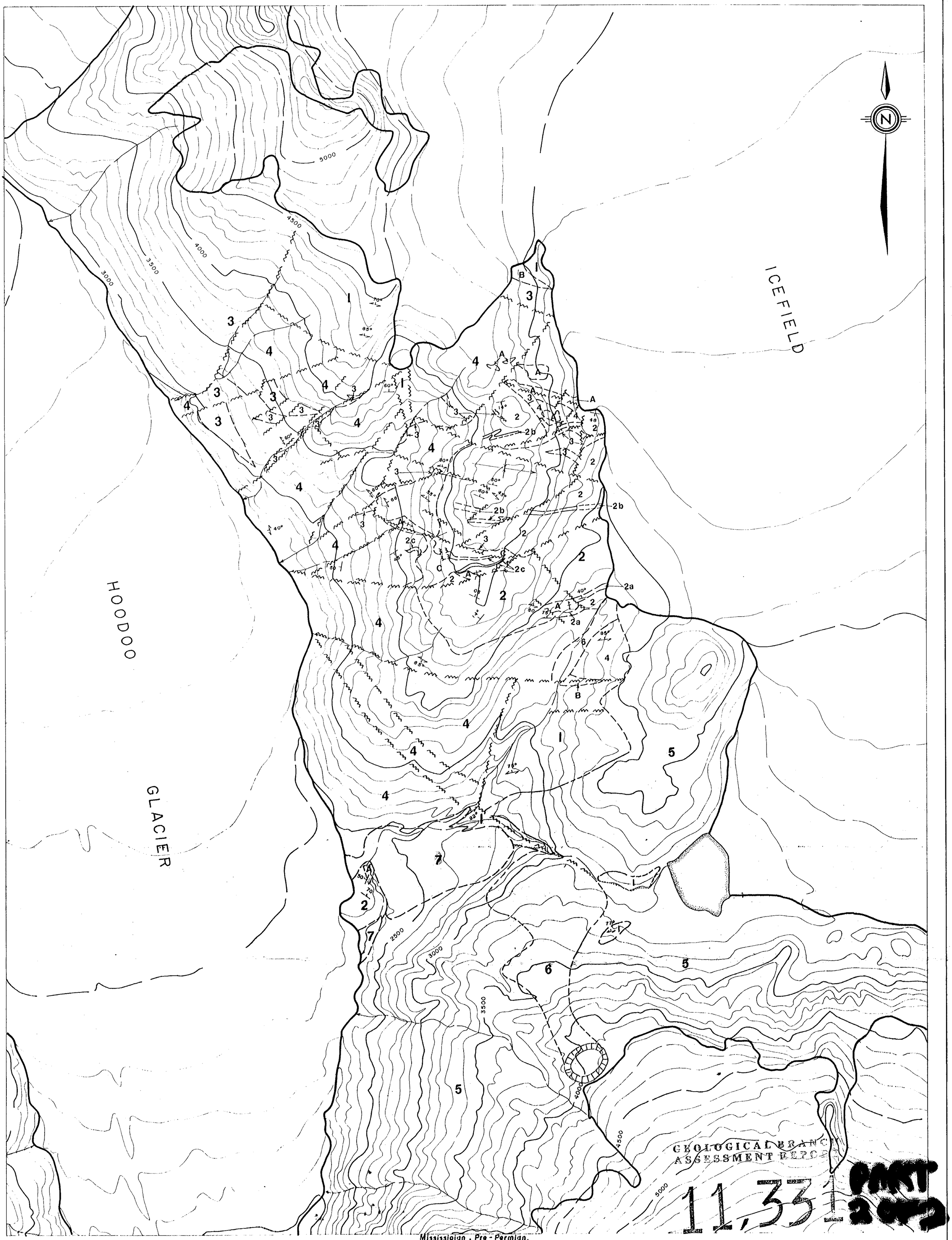
TITLES	
PROGRAM:	PERCENTAGE CUMULATIVE FREQUENCY PLOTS
DATA:	GOSSAN
RUN:	H00D00
TIME:	18/09/83 22:41:03

NAME	HG
N	106
X BAR	2.4231
STD DEV	1.0058

CELL	LOWER LIMIT	NMBR	%	LOGARITHMIC VALUES	ARITH.LIMIT
1	4.875	0	0.0	*	0.7495E+05
2	4.749	0	0.0	*	0.5611E+05
3	4.623	0	0.0	*	0.4201E+05
4	4.498	0	0.0	*	0.3145E+05
5	4.372	0	0.0	*	0.2354E+05
6	4.246	0	0.0	*	0.1763E+05
7	4.120	0	0.0	*	0.1320E+05
8	3.995	4	3.8	*	9879.
9	3.869	2	5.7	*	7395.
10	3.743	3	8.5	*	5537.
11	3.618	7	15.1	*	4145.
12	3.492	8	22.6	*	3103.
13	3.366	2	24.5	*	2323.
14	3.240	3	27.4	*	1739.
15	3.115	7	34.0	*	1302.
16	2.989	6	39.6	*	974.7
17	2.863	3	42.5	*	729.7
18	2.737	2	44.3	*	546.3
19	2.612	2	46.2	*	409.0
20	2.486	0	46.2	*	306.2
21	2.360	4	50.0	*	229.2
22	2.235	3	52.8	*	171.6
23	2.109	5	57.5	*	128.5
24	1.983	0	57.5	*	96.18
25	1.857	4	61.3	*	72.00
26	1.732	7	67.9	*	53.90
27	1.606	4	71.7	*	40.35
28	1.480	1	72.6	*	30.21
29	1.354	6	78.3	*	22.62
30	1.229	8	85.8	*	16.93
31	1.103	0	85.8	*	12.68
32	0.9773	15	100.0	*	9.490
33	0.8515	0	100.0	*	7.104
34	0.7258	0	100.0	*	5.319
35	0.6001	0	100.0	*	3.982
36	0.4743	0	100.0	*	2.981
37	0.3486	0	100.0	*	2.232
38	0.2229	0	100.0	*	1.671
39	0.9716E-01	0	100.0	*	1.251
40	-0.2856E-01	0	100.0	*	0.9363
41		0	100.0	*	

BAR INTERVAL = 0.12500 STD DEV

1 5 10 20 30 40 50 60 70 80 90 95 99



Recent
Pliocene & Younger

7 — GLACIAL OUTWASH, SAND, GRAVEL.

6 — HOODOO VOLCANICS – AH-AH flow, yellow olivine basalt.

5 — " " – Undifferentiated: Columnar basalt, course trachyte feldspar porphyry; debris flows, ash, obsidian and scoria

Permian ? Pre-Upper Triassic, Post Mississippian.

4 — UNDIFFERENTIATED VOLCANIC AND SEDIMENTARY ROCKS (units 1 to 3 inclusive).

3 — ARGILLITE, META-ARGILLITE, MINOR SANDSTONE AND GREYWACKE.

2 — TUFFS, GREYWACKE, VOLCANIC SANDSTONE, GRITS, CHERT, MINOR ANDESITE FLOWS AND BRECCIAS – 2a: chert pebble/boulder conglomerate.

2b: thin bedded, sharp banded tuffs, volcanic sandstone.

2c: thin bedded chert.

Mississipian, Pre-Permian.

1 — STIKINE ASSEMBLAGE – PHYLLITES, CHLORITE AND HEMATITE SCHISTS, QUARTZ MUSCOVITE SCHISTS, GREENSTONES, MINOR ARGILLACEOUS SCHISTS.

A — SILICIFIED AND PYRITIZED ZONES OF MINERALIZATION.

B — ZONES OF INTENSE QUARTZ CARBONATE ALTERATION.

C — INTRUSIVE GABBRO (Age unknown)

FIG. 3

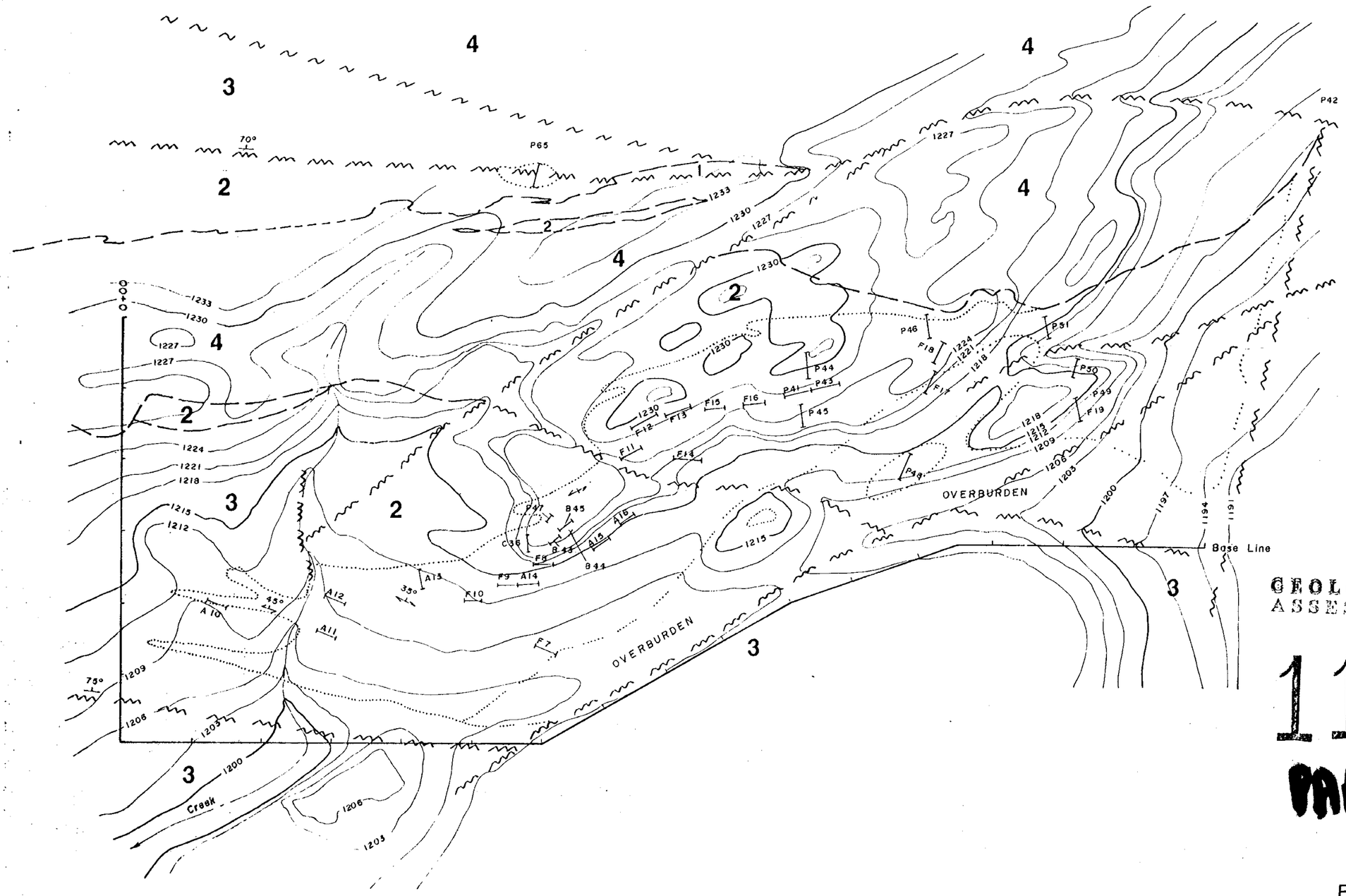
0 100 200 300 400 500 600 700 800
METRES

KERR ADDISON MINES LTD

HOODOO CLAIM GROUP

GEOLOGY

SCALE – 1:12,500	DATE –
DRAWN BY –	DATA –
NTS –	MAP No



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

FIG. 4

LIMIT OF MINERALIZATION (GOSSAN)

4 GABBRO

3 TUFFS & BRECCIA

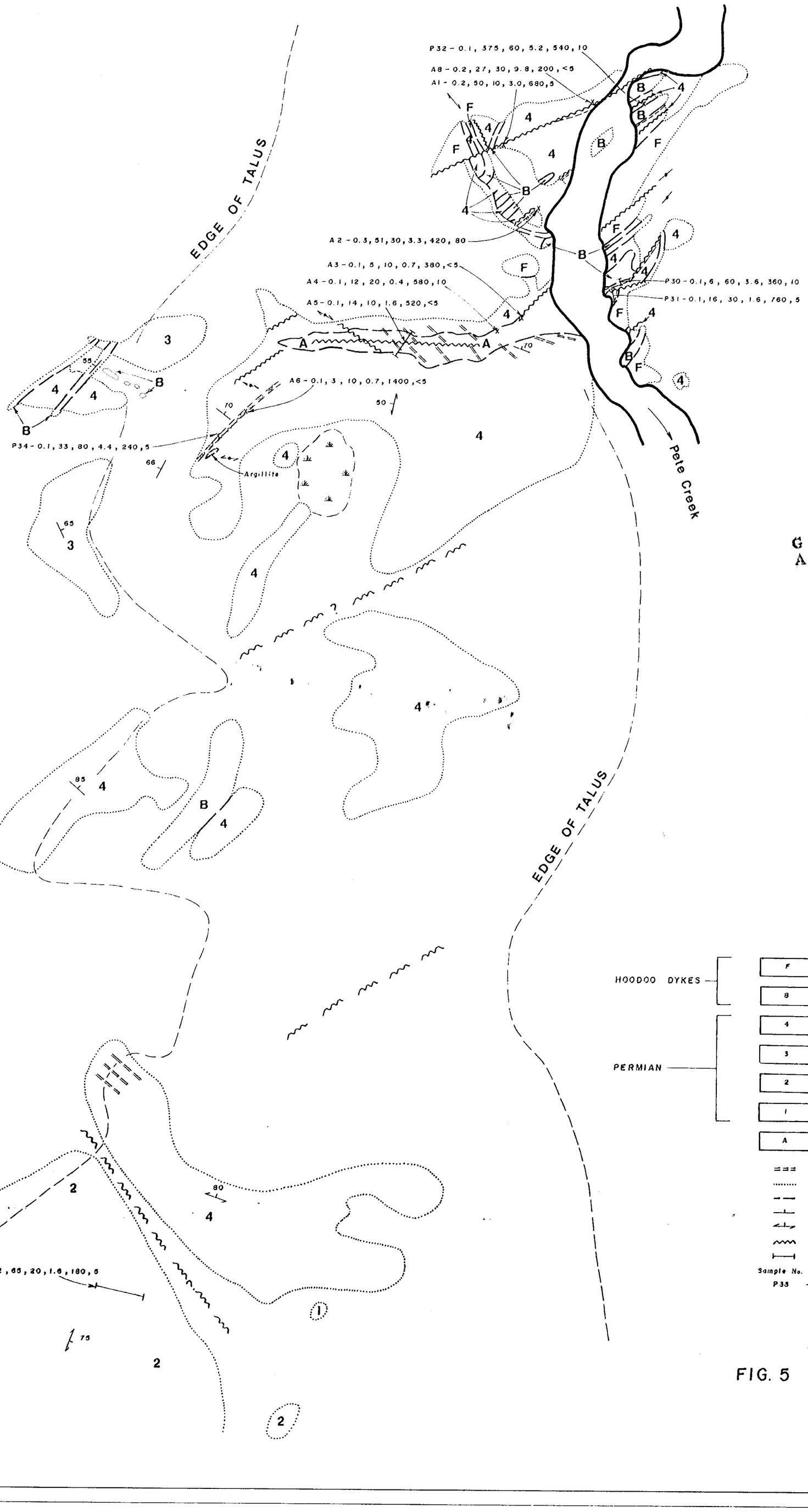
2 CHERT

1 ARGILLITE

FAULT - INFERRED

0 5 10 20 30 40 50
METRES

KERR ADDISON MINES LTD	
HOODOO CLAIM GROUP	
DISCOVERY GOSSAN	
GEOLOGY SAMPLE LOCATIONS	
SCALE - 1 : 1 000	DATE - AUGUST, 1983
DRAWN BY - P. Hobeck, P. Haillot	DATA - P. Hobeck, A. Chevalier
NTS - 104 B 14	FIG. No.



GEOLOGICAL BRANCH
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11,331

LEGEND

HOODOO DYKES
- F — Quartz feldspar porphyry
- B — Trachybasalt

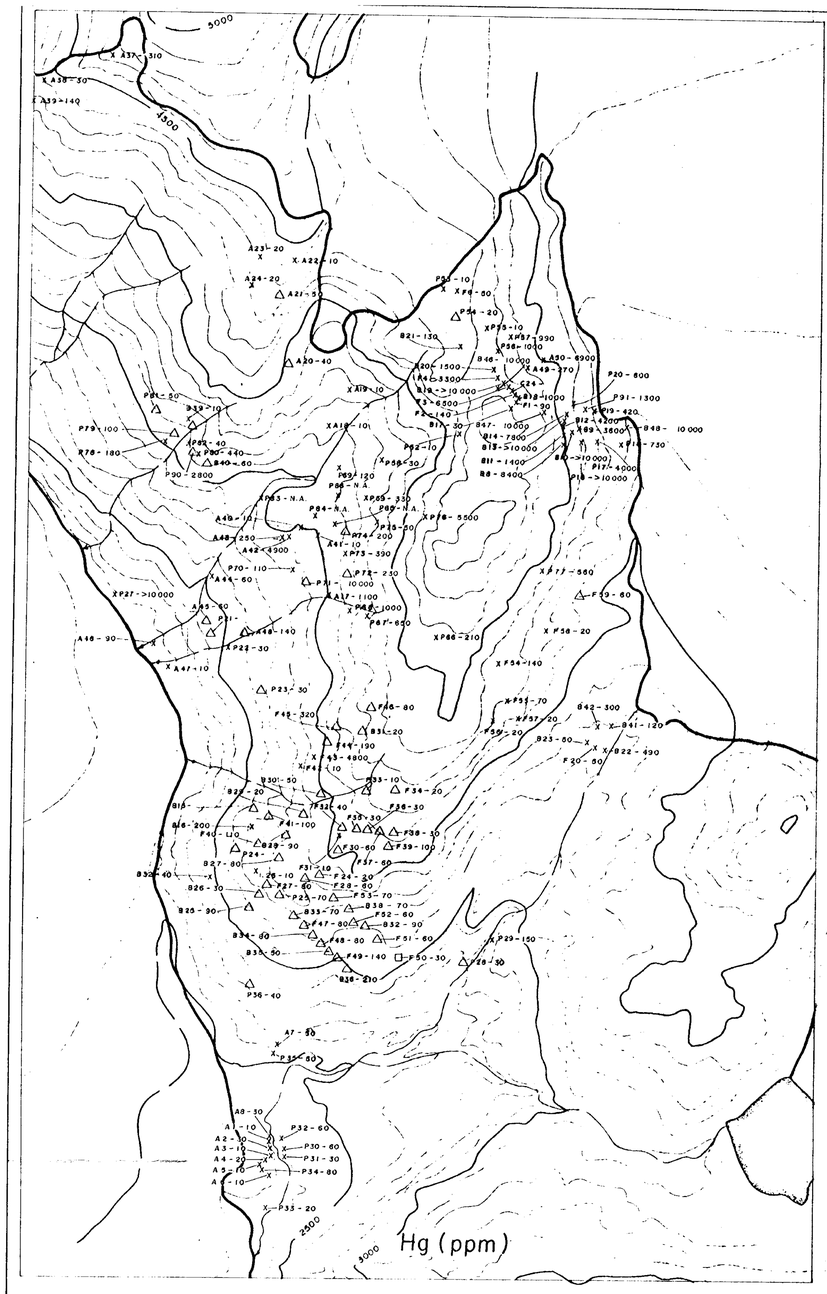
PERMIAN
- 4 — Andesite to dacite tuffs, tuff breccia.
- 3 — Volcanic conglomerate/breccia
- 2 — Rhyolite breccia.
- 1 — Andesite
- A — Zone of quartz, carbonate and clay alteration.

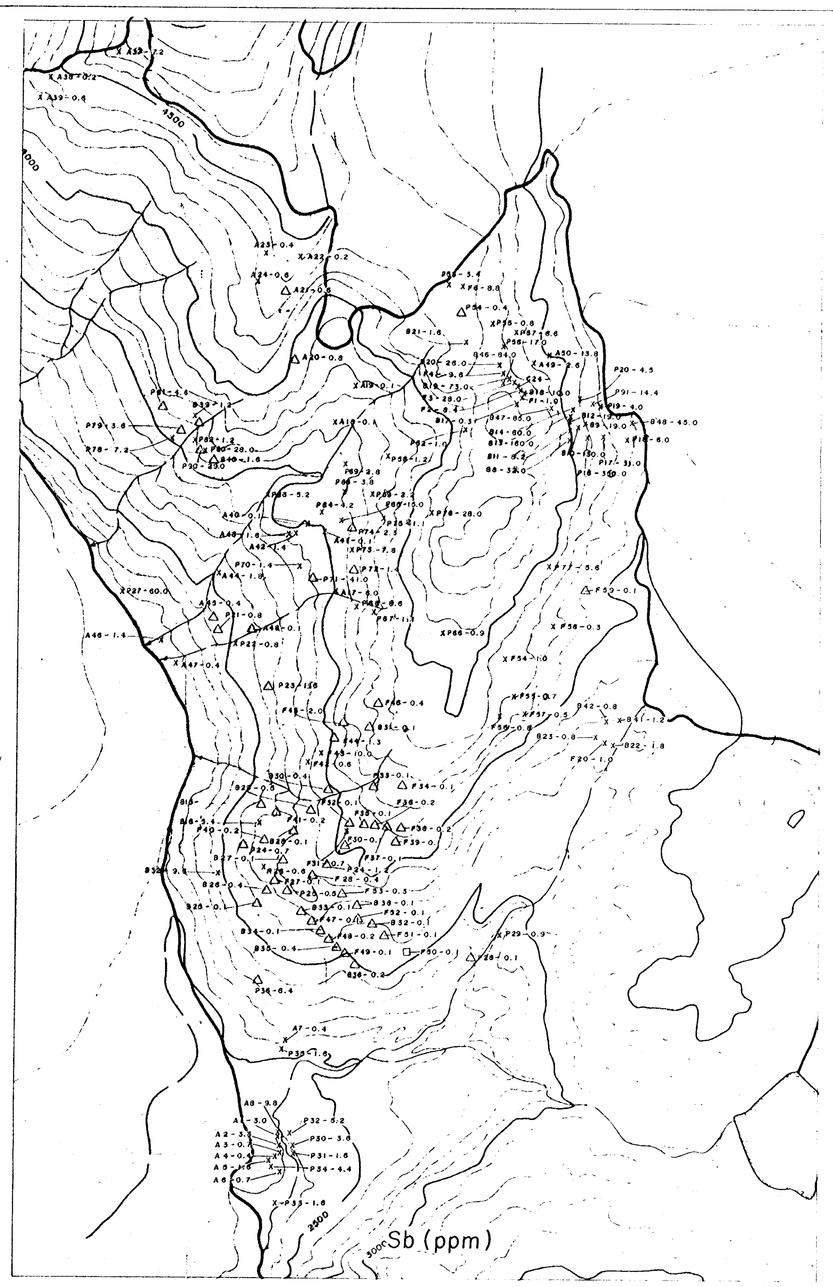
- ≡≡≡ Quartz, quartz carbonate veins and alteration zones.
- ..... Limit of outcrop
- — — Geological contact (approximate, defined).
- Bedding, strike and dip.
- Foliation, " " " .
- Fault (inferred, defined, assumed)
- Sampling site

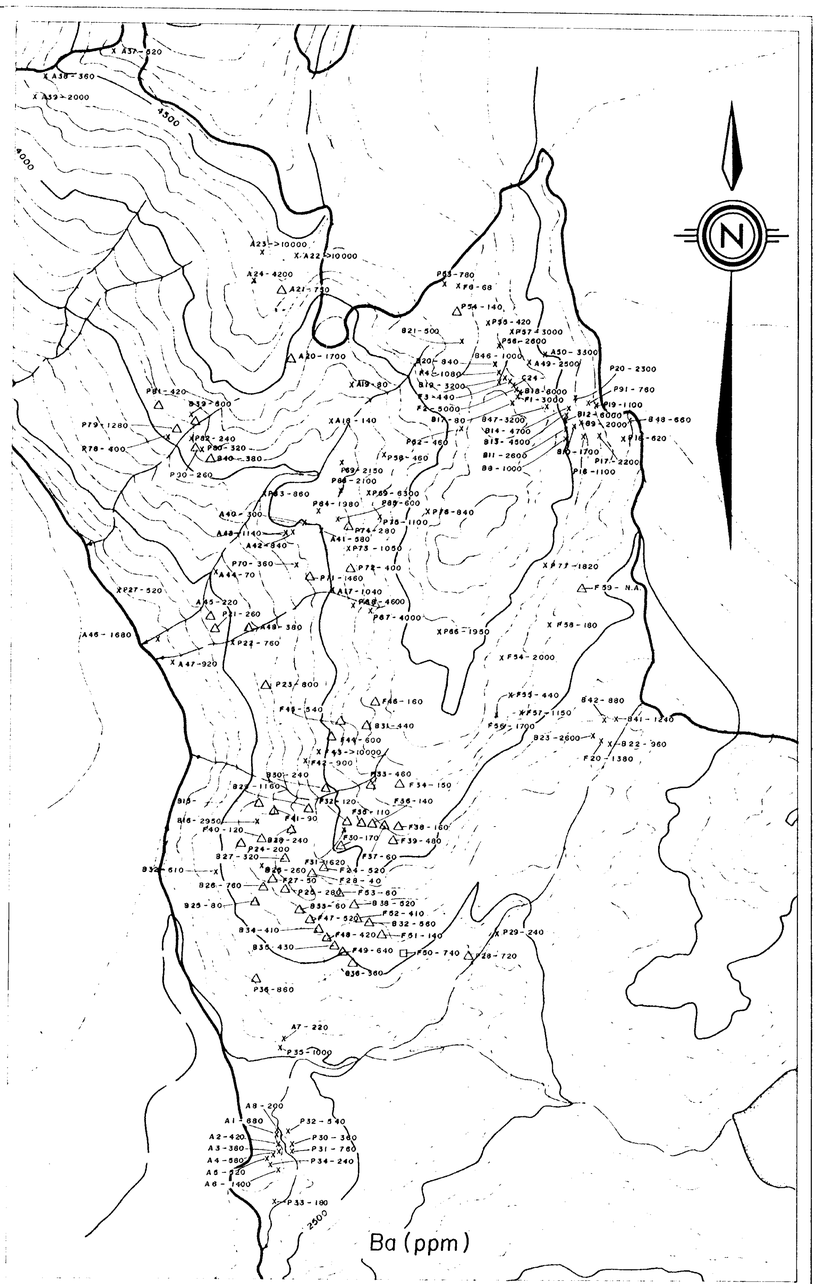
Sample No. Ag(ppm), As(ppm), Hg(ppb), Sb(ppm), Ba(ppm), Au(ppb).
P33 - 0.2, 65, 20, 1.6, 180, 5.

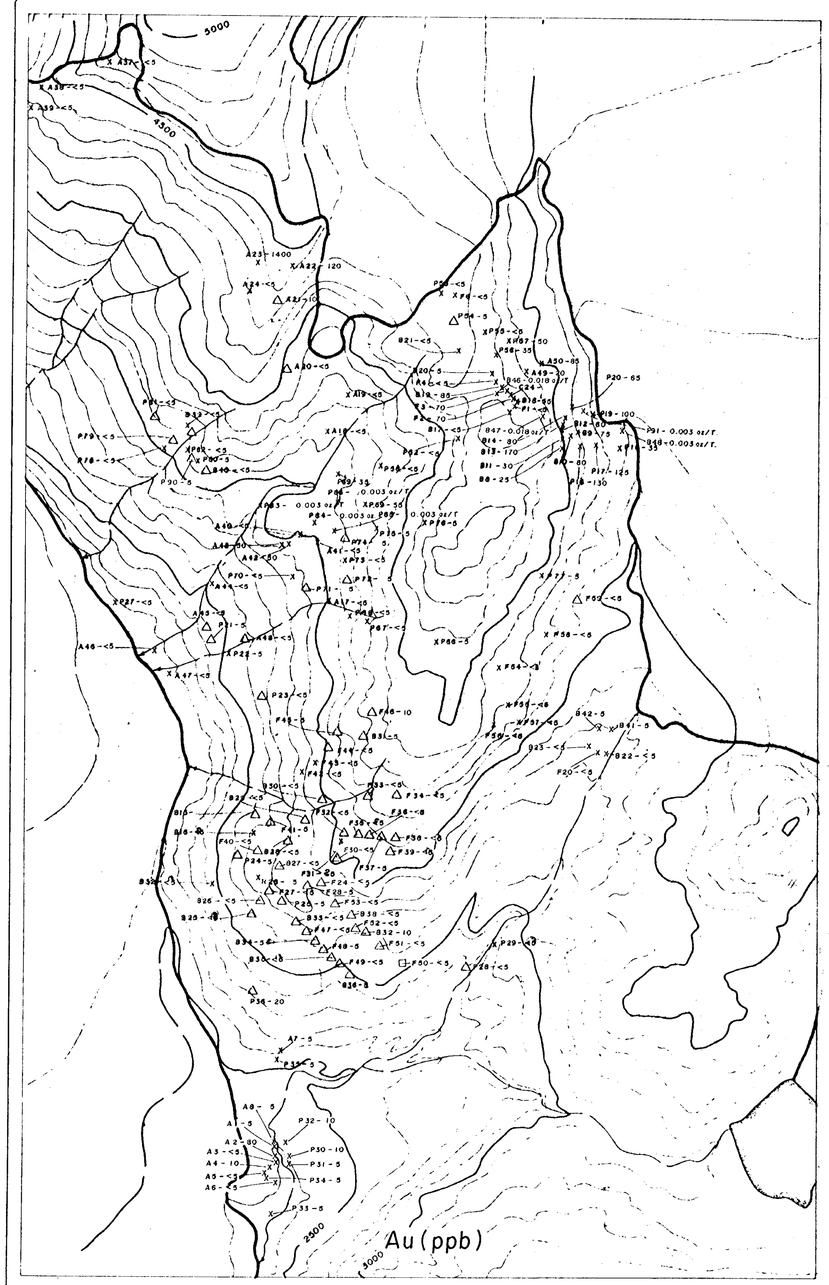
FIG. 5

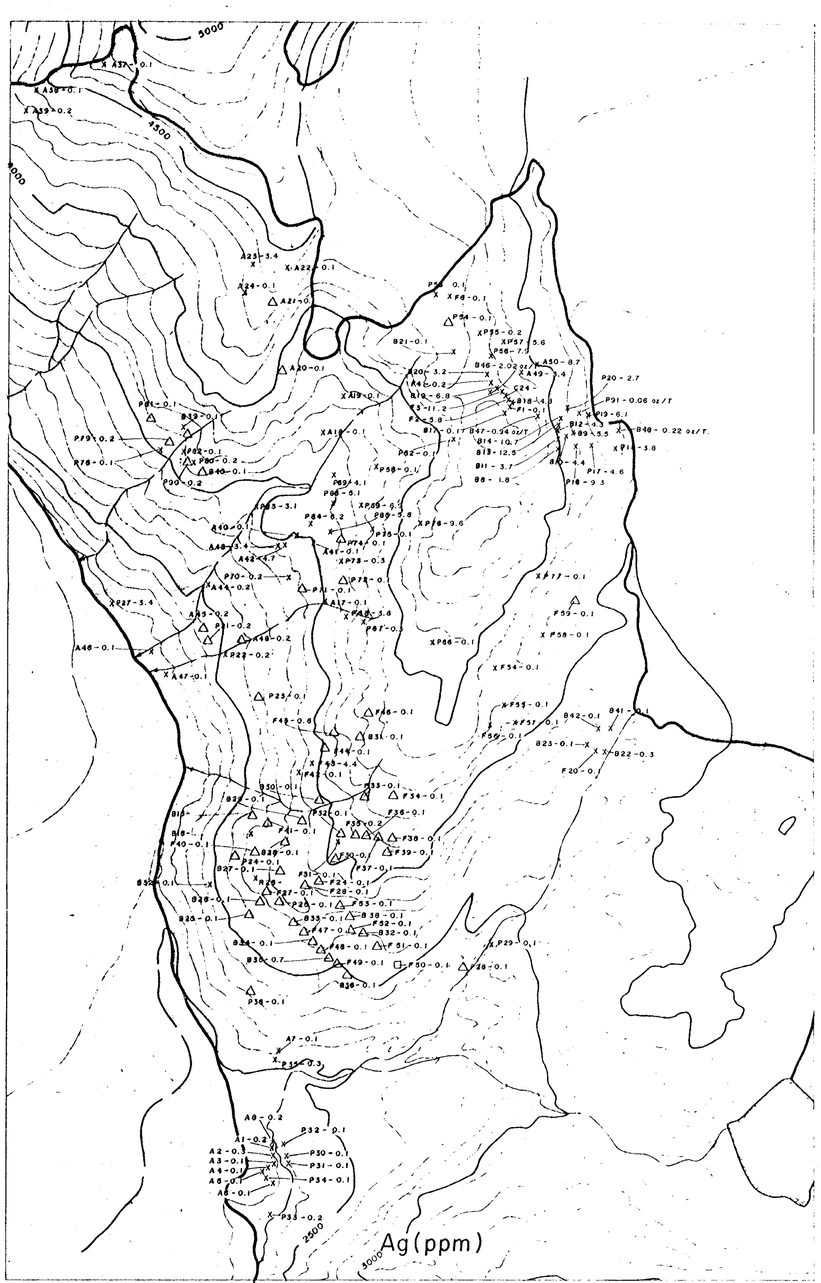
KERR ADDISON MINES LTD	
HOODOO CLAIM GROUP	
PLANTATION GOSSAN	
GEOLOGY GEOCHEMISTRY	
SCALE - 1:500	DATE - OCTOBER, 1983
DRAWN BY - P.HAILLOT	DATA - P.HOLBEK, A.CH.
NTS - 104 B 14	FIG. No.

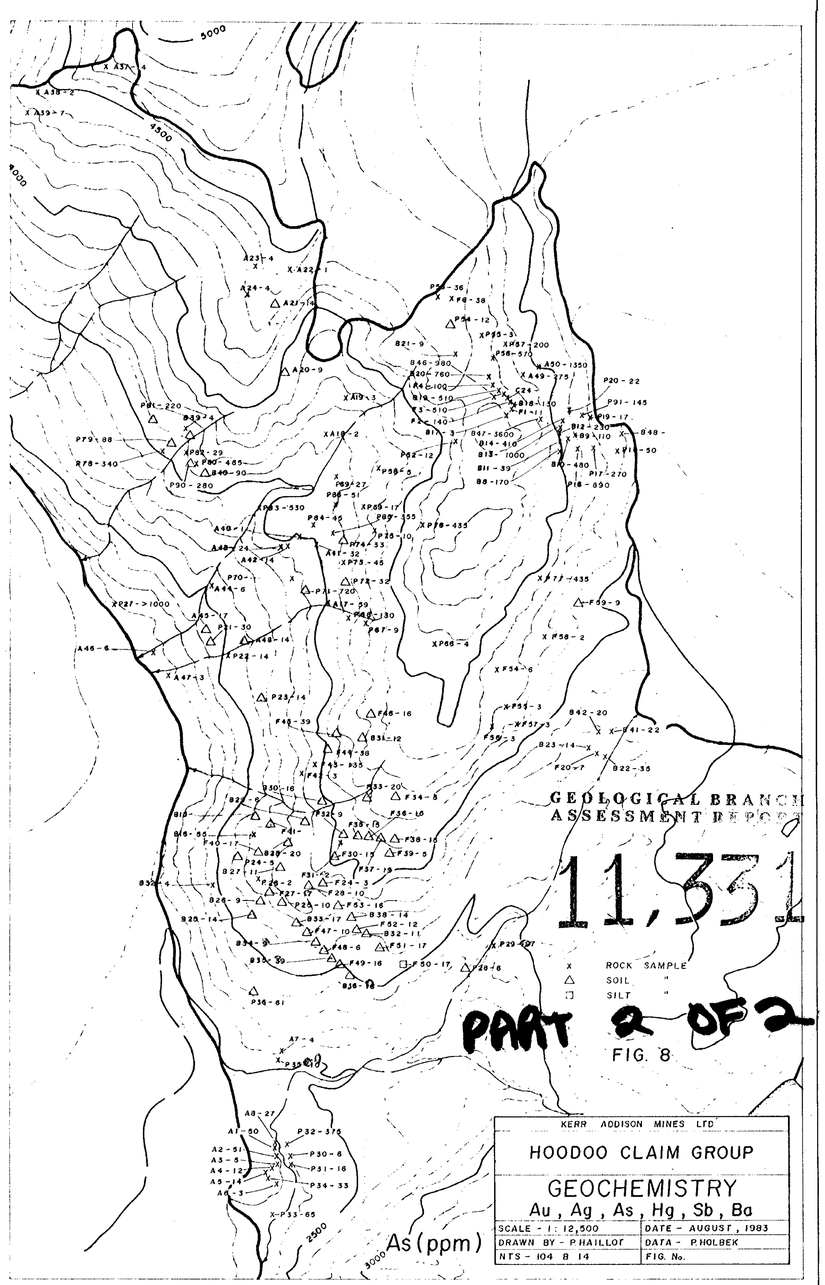












GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,331

X ROCK SAMPLE
△ SOIL "
□ SILT "

PART 2 OF 2

FIG. 8

KERR ADDISON MINES LTD

HOODOO CLAIM GROUP

GEOCHEMISTRY
Au, Ag, As, Hg, Sb, Ba

SCALE - 1: 12,500	DATE - AUGUST, 1983
DRAWN BY - P.HAILLOT	DATA - P.HOLBEK
NTS - 104 B 14	FIG. No.

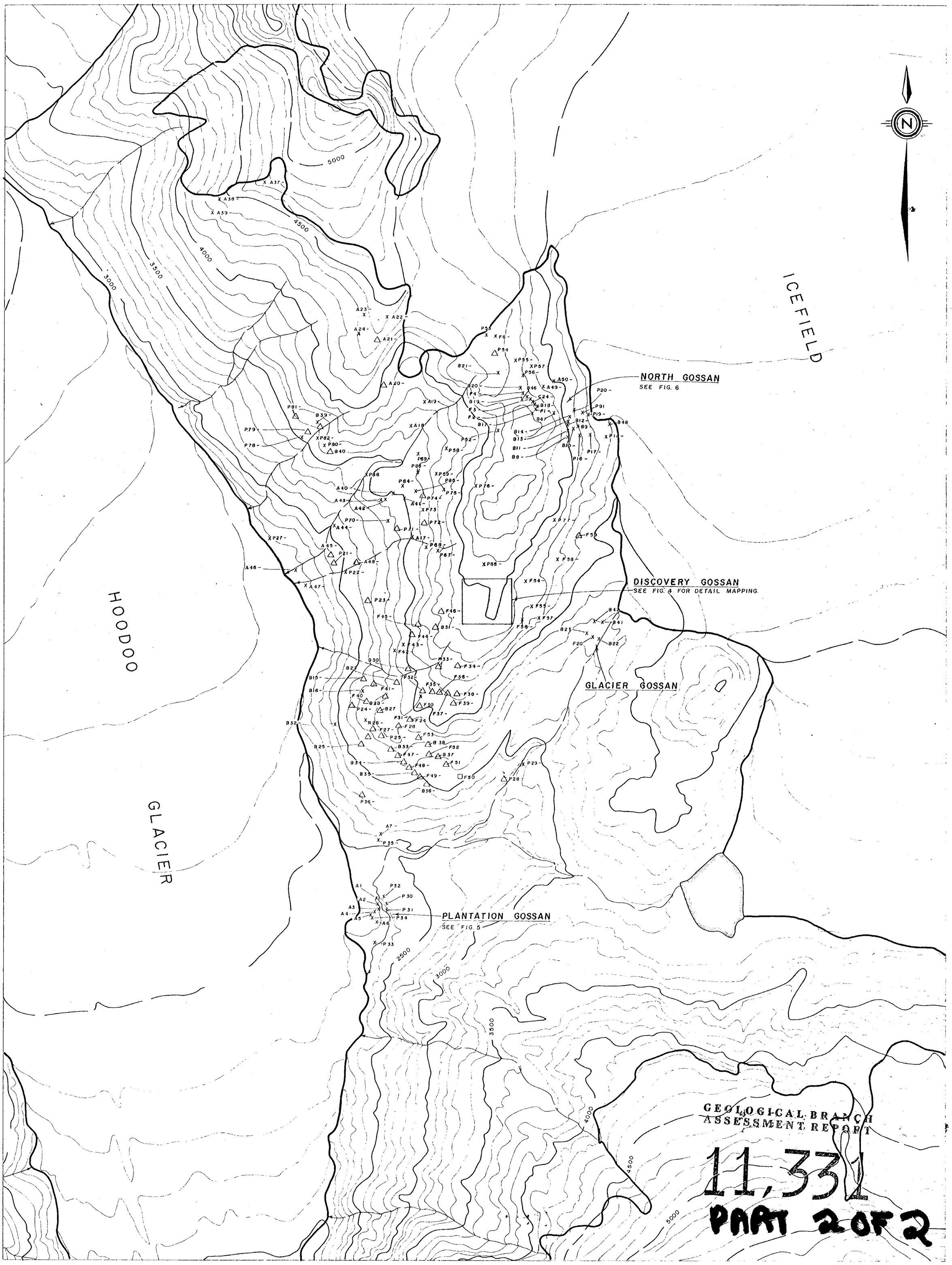


FIG. 7

0 100 200 300 400 500 600 700 800
METRES

KERR ADDISON MINES LTD	
HOODOO CLAIM GROUP	
SAMPLE LOCATIONS	
SCALE - 1:12,500	DATE - AUGUST, 1983
DRAWN BY - P. HAILLOT	DATA - P. HOLBECK
NTS - 104 B 14	MAP No.

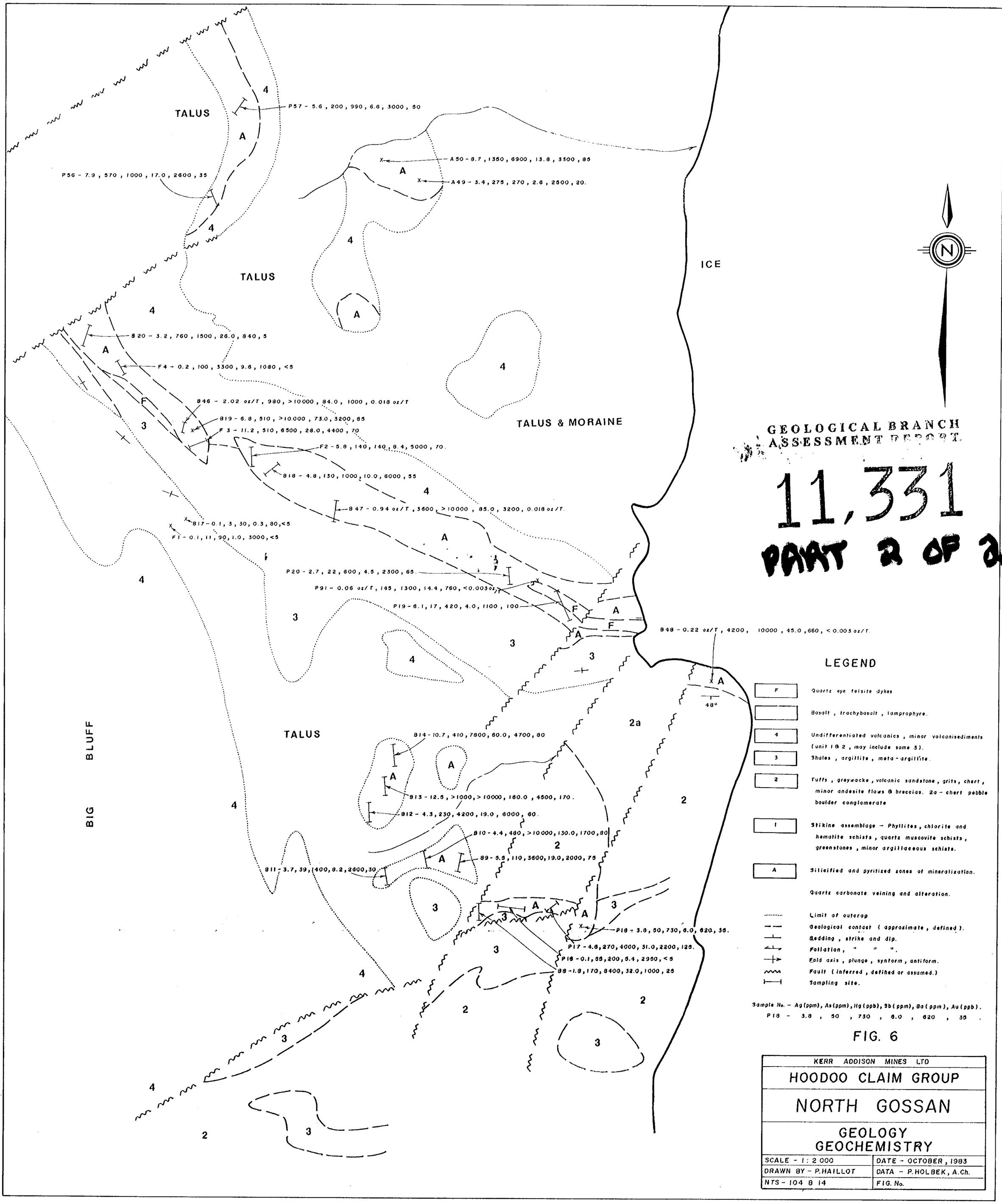


FIG. 6

KERR ADDISON MINES LTD	
HOODOO CLAIM GROUP	
NORTH GOSSAN	
GEOLOGY GEOCHEMISTRY	
SCALE - 1 : 2 000	DATE - OCTOBER , 1983
DRAWN BY - P. HAILLOT	DATA - P. HOLBEK , A.Ch.
NTS - 104 B 14	FIG. No.