COMINCO LTD.

EXPLORATION
NTS:92H/9/16

WESTERN DISTRICT
August 10, 1981

ASSESSMENT REPORT

ON A SOIL GEOCHEMICAL, GROUND MAGNETIC, V.L.F. AND GEOLOGICAL MAPPING SURVEY OF THE TOBA PROPERTY

(Toba, Toba Three, Toba Four & Toba Six Mineral Claims, 40 Units)

DILLARD CREEK AREA, SIMILKAMEEN M.D., B.C.

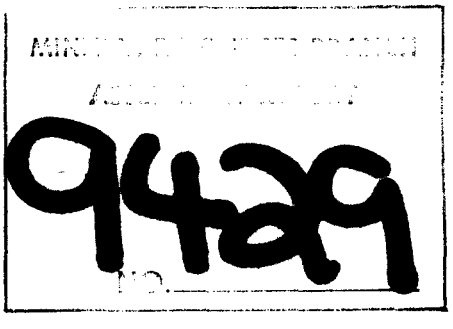
(work performed August 4, 1980 to July 2, 1981)

LATITUDE: 49°44'N

LONGITUDE: 120°26'W

REPORT BY:

D.T. MEHNER



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(TOBA Mineral Claims, 40 Units)

DILLARD CREEK AREA, SIMILKAMEEN M.D., B.C.

SUMMARY

The Toba property is an alkaline porphyry copper prospect located along the eastern edge of the Aspen Grove copper belt of south central B.C. Geological mapping, soil geochemistry, ground magnetometer and V.L.F. surveys were conducted over part of the property in order to evaluate its potential. Results of the work indicate two large copper soil anomalies (1200 m x 600 m and 800 m x 500 m) that coincide with relatively low ground magnetic values in an area underlain by weakly mineralized and altered andesite to basalt flows and diorites.

It is recommended that soil geochemical, ground magnetic and V.L.F. surveys be conducted over the remainder of the property and that the better copper soil anomalies be surveyed with IP.

INTRODUCTION

The Toba property (Toba mineral claims, 40 units) was staked during the period July 1980 to December 1980 to cover an alkaline porphyry copper prospect. Prior to staking a number of recconnaissance soil lines were carried out and 57 soil samples collected. Encouraging results combined with favourable geology and the presence of widespread, finely disseminated sulphides led to the subsequent staking.

Since then 29 soil samples were collected from 1.7 km of grid line by M. Fawcett and D. Mehner on August 4, 1980, plus an additional 18.9 km of grid line were constructed and 189 soil samples were collected by Doug Pauls and Dan Pauls between May 21 and June 28, 1981. Ground magnetic and V.L.F. survey were carried out by D. Mehner and B. Cousens between June 15 and July 3 and the property was geologically mapped at 1:5000 scale by B. Cousens between May 30 and July 2, 1981.

LOCATION AND ACCESS

The Toba property is located approximately 32 km due north of Princeton B.C. and 6 km south east from the southern end of Missezula Lake(Plate 1). The centre of the property is situated at about 120°26' west longitude and 49°44' north latitude.

Access to the property is easily obtained by turning off Highway 5 approximately 48 km north of Princeton, and heading east along the "Dillard Main" gravel logging road to the 28 km mark.

TOPOGRAPHY AND VEGETATION

The property is situated along the top and north facing slopes of two gently sloped hills southeast of Missezula Lake at an elevation of 1450 m to 1700 m. Vegetation coverage is dense with spruce and pine covering the entire property. Alder and willow are common along the creek valleys. Numerous creeks, swamps and ponds provide abundant water sources for drilling.

PROPERTY AND OWNERSHIP

The Toba property is located in the Similkameen Mining Division and is 100% owned by Cominco Ltd. It consists of the following claims.

CLAIM NAME	RECORD NO.	UNITS	DATE RECORDED	DATE DUE
Toba	1096	20	July 30/80	July 30/81
Toba Three	1166	10	Sept.16/80	Sept.16/81
Toba Four	1172	6	Sept.23/80	Sept.23/81
Toba Six	1343	4	Dec. 11/80	Dec. 11/81

PREVIOUS WORK

The ground covered by the Toba claims is an area that has been previously staked by various people over the years, however the only group known to have carried out any work was Noranda Exploration. In 1972 they conducted both soil and biogeochemical surveys along with geological mapping on the Lorry and Sp claims(assessment report 4341) and soil sampling on the Becki claims(assessment report 4342).

GRID PREPARATION

Prior to beginning any of the surveys on the property a reconnaissance style grid with an east-west baseline and north-south picket lines was established. The grid lines were located with the use of compass and topochains. All lines were blazed and flagged with only minimal bush clearing taking place. Stations were established at 50 meter intervals by nailing pre-stamped metal tags with the grid co-ordinates to either a tree or picket. Red and blue flagging was attached to the tags to readily identify station locations.

Lines established in 1980 were only flagged.

GEOLOGY

REGIONAL

The Toba property occurs along the eastern edge of the Aspen Grove copper belt in an area underlain by Upper Triassic Nicola volcanics that Preto(1979) has referred to as Eastern Belt rocks. These are characterized by a lack of intrusive rocks and a predominance of well bedded volcanic sediments, coarse volcanic conglomerates, tuffs, lahar breccias and trachyandesite and trachybasalt flows. Separating the Eastern Belt rocks from those of the Central Belt to the west is the north-south trending Summers Creek fault while to the east, granitic rocks of the Jurassic, Pennask Batholith are found.

PROPERTY

The geology in the immediate vicinity of the Toba claims consists of a volcanic pile made up of well bedded volcaniclastics, mafic to intermediate volcanic flows and coarse andesite volcanic fragementals of the Nicola Group intruded by coeval, altered and mineralized diorites, monzonites and syenites. These rocks are in turn intruded by Jurassic quartz monzonites of the Pennask Batholith about 500 meters east of the Toba claims. Overlying much of the property particularily between lines 12W and 18W(Plate 2) is a layer of glacial till of variable and locally undeterminable thickness.

Rock units found underlying the Toba claims are:

Coarse Volcaniclastics Unit I, Plate 2

This unit consists of rounded to angular fragments of medium grain diorite, porphyritic andesite and fine grained andesite in a fine grained andesite to pyroxene crystal rich andesite matrix. Fragments range up to 4 cm in size and compose 20% to 75% of the rock unit.

Fine Grained Volcaniclastics Unit II, Plate 2

Unit II is characterized by thinly bedded (1 to 10 cm) andesitic, volcanic arenites and siltstones with possible interbedded andesitic tuffs. Contacts between successive beds tend to be sharp although locally graded bedding is present. The very fine grained units are distinguished by colour with beds alternating between light grey-green to dark green. Beds strike in a predominantly north to northeasterly direction and dip steeply (50°) to the west.

Porphyritic Andesite to Basalt Unit III a & b Plate 2

IIIa Subunit IIIa is a fine grained porphyritic andesite to basalt that is dark green in colour and contains up to 15%, lath shaped hornblende crystals that range in size from 0.5 to 2 mm. The rock may be an altered equivalent of unit V.

IIIb Subunit IIIb is a porphyritic andesite to basalt that is dark grey-green in colour and contains 15% to 60% euhedral pyroxene crystals that range in size from 1 to 4 mm. Phenocrysts often display a trachytic texture, although locally they show complete randomness.

Medium to Fine Grained Diorite Unit IV, Plate 2

Unit IV is a medium to fine grained, equigranular diorite, ranging in grain size from 1 to 4 mm. Euhedral mafic minerals constitute on average, 35% of the rock and consist primarily of green-black pyroxene, lesser amounts of hornblende and locally biotite. Subhedral plagioclase averages about 55% of the rock while the remaining 10% consists largely of interstitial K-spar. Where substantial outcrops of diorite are found they show a gradation from a medium grained, obvious looking diorite to a fine grained rock that resembles andesite or basalt. Often these finer grained rocks show well developed hornfelsed textures that include a sugary, recrystallized appearance and the presence of biotite.

Porphyritic Mafic Syenite Unit V, Plate 2

Unit V is a fine to medium grained porphyritic syenite containing 35-40%, 1-2 mm euhedral hornblende and pyroxene crystals, 10-15%, .5-1 mm plagioclase crystals and about 50% interstitial K-spar. The fine grain size combined with the abundance of mafics makes the rock appear to be a basalt. Overall distribution of the syenite is limited with the unit only identified between lines 22W and 24W.

Porphyritic Monzonite Unit VI, Plate 2

The porphyritic monzonite is a light grey coloured rock containing 55%, 2 mm euhedral plagioclase crystals and 10% euhedral hornblende crystals that attain lengths up to 8 mm set in a fine grained K-spar groundmass. Minor biotite occurring as euhedral "books" up to 4 mm in size occur throughout. As with Unit V, distritution of the porphyritic monzonite appears limited with only two outcrops of the unit identified.

ALTERATION

All rocks mapped on the Toba property have undergone alteration that is likely due to a combination of low grade hydrothermal alteration, regional metamorphism and contact metamorphism.

Epidote is the most common alteration mineral, occurring primarily as a fracture filling in relatively fresh looking volcanic flows and volcaniclastic rocks or locally as a pervasive replacement mineral. Calcite is often associated with the epidote.

Locally, chlorite replaces primary mafic minerals and occurs as fracture filling or veins. Weak to moderate albitization and leaching is often associated with highly iron stained, fine grained volcaniclastic rocks. Secondary K-spar occurs as a very minor alteration. Biotite development is present in the diorites on the east side of the property, but likely is due to contact metamorphism induced by the nearby Pennask Batholith.

MINERALIZATION

Mineralization in the form of disseminated and fracture controlled pyrite, often reaching up to 5% of the rock locally is found throughout most of the property(Plate 2). Pyrite is also associated with epidote-calcite veins, in places making up to 30% of the vein. Chalcopyrite occurs sporadically throughout as trace amounts of disseminated grains with pyrite or as grains in calcite veins.

GEOCHEMISTRY

A soil geochemical survey was conducted over the Toba grid as a means of following up in more detail interesting results that had been obtained from reconnaissance soil lines put in during May and June of 1980.

A total of 29 samples were collected at 50 meter intervals from the north portion of lines 10W and 6W in August of 1980 and then a further 189 samples were collected at 100 meter intervals from the remainder of the grid during the spring of 1981. All samples collected were analyzed by Cominco's laboratory in Vancouver. The samples collected in 1980 were analyzed for Cu-Pb-Zn while the most recent samples were analyzed for Cu-Pb-Zn-Mo. Results are listed in Appendix "B" and samples locations and contoured results are shown on Plates 3 and 4.

All samples were collected from the "B" soil horizon whenever present. In cases where none was obtainable an analysis was made of the available material. All samples were air dried and then sieved through 80 mesh screens. Cu, Pb and Zn analysis were made using nitric acid(20% HNO_3) digestion followed by atomic absorption. Mo was determined by using a nitric acid(HNO_3) perchloric acid($HClO_4$) digestion followed by a colorimetric technique. Coefficients of variation are 10-15%.

The results of the soil geochem survey indicates the presence of two substantial copper soil anomalies and a number of small, scattered anomalies. The large copper anomaly that occurs primarily on Toba Three(Plate 3) measures approximately 1200 meters long by about 600 meters wide. This anomaly can be traced directly onto the Prime 2 mineral claim and based on the data filed in assessment report 2354, it would appear that it is the southern extension of the Primer South zone copper soil anomaly. Lack of outcrop in the area underlain by the anomaly hinders interpretation of the anomaly, although scattered outcrops of weakly altered, pyrite bearing diorite are nearby.

The second large copper soil anomaly is centered on line 2W and measures 800 meters by 500 meters. Again outcrop is minimal, however it would appear the underlying rocks are altered diorites containing minor amounts of pyrite. The remaining copper soil anomalies are fairly scattered and small and likely reflect minor copper occurrences in the underlying bedrock and glacial dispersion in the overburden.

The relatively low Mo values(Plate 3, Appendix B) are believed to reflect the presence of weakly alkalic, quartz poor rocks that underly the Toba claims and are known to be characteristically low in Mo.

In the SE corner of the Toba property coincident Pb and Zn soil anomalies occur(Plate 4). Unlike the copper soil anomalies which are partly associated with underlying diorites, the Pb-Zn anomalies occur in an area underlain by porphyritic andesite to basalt flows and bedded volcaniclastics. Although much more work is needed, it is possible the Pb and Zn are marking the peripheral edges of a hydrothermal system which is centered on the largely overburden covered diorite and porphyritic mafic syenite.

GEOPHYSICS

Ground Magnetic Survey

A ground magnetometer survey was conducted over 13.8 km of grid line with readings taken every 25 meters. The values are listed in Appendix "C" and station locations with contours of the results are shown on Plate 5.

The survey was conducted with a Scintrex MP-2 proton precession magnetometer that measures the earth's total magnetic field to the nearest gamma. Diurnal variation was checked for by establishing base stations where picket lines crossed the roads. Readings were taken about every 2 hours, however only minimal changes in values were observed and no corrections were made.

Background for the survey was taken to be 57000 gammas. Values relative to this were plotted on Plate 5 and contoured. The results of the survey indicate a number of scattered magnetic highs that in part correlate with underlying volcanic flows and volcaniclastics. Of greater interest however is the presence of a large magnetic low which is coincident with the Primer South zone copper soil anomaly extension and with possible underlying altered diorite. Similarily, relatively low or background values were obtained for the area covered by the copper soil anomaly centered on line 2W(Plate 3).

The apparent coincidence of magnetic lows with the copper soil anomalies may be the result of the underlying rocks having undergone alteration that is hydrothermal in origin.

V.L.F.

A V.L.F. survey was conducted over the Toba grid using a Geonics EM16 instrument. Readings were taken on all lines at 25 meter intervals using the Seattle Washington transmitting station NLK, and on selected lines using the Cutler Maine transmitter, NAA. Data is plotted in standard profile form on Plates 6(for station NLK) and Plate 7(for station NAA) and the NLK data in Frazer filtered form is on Plate 8.

The profiles are plotted so as to give right wave crossovers over V.L.F. conductive features. Such features are noted by a heavy dashed line(for station NLK). The positive value filtered results are contoured at 10% intervals.

In general, the line to line correlation of the V.L.F. features detected is not well defined. Fill in lines to a 100 meter line separation would give a more definitive interpretation.

CONCLUSIONS

Results of the preliminary work conducted on the property confirm the presence of altered and mineralizaed quartz deficient volcanic flows and intrusives. Soil geochemical surveys have outlined two significantly large copper anomalies that occur largely in areas of little outcrop but are believed to be underlain at least in part by the altered and mineralizaed intrusives. Results of the ground magnetic survey indicate the two copper soil anomalies are largely coincident with low magnetic values. This may reflect hydrothermal alteration. The V.L.F. survey results suggest possible east-west conductors however closer spaced grid lines are required before a reliable interpretation can be made.

RECOMMENDATIONS

1. Soil geochemical and ground magnetic surveys be conducted over the remainder of the property.

2. A V.L.F. and I.P. survey be conducted over selected portions of the property with emphasis put on those areas underlain by significant copper soil anomalies.

REFERENCES

Heim, R.C. and Knauer, J.D., 1972. Geochemical Survey on the Becki 1-27, 29, 31 and 33-40 Mineral Claims(Similkameen Mining Division, 92H/9W) B.C. Dept. of Mines and Petroleum Resources Assessment Report 4342.

Heim, R.C., Knauer, J.D. and Walker, J.T., 1972. Combined Geochemical and Geophysical Report on the Lorry 1-9, 11, 13, 15, 17-32; Sp 1-20 and Sp 1-7 Fractional Mineral Claims(Similkameen Mining Division, 92H/9W). B.C. Dept. of Mines and Petroleum Resources Assessment Report 4341.

Preto, V.A., 1979. Geology of the Nicola Group between Merritt and Princeton. B.C. Ministry of Energy, Mines and Petroleum Resources Bulletin 69, p.90.

Report by: D. Mehner
D.T. Mehner
Geologist I

Endorsed by:
F.L. Wynne
Senior Geologist

Approved for Release by:
for G. Harden, Manager
Western District, Exploration

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APPENDIX "A"

STATEMENT OF EXPENDITURE

FOR WORK ON THE TOBA MINERAL CLAIMS

SALARIES

Doug Pauls -	10 days @ $85/day May 21-26, June 5, 14-16	$ 850.
Dan Pauls -	12 days @ $85/day May 21-26, June 5,8,14-16,28	1,020.
Brian Cousens -	20 days @ $120/day May 30-31, June 1-3,8,12,14-18 23-28, July 1-3	2,400.
Mike Fawcett -	1 day @ $100/day August 4, 1980	100.
David Mehner -	6 days field @ $164/day August 4, 1980, May 30, June 15-17 24/81	984.
	3 days office, July 10,13,17/81 @ $140/day	420.

GEOCHEMISTRY

189 soil samples analyzed for Cu,Pb,Zn,Mo @ $5.20 ea	982.80
29 soil samples analyzed for Cu,Pb,Zn @ $3.55 ea	102.95

GEOPHYSICS

Magnetometer rental for 15 days @ $15/day	225.
EM 16 rental for 15 days @ $15/day	225.

TRANSPORTATION

1 truck plus gas @ $35/day for 20 days	700.
1 truck plus gas @ $45/day for 12 days	540.

DOMICILE

49 man days @ $28/man day	1,372.

MISCELLANEOUS

Map blow up, shipping, flagging, axes, phone etc.	300.
	$ 10,221.75

APPENDIX "B"

SOIL GEOCHEMICAL SURVEY RESULTS

TOBA PROPERTY (TULAMEEN)

REPORTING DATE 9 JUN 1981 · JOB U51 — 02915

SAMPLE NUMBER	FIELD NUMBER	TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S81 05006	BL- 10 W	S	88	4	47	<2
S81 05007	BL- 11 W	S	90	<4	43	<2
S81 05008	BL- 12 W	S	91	<4	40	<2
S81 05009	BL- 13 W	S	109	<4	42	2
S81 05010	BL- 14 W	S	156	<4	46	2
S81 05011	BL- 15 W	S	57	4	36	2
S81 05012	BL- 16 W	S	108	5	33	2
S81 05013	BL- 17 W	S	115	<4	32	2
S81 05014	BL- 18 W	S	196	<4	33	2
S81 05015	BL- 19 W	S	96	5	53	2
S81 05016	BL- 20 W	S	71	5	36	2
S81 05017	BL- 21 W	S	87	<4	37	2
S81 05018	BL- 22 W	S	70	5	49	2
S81 05019	BL- 23 W	S	52	4	43	<2
S81 05020	BL- 24 W	S	49	<4	36	<2
S81 05021	10W 1 S	S	64	<4	40	<2
S81 05022	10W 2 S	S	61	<4	39	2
S81 05023	10W 3 S	S	55	<4	32	<2
S81 05024	10W 4 S	S	34	4	38	<2
S81 05025	10W 5 S	S	54	4	38	2
S81 05026	10W 6 S	S	50	<4	51	2
S81 05027	10W 7 S	S	68	4	49	2
S81 05028	12W 1 N	S	76	4	42	2
S81 05029	12W 2 N	S	75	5	43	<2
S81 05030	12W 3 N	S	108	5	47	<2
S81 05031	12W 4 N	S	39	<4	45	<2
S81 05032	12W 5 N	S	45	<4	38	<2
S81 05033	12W 6 N	S	45	<4	39	<2
S81 05034	12W 7 N	S	43	<4	32	<2
S81 05035	12W 8 N	S	71	<4	25	<2
S81 05036	12W 1 S	S	47	<4	30	<2
S81 05037	12W 2 S	S	120	5	31	<2
S81 05038	12W 3 S	S	103	<4	32	<2

SAMPLE NUMBER	FIELD NUMBER	TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S81 05039	12W 4 S	S	68	4	36	2
S81 05040	12W 5 S	S	120	5	40	2
S81 05041	12W 6 S	S	47	<4	64	<2
S81 05042	12W 7 S	S	61	<4	47	<2
S81 05043	12W 8 S	S	57	4	41	<2
S81 05044	12W 9 S	S	59	<4	34	<2
S81 05045	12W 10 S	S	131	<4	30	<2
S81 05046	12W 11 S	S	62	<4	18	2
S81 05047	12W 12+50S	S	86	<4	40	2
S81 05048	16W 3 N	S	296	5	32	2
S81 05049	16W 2 N	S	195	<4	30	2
S81 05050	16W 1 N	S	195	<4	34	2
S81 05051	16W 1 S	S	57	<4	34	<2
S81 05052	16W 2 S	S	143	<4	33	<2
S81 05053	16W 3 S	S	203	4	29	<2
S81 05054	16W 4 S	S	165	<4	32	<2
S81 05055	16W 5 S	S	177	<4	41	<2
S81 05056	16W 6 S	S	152	<4	30	<2
S81 05057	16W 7 S	S	39	4	31	<2
S81 05058	16W 8 S	S	226	<4	47	<2
S81 05059	16W 9 S	S	90	<4	47	<2
S81 05060	16W 10 S	S	92	<4	48	<2
S81 05061	16W 11 S	S	75	<4	38	<2
S81 05062	16W 12 S	S	85	<4	42	2
S81 05063	16W 12+50S	S	70	<4	45	<2
S81 05064	18W 3 N	S	147	<4	29	<2
S81 05065	18W 2 N	S	198	<4	32	2
S81 05066	18W 1 N	S	190	<4	40	2
S81 05067	18W 1 S	S	185	<4	32	<2
S81 05068	18W 2 S	S	165	<4	29	2
S81 05069	18W 3 S	S	108	<4	30	<2
S81 05070	18W 4 S	S	165	<4	42	<2
S81 05071	18W 5 S	S	70	<4	28	<2
S81 05072	18W 6 S	S	63	<4	31	<2
S81 05073	18W 7 S	S	50	<4	39	<2
S81 05074	18W 8 S	S	57	<4	39	<2
S81 05075	18W 9 S	S	52	<4	36	2
S81 05076	18W 10 S	S	105	<4	35	2
S81 05077	18W 11 S	S	70	<4	35	<2
S81 05078	18W 12 S	S	92	<4	47	<2

TOBA PROPERTY (TULAMEEN)

REPORTING DATE 9 JUN 1981 JOB VS1 - 02915

SAMPLE NUMBER	FIELD NUMBER	TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S81 05079	18W 12+50S	S	75	<4	42	<2
S81 05080	20W 1 N	S	72	<4	29	<2
S81 05081	20W 2 N	S	147	<4	28	2
S81 05082	20W 3 N	S	90	<4	25	<2
S81 05083	20W 1 S	S	188	<4	29	<2
S81 05084	20W 2 S	S	117	<4	38	<2
S81 05085	20W 3 S	S	62	<4	35	<2
S81 05086	20W 4 S	S	76	<4	44	2
S81 05087	20W 5 S	S	52	<4	48	<2
S81 05088	20W 7 S	S	103	<4	52	2
S81 05089	20W 8 S	S	45	<4	52	<2
S81 05090	20W 9 S	S	57	<4	51	<2
S81 05091	20W 10 S	S	46	<4	53	<2
S81 05092	20W 11 S	S	36	<4	53	<2
S81 05093	20W 12 S	S	36	<4	53	<2
S81 05094	20W 12+50S	S	47	<4	52	<2
S81 05095	24W 3 N	S	67	<4	39	<2
S81 05096	24W 2 N	S	54	<4	36	<2
S81 05097	24W 1 N	S	72	<4	42	<2
S81 05098	24W 1 N	S	44	<4	42	<2
S81 05099	24W 2 N	S	40	<4	39	<2
S81 05100	24W 3 N	S	45	<4	38	<2
S81 05101	24W 4 N	S	40	<4	38	<2
S81 05102	24W 5 N	S	51	<4	51	<2
S81 05103	24W 6 N	S	41	<4	43	<2
S81 05104	24W 7 N	S	45	<4	46	<2
S81 05105	24W 8 N	S	50	<4	40	<2
S81 05106	24W 9 N	S	105	4	48	<2
S81 05107	24W 10 N	S	41	<4	64	<2
S81 05108	24W 11 N	S	35	<4	44	<2

TOBA PROPERTY (TULAMEEN)
JOB V81 - 03295

REPORTING DATE 17 JUN 1981

SAMPLE NUMBER	FIELD NUMBER		TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S81 06869	BL 0	W	S	100	8	115	<2
S81 06870	BL 1	W	S	70	6	95	<2
S81 06871	BL 2	W	S	159	<4	75	<2
S81 06872	BL 3	W	S	194	<4	41	<2
S81 06873	BL 4	W	S	184	<4	40	<2
S81 06874	BL 4+56	W	S	61	<4	19	<2
S81 06875	BL 6	W	S	56	<4	31	<2
S81 06876	BL 7	W	S	93	<4	35	<2
S81 06877	BL 8	W	S	36	<4	38	<2
S81 06878	BL 9	W	S	59	<4	49	<2
S81 06879	BL 1	E	S	180	<4	70	<2
S81 06880	BL 2	E	S	56	<4	79	<2
S81 06881	BL 3	E	S	52	6	77	<2
S81 06882	BL 4	E	S	61	<4	65	<2
S81 06883	BL 5	E	S	55	7	107	<2
S81 06884	5E 1	N	S	101	224	461	<2
S81 06885	5E 2	N	S	31	<4	44	<2

[illegible]

REPORTING DATE 21 [illegible] 1981

SAMPLE NUMBER	FIELD NUMBER		TYPE	Cu ppm	Pb ppm	Zn ppm	[illegible] ppm
[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	27	[illegible]
881 09?27	6A 2	S	S	35	<4	40	<2
881 09136	[illegible]	[illegible]	S	57	<4	77	<2
881 09?31	6A 4	[illegible]	[illegible]	23	<4	52	<2
881 09032	6A 5	[illegible]	[illegible]	27	<4	40	<2
881 09?33	6A 6	S	S	120	<4	[illegible]	<2
881 09?34	6A 7	S	S	106	[illegible]	[illegible]	<2
881 09035	1E 1	S	S	60	<4	84	<2
881 09036	1E 2	[illegible]	S	107	7	137	<2
881 09037	1E 3	S	S	96	5	96	<2
881 09038	1E 4	[illegible]	[illegible]	71	[illegible]	[illegible]	<2
881 09039	1E 5	[illegible]	[illegible]	17	[illegible]	[illegible]	<2
881 09?4?	1E	[illegible] ON	[illegible]	[illegible]	<4	[illegible]	<2
881 09?41	1E 1	[illegible]	[illegible]	97	<4	51	<2
881 09?42	1E 2	[illegible]	S	210	[illegible]	71	<2
881 09?43	1E 3	[illegible]	[illegible]	247	<4	52	<2
881 09?4?	[illegible] 4	N	S	160	7	58	<2
881 09045	1E 5	R	[illegible]	171	<4	[illegible]	<2
881 09?4?	1E 6	[illegible]	[illegible]	[illegible]	<4	[illegible]	<2
881 09?47	3E 1	[illegible]	[illegible]	59	7	77	<2
881 09048	3E 2	S	S	47	<4	77	<2
881 09?49	3E 3	S	S	107	5	101	<2
881 09050	3E 4	S	S	82	<4	205	<2
881 09051	3E 5	S	S	39	12	118	<2
881 09052	3E 6	[illegible]	S	66	<4	78	<2
881 09?53	3E 7	S	S	116	<4	70	<2
881 09054	3E 1	N	S	59	<4	54	<2
881 09055	3E 2	N	S	70	<4	62	<2
881 09056	3E 3	R	S	70	<4	32	<2
881 09057	3E [illegible]	N	S	15	<4	17	<2
881 09058	9E 1	N	S	26	<4	155	<2
881 09059	9E 1	S	S	51	10	211	<2
881 09060	9E 2	S	S	210	17	1670	<2
881 09061	9E 3	S	S	35	9	210	<2
881 09062	9E 4	S	S	22	6	152	<2
881 09063	9E 5	S	S	115	10	113	<2
881 09064	9E 6	S	S	94	11	[illegible]	<2
881 09065	9E	650S	S	35	9	121	<2
881 09066	[illegible] 1	[illegible]	S	62	17	[illegible]	<2
881 09067	[illegible] 2	S	S	46	12	104	<2

REPORTING DATE 25 JUN 1981 JOB V81 - [illegible]

SAMPLE NUMBER	FIELD NUMBER	TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
S81 [illegible]	5E 4	S	124	[illegible]	104	<2
[illegible]	5E 5	S	74	<4	[illegible]	<2
S81 09071	5E 6	S	[illegible]	<4	[illegible]	<2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
S81 [illegible]	7E 1	S	41	[illegible]	[illegible]	<2
[illegible]	7E 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
S81 09075	7E 3	S	[illegible]	<4	94	<2
[illegible]	[illegible]	S	[illegible]	[illegible]	107	[illegible]
S81 09077	7E [illegible]	S	[illegible]	[illegible]	96	<2
[illegible]	7E [illegible]	S	[illegible]	[illegible]	93	<2
S81 09079	7E [illegible]	S	110	<4	[illegible]	<2
[illegible]	[illegible] 1 N	S	[illegible]	[illegible]	[illegible]	[illegible]
S81 [illegible]	7E 2 N	S	59	[illegible]	103	<2
[illegible]	7E 3 N	S	57	[illegible]	[illegible]	[illegible]
S81 [illegible]	7E 4 N	S	[illegible]	[illegible]	52	[illegible]
[illegible]	[illegible]	S	[illegible]	[illegible]	[illegible]	[illegible]
S81 [illegible]	[illegible]	S	125	[illegible]	397	[illegible]
[illegible]	[illegible] E	S	[illegible]	[illegible]	[illegible]	[illegible]
S81 [illegible]	8E [illegible] E	S	[illegible]	[illegible]	289	[illegible]
[illegible]	[illegible]	S	[illegible]	[illegible]	[illegible]	[illegible]

REPORTING DATE 22 JUL 1981 JOB V81 - 05105

SAMPLE NUMBER	FIELD NUMBER	TYPE	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S81 14814	T 22W 3N	S	72	5	30	<2
S81 14815	T 22W 2N	S	146	<4	31	2
S81 14816	T 22W 1N	S	67	5	38	2
S81 14817	T 22W 1S	S	37	5	35	2
S81 14818	T 22W 2S	S	57	6	53	<2
S81 14819	T 22W 3S	S	39	<4	32	<2
S81 14820	T 22W 4S	S	50	5	38	<2
S81 14821	T 22W 5S	S	40	<4	42	<2

ANALYTICAL METHODS

Cu Pb Zn Ag 20% HNO_3 DIGESTION / AA

Au AQUA REGIA DIGESTION / SOLVENT EXTRACTION / AA

Mo HNO_3 - $HClO_4$ DIGESTION / COLORIMETRIC

APPENDIX "C"

GROUND MAGNETOMETER SURVEY RESULTS (In Gammas)

Values listed were obtained by subtracting background (57000 Gammas) from the original result.

Line 24W

300N	426	775	-95
275	382	800	1030
250	475	825	827
225	580	850	175
200	786	875	540
175	644	900	-54
150	303	930	269
125	662	950	-633
100	682	975	-802
75	862	1000	-384
50	508	1025	-148
25	144	1050	-446
BL 00	113	1075	-463
25S	61	1100	-252
50	38	1125	-175
75	72	1150	320
100	598	1175	-7
125	598	1200	-220
150	272		
175	83		
200	66		
225	668		
250	310		
275	721		
300	1565		
325	1216		
350	327		
375	768		
400	805		
425	793		
450	990		
475	1403		
500	456		
525	586		
550	-111		
575	140		
600	460		
648	390		
675	-28		
700	390		
725	1362		
750	1028		

Line 20W

300N	85	750	84
275	129	775	322
250	174	800	300
225	90	825	560
200	22	850	-65
175	-90	875	600
150	27	900	422
125	-55	925	566
100	-68	950	604
75	-32	975	137
50	112	1000	38
25	70	1025	-192
BL 00	-42	1050	-262
25S	-69	1075	-206
50	2	1100	876
75	-62	1125	-208
100	-12	1150	-174
125	-297	1175	-126
150	-312	1200	-172
175	-274	1225	-220
200	-313	1250	-182
225	-290		
250	-281		
275	-292		
300	-180		
325	-135		
350	112		
375	224		
400	158		
425	353		
450	-124		
475	-364		
500	-244		
525	14		
550	218		
575	399		
600	147		
625	-109		
650	6		
675	312		
700	755		
725	66		

Line 18W

300N	158
275	40
250	337
230	332
200	93
175	-84
150	5
125	6
100	231
75	122
50	268
25	190
BL 00	110
25S	466
50	242
75	-22
100	106
125	200
150	374
175	673
200	501
225	590
250	699
275	670
300	469
325	280
350	670
370	42
400	29
425	324
450	256
475	193
500	104
525	-14
550	50
575	774
600	542
625	216
650	88
690	136
700	156
725	204
750	215
770	190
800	56
825	109
850	1
875	103
900	14
925	32
950	- 6
975	-88
1000	-138
1025	-100
1050	-146
1075	-105
1100	- 99
1125	- 75
1150	-162
1175	- 12
1200	- 87
1225	-207
1250	-236

Line 16W

300N	182
275	381
250	330
225	250
200	229
180	388
150	-90
125	- 8
100	64
65	22
45	90
25	118
BL 00	116
25S	30
50	6
75	4
100	-28
125	-28
150	58
175	-14
200	64
230	78
250	46
275	-45
300	-33
325	119
350	-228
375	-91
400	-210
425	-178
450	-194
500	-56
525	-126
550	-78
575	-54
600	-98
625	-34
650	16
675	-70
700	-58
715	-116
750	-98
775	-162
800	-200
830	-358
850	-268
875	- 1
900	-25
930	91
955	262
975	250
1000	282
1025	205
1050	837
1075	454
1100	472
1130	554
1155	702
1175	912
1200	958
1225	960
1250	710

Line 12W

800N	310
775	444
750	270
730	297
724	642
700	760
675	444
650	992
625	463
600	467
575	450
550	389
525	134
500	840
475	231
450	159
425	260
400	332
375	190
350	235
325	232
300	160
275	199
250	314
225	334
200	176
175	592
150	536
125	420
100	256
75	170
50	122
25	463
BL 00	528
25S	526
50	22
75	84
100	351
125	-66
150	38
175	80
200	-136
225	-208
250	-325
275	-355
300	-389
325	-576
350	-838
375	-1096
400	-933
425	-2393
475	12849
490	6290
500	9947
525	3295
545	1443
570	602
600	428
625	230
650	93
675	128
700	225
725	214
750	350
775	354
800	205
825	244
850	252
875	292
900	449
925	484
950	313
975	226
1000	88
1025	182
1050	91

12W cont.

1080	74
1100	134
1125	196
1150	60
1170	0
1200	-18
1225	142
1250	50
1275	

Line 10W

850N	164
825	272
800	135
775	220
750	156
725	220
700	333
675	564
650	532
625	287
600	239
575	294
550	466
525	293
500	402
475	239
450	225
425	256
400	256
375	86
350	- 2
325	683
300	366
275	355
250	40
225	18
200	763
175	223
150	237
125	430
100	103
75	52
50	114
25	26
BL 00	118
25S	386
50	493
75	426
100	223
125	158
150	266
175	258
200	616
225	978
250	1527
275	808
300	656
320	599
350	1045
375	718
400	326
425	396
450	557
475	-148
500	760
525	1402
550	1410
575	794
600	1461
640	1439
660	433
675	304
700	546

Line 6W

850N	440
825	622
800	471
775	522
750	408
725	388
700	432
675	380
650	369
625	173
600	208
575	324
550	496
525	358
500	150
475	360
450	402
425	371
400	356
375	268
350	328
325	226
300	248
275	214
250	171
225	334
200	242
175	152
150	194
125	148
100	82
75	139
50	28
25	260
BL564W	200

6W-BL	185
25S	30
50	232
75	630
100	474
125	643
150	652
175	496
200	431
225	407
250	381
275	376
300	518
325	302
350	266
375	48
400	-90
425	-13
450	34
500	300
525	500
550	890
575	728
600	1221
625	1148
650	334
675	918
700	458

Line 2W

850N	212
825	284
800	478
775	177
750	94
725	36
700	344
675	67
650	287
625	152
600	44
575	98
550	162
525	212
500	150
475	11
450	132
425	-26
400	343
375	150
350	15
325	212
300	593
275	330
250	336
225	556
200	465
175	704
150	275
125	137
100/BL	22
25S	578
50	270
75	402
100	781
125	578
150	350
175	666
200	568
225	598
250	608
275	408
300	640
325	420
350	209
375	662
400	245
425	364
450	330
475	614
500	239
525	560
550	472
575	630
600	648
630	302

Line 1E

625N	
600	
575	
550	
525	251
500	-58
475	-22
450	104
425	341
400	68
375	26
350	306
325	595
300	344
275	602
250	385
225	294
200	302
175	165
150	6
125	82
100	30
75	368
50	492
25	350
BL 00	242
25S	255
50	-162
75	19
100	- 4
125	27
150	22
175	80
200	-26
225	-23
250	-116
275	38
300	98
325	164
350	210
375	344
400	307
425	412
450	396
475	566
500	462

NOTE: Data was collected with a Scintrex MP-2 proton precession magnetometer that measures the earth's total magnetic field.

APPENDIX "D"

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, DAVID T. MEHNER, OF THE CITY OF VERNON BRITISH COLUMBIA, HEREBY CERTIFY:

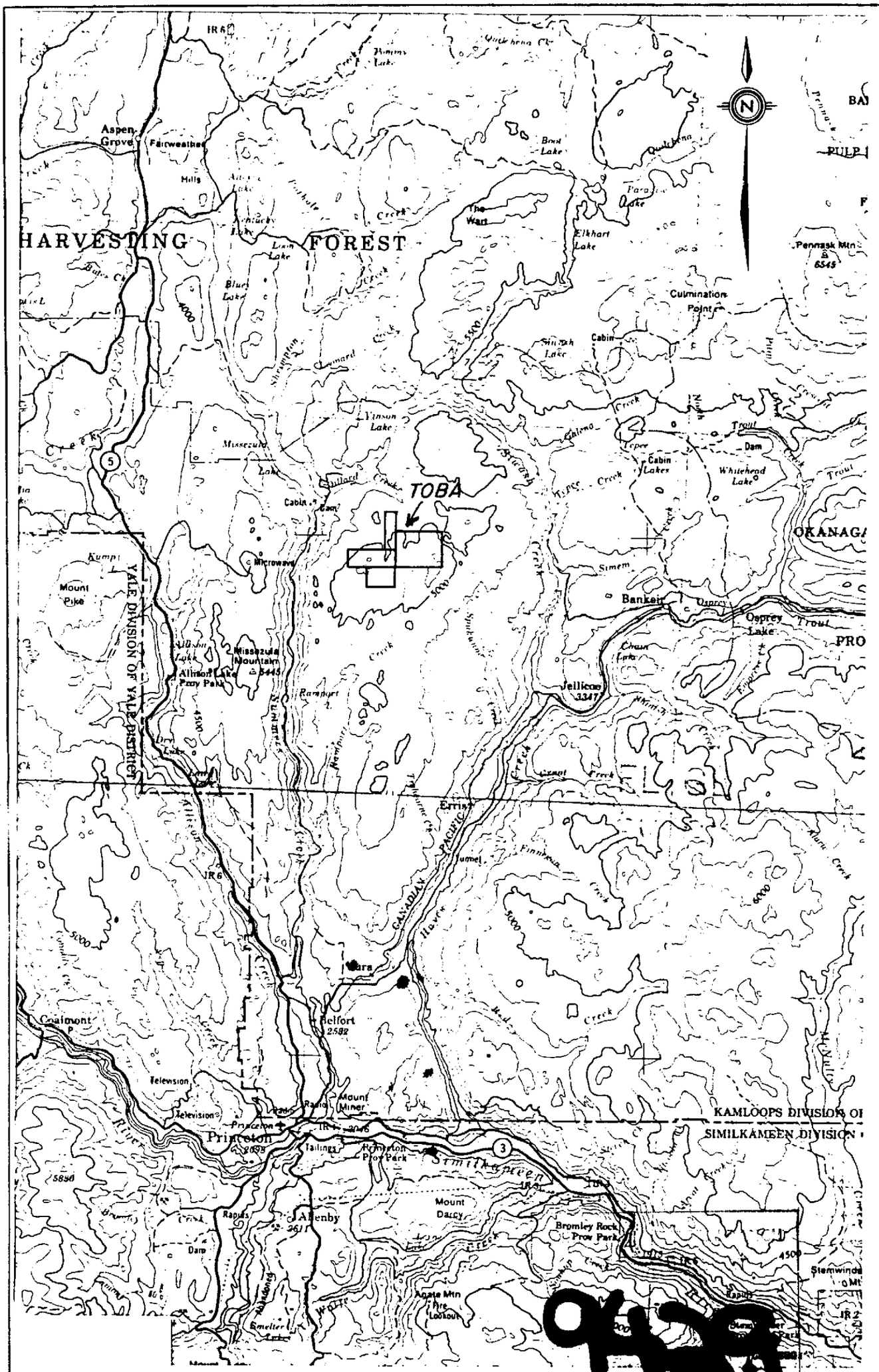
1. That I am a Geologist residing at 1715-41St Ave., Vernon, British Columbia. With a Business Address at 4405-28th Street, Vernon, British Columbia.

2. That I graduated with a B.Sc. Hon. Degree in Geology from the University of Manitoba in 1976.

3. That I have practised geology with Cominco Ltd. from October 1979 to present and as such have a personal knowledge of the facts which I hereinafter depose.

DATED THIS 10th DAY OF AUGUST, 1981 AT VERNON, BRITISH COLUMBIA.

SIGNED D. Mehner
David T. Mehner



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

TOBA PROPERTY LOCATION MAP

Scale: 1:250,000 | Date: Aug. 18, 1981 | Plate: 1

NCI - 112A - CL

210-0610

PRIME

PRIME 2

HG 1

HG 3

DILLARD CREEK

5000

4500

5500

SUN 9

SUN 10

SUN 8

SUN 7

SUN 4

SUN 14

SUN 6

SUN 2

SUN 5

SUN 3

SUN 1

I.P. BILL

H+B 3

F.P. BUD

I.P. BUD

I.P. MERCURY 3

12W

10W

8W

6W

2W

1E

3E

5E

7E

9E

24W

22W

20W

18W

16W

BASE LINE

I.P ORE 21,22

I.P JAY 5,6

F.P. JAY 3,4

TOBA SIX

TOBA THREE

TOBA FOUR

TOBA

MERCURY 1

I.P JACK 15,16

F.P. JACK 13,14

ASSESSMENT REPORT

9429

LEGEND

- Grid line - flagged and blazed
- Grid line - flagged only
- Contour lines
- Claim Posts
  - I.P. - Initial Post
  - F.P. - Final Post
  - L.C.P. - Legal Corner Post
- Gravel Road
- Creek, Stream
- Gravel Pit
- 5000 Elevation contours in ft. above sea level

Scale 0 100 200 Metres

TOBA PROPERTY

92H 9/16

Drawn by: DTM	Traced by: NFC.
Revised by / Date	Revised by / Date

VLF Fraser Filter (NLK)

Scale: 1:5000 Date: FEB. 17, 1981 Plate: 8

PRIME

PRIME 2

HG 1

HG 3

DILLARD CREEK

5000

4500

5500

SUN 1
SUN 2
SUN 3
SUN 4
SUN 5
SUN 6
SUN 7
SUN 8
SUN 9
SUN 10
SUN 14

12W 10W 8W 6W 4W 2W 1E 3E 5E 7E 9E

8N 6N 4N 2N 1N BASE LINE 2S 4S 6S 8S 10S 12S

TOBA SIX

TOBA THREE

TOBA FOUR

TOBA MERCURY 1

I.P. BILL

H+B 3

F.P. BUD

I.P. BUD

I.P. MERCURY 3

24W 22W 20W 18W 16W

I.P. ORE 21,22

I.P. JAY 5,6
F.P. JAY 3,4

I.P. JACK 15,16
F.P. JACK 13,14

Scale
0 100 200
Metres

9429

LEGEND

- Grid Lines - flagged and blazed
- Grid Lines - flagged only
- Tilt angle (in phase)
- Quadrature (out of phase)
- Direction line was surveyed.
- VLF Station - Cutler, Maine (NAA)
- Facing Direction - Northerly on all lines
- Lines without data displayed were not surveyed.
- Claim Posts
  - I.P. - Initial Post
  - F.P. - Final Post
  - L.C.P. - Legal Corner Post
- Gravel Road
- Creek, Stream
- Gravel Pit
- 5000 Elevation contours in ft. above sea level

Facing Direction
Cutler, Me.

Conductor Crossover
+10E
-10E

D. Mehner

TOBA PROPERTY

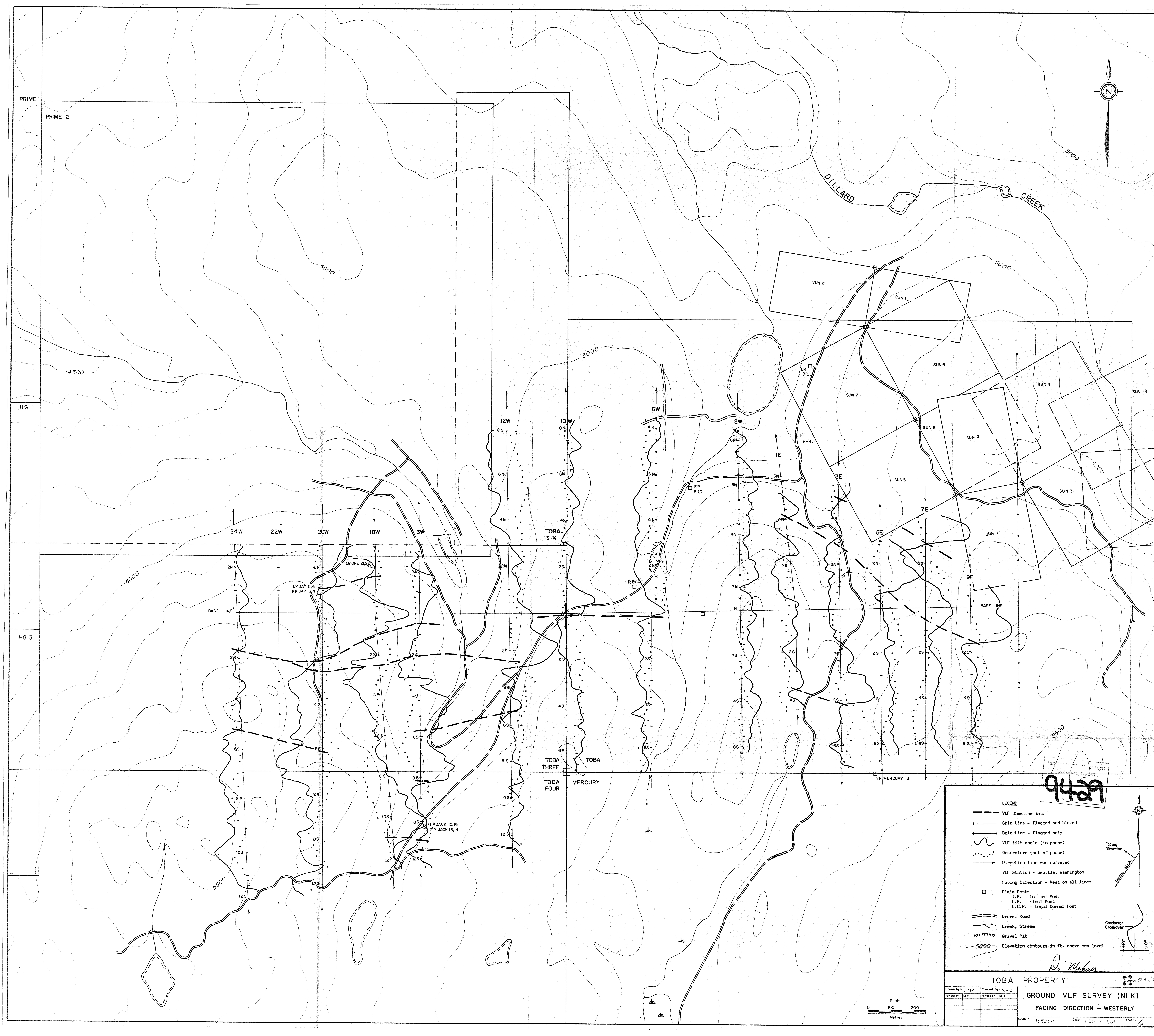
COMINCO 32 H 9/16

Drawn by: DTM	Traced by: NEC
Revised by	Date
Revised by	Date

GROUND VLF SURVEY (NAA)

FACING DIRECTION = NORTHERLY

Scale: 1:5000 Date: FEB 17, 1981 Plate: 2


PRIME
PRIME 2
HG 1
HG 3
DILLARD CREEK
SUN 1
SUN 2
SUN 3
SUN 4
SUN 5
SUN 6
SUN 7
SUN 8
SUN 9
SUN 10
SUN 14
TOBA SIX
TOBA THREE
TOBA
TOBA FOUR
MERCURY 1
I.P. BILL
H+B 3
F.P. BUD
I.P. BUD
I.P. ORE 21,22
I.P. JAY 5,6
F.P. JAY 3,4
I.P. JACK 15,16
F.P. JACK 13,14
I.P. MERCURY 3
BASE LINE
24W
22W
20W
18W
16W
12W
10W
6W
2W
1E
3E
5E
7E
9E
4500
5000
5500
9429
LEGEND
VLF Conductor axis
Grid Line - flagged and blazed
Grid Line - flagged only
VLF tilt angle (in phase)
Quadrature (out of phase)
Direction line was surveyed
VLF Station - Seattle, Washington
Facing Direction - West on all lines
Claim Posts
I.P. - Initial Post
F.P. - Final Post
L.C.P. - Legal Corner Post
Gravel Road
Creek, Stream
Gravel Pit
Elevation contours in ft. above sea level
Facing Direction
Seattle, Wash.
Conductor Crossover
+10°
-10°
Scale
0
100
200
Metres
TOBA PROPERTY
COMINCO 92H9/16
Drawn by = DTM
Traced by = NFC
Revised by
Date
GROUND VLF SURVEY (NLK)
FACING DIRECTION — WESTERLY
Scale = 1:5000
Date = FEB.17, 1981
Plate = 6

PRIME

PRIME 2

HG 1

HG 3

DILLARD CREEK

5000

4500

5500

SUN 1 SUN 2 SUN 3 SUN 4 SUN 5 SUN 6 SUN 7 SUN 8 SUN 9 SUN 10 SUN 14

I.P. BILL

H+B 3

F.P. BUD

I.P. BUD

I.P. ORE 21,22

I.P JAY 36
FP JAY 34

I.P JACK 15,16
FP JACK 13,14

I.P. MERCURY 3

TOBA SIX

TOBA THREE

TOBA FOUR

MERCURY 1

BASE LINE

12W 10W 6W 2W 1E 3E 5E 7E 9E

24W 22W 20W 18W 16W

8N 6N 4N 2N IN 2S 4S 6S 8S 10S 12S

9429

LEGEND

- Blazed and Flagged Grid Line
- Recce. Grid Line - flagging only
- 500 Contours in gammas above background(57000 in area of survey)
- Claim Posts
  - I.P. - Inital Post
  - F.P. - Final Post
  - L.C.P. - Legal Corner Post
- Gravel Road
- Creek, Stream
- Gravel Pit
- 5000 Elevation contours in ft. above sea level

D. Mehes

TOBA PROPERTY

Claim(s) 92H9/16

Drawn by: DTM	Traced by: NFC
Revised by / Date	Revised by / Date

GROUND MAGNETIC SURVEY

Scale: 1:5000 | Date: FEB. 17, 1981 | Plate: 5

Scale 0 100 200 Metres

PRIME

PRIME 2

HG 1

HG 3

DILLARD CREEK

5000

4500

5500

BASE LINE

TOBA SIX

TOBA THREE

TOBA FOUR

MERCURY 1

TOBA

I.P. BILL

F.P. BUD

I.P. BUD

I.P. MERCURY 3

I.P. JACK 15, 16
F.P. JACK 13, 14

I.P. ORE 21, 22

I.P. JAY 5, 6
F.P. JAY 3, 4

SUN 1
SUN 2
SUN 3
SUN 4
SUN 5
SUN 6
SUN 7
SUN 8
SUN 9
SUN 10
SUN 14

24W 22W 20W 18W 16W 12W 10W 6W 2W 1E 3E 5E 7E 9E

MFO-1 4/59
MFO-2 4/27
MFO-3
MFO-13 4/140
MFO-14 5/30
MFO-15 8/141
MFO-16 5/32
MFO-17 4/31
MFO-18 <4/32
MFO-19 <4/33
MFO-20 15/<4
MFO-21 25/47
MFO-22 35/101
MFO-23 6/70
MFO-25 11/73
MFO-26 13/172
MFO-27 12/140
MFO-28 12/191
MFO-29 16/190
MFO-30 35/59
MFO-31 <4/48
MFO-32 <4/95
MFO-33 <4/27
MFO-34 <4/28
MFO-35 <4/45
MFO-36 <4/48
MFO-37 <4/26
MFO-38 <4/33
MFO-39 <4/18
MFO-40 <4/56
MFO-41 <4/75
MFO-42 14/126
MFO-43 5/72
MFO-44 <4/98
MFO-45 5/100
MFO-46 <4/58
MFO-47 <4/81
MFO-48 4/101
MFO-49 <4/39
MFO-50 <4/31
MFO-51 <4/30
MFO-52 <4/28
MFO-53 <4/30
MFO-54 <4/24
MFO-55 <4/29
MFO-56 <4/24

9429

LEGEND

- Blazed & Flagged Grid Line with Pb/Zn Soil Geochem vlaues in ppm
- MFO-42 14/126 — MFO-43 5/72: Recce. Grid Line, Flagging only, with sample number and Pb/Zn content of soil in ppm. (collected May-June, 1980)
- MFO-53 <4/30: Recce. Soil Sample number and Pb/Zn content of soil sample in ppm. (collected May-June, 1980)
- 200 100: contours showing Zn content of soil in ppm
- area containing 10 ppm Pb.
- claim posts — I.P. - initial post; F.P. - final post; L.C.P. - legal corner post
- gravel road
- creek, stream
- gravel pit
- 5000: elevation contours in feet above sea level

Scale
0 100 200
Metres

TOBA PROPERTY

COMINCO 92H9/16

Pb/Zn. SOIL GEOCHEMISTRY MAP

Drawn by: PTM	Traced by: NFC		
Revised by	Date	Revised by	Date

Scale: 1:5000 | Date: July 7, 1981 | Plate: 4

PRIME

PRIME 2

HG 1

HG 3

DILLARD CREEK

5000

4500

5500

SUN 9

SUN 10

SUN 8

SUN 7

SUN 6

SUN 5

SUN 4

SUN 3

SUN 2

SUN 14

I.P. BILL

H+B 3

F.P. BUD

I.P. BUD

I.P. ORE 21,22

I.P. JAY 5,6

F.P. JAY 3,4

I.P. JACK 15,16

F.P. JACK 13,14

TOBA SIX

TOBA THREE

TOBA FOUR

TOBA

MERCURY 1

MERCURY 3

BASE LINE

12W 10W 8W 6W 4W 2W 0 1E 3E 5E 7E 9E

24W 22W 20W 18W 16W

8N 6N 4N 2N 0 2S 4S 6S 8S 10S 12S

MFO-1 MFO-13 MFO-14 MFO-15 MFO-16 MFO-17 MFO-18 MFO-19 MFO-20 MFO-21 MFO-22 MFO-23 MFO-25 MFO-26 MFO-27 MFO-28 MFO-29 MFO-30 MFO-31 MFO-32 MFO-33 MFO-34 MFO-35 MFO-36 MFO-37 MFO-38 MFO-39 MFO-40 MFO-41 MFO-42 MFO-43 MFO-44 MFO-45 MFO-46 MFO-47 MFO-48 MFO-49 MFO-50 MFO-51 MFO-52 MFO-53 MFO-54 MFO-55 MFO-56

9429

LEGEND

- 39/k2 55/k2 — Blazed & Flagged Grid Line with Cu/Mo soil geochem values in ppm
- MFO-26 27/ MFO-27 50/ — Recce. Grid Line, flagging only, with sample number & copper content of soil in ppm
- MFO-55• 77/ — Recce. Soil sample number and copper content of soil sample in ppm
- 160 80 — Contours of copper content of soil in ppm
- Claim Posts
  - IP - initial post
  - FP - final post
  - LCP - legal corner post
- Gravel Road
- Creek, Stream
- Gravel Pit
- 5000 — Elevation contours in feet above Sea level

Scale 0 100 200 Metres

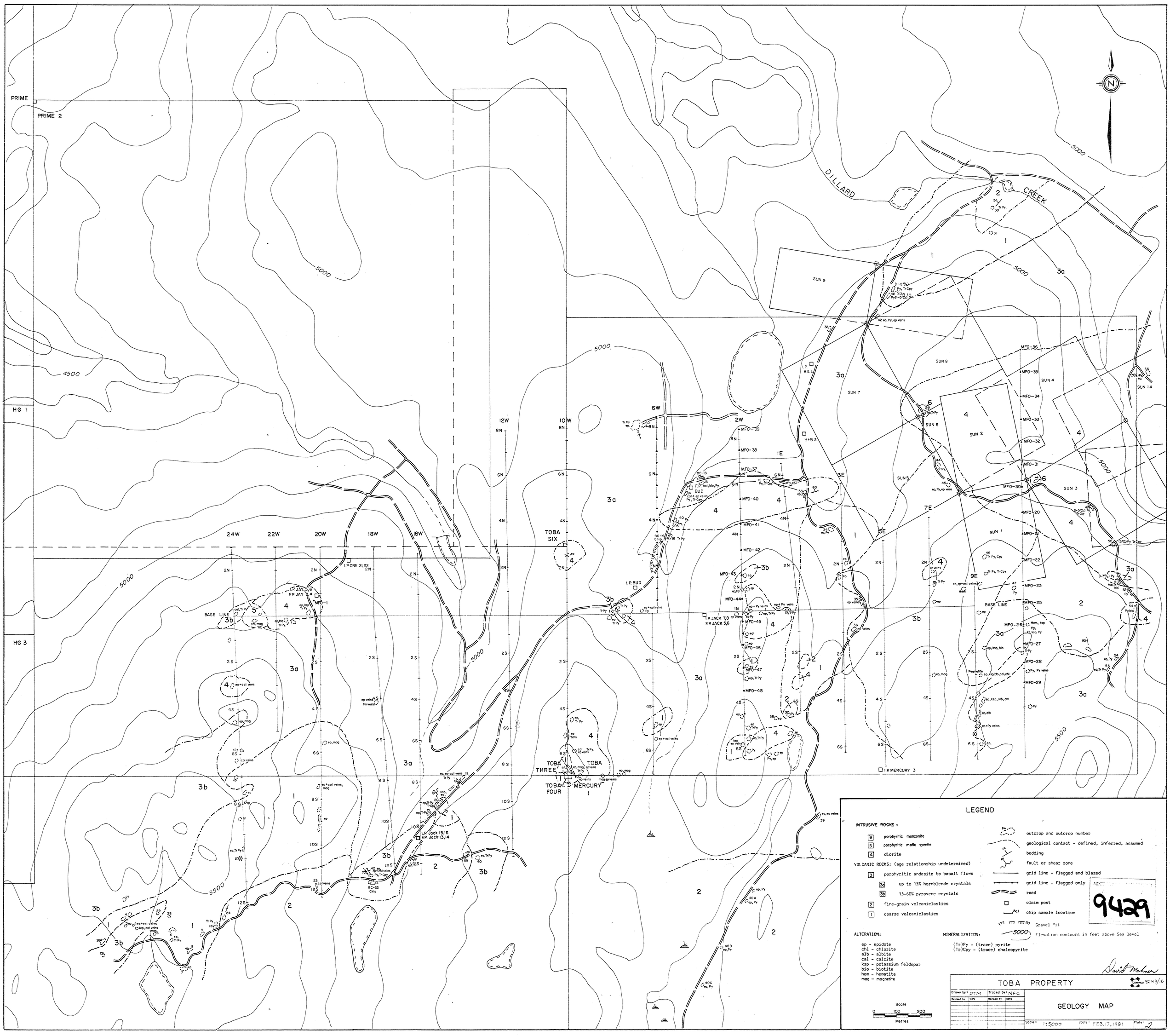
TOBA PROPERTY

Cu. - Mo. Soil Geochemistry map

Drawn by: DTM	Traced by: NFC		
Revised by	Date	Revised by	Date

Scale: 1:5000 Date: FEB. 17, 1981 Plate: 3

Denison 92 H 9/16



LEGEND

INTRUSIVE ROCKS :

- 6 porphyritic monzonite
- 5 porphyritic mafic syenite
- 4 diorite

VOLCANIC ROCKS: (age relationship undetermined)

- 3 porphyritic andesite to basalt flows
  - 3a up to 15% hornblende crystals
  - 3b 15-60% pyroxene crystals
- 2 fine-grain volcaniclastics
- 1 coarse volcaniclastics

- outcrop and outcrop number
- geological contact - defined, inferred, assumed
- bedding
- fault or shear zone
- grid line - flagged and blazed
- grid line - flagged only
- road
- claim post
- chip sample location
- Gravel Pit
- 5000 Elevation contours in feet above Sea level

ALTERATION:

ep - epidote
chl - chlorite
alb - albite
cal - calcite
ksp - potassium feldspar
bio - biotite
hem - hematite
mag - magnetite

MINERALIZATION:

(Tr)Py - (trace) pyrite
(Tr)Cpy - (trace) chalcopyrite

Scale
0 100 200
Metres

9429

David Mahnen

TOBA PROPERTY

Cominco 92 H 9/16

GEOLOGY MAP

Drawn by: DTM	Traced by: NFC.		
Revised by	Date	Revised by	Date

Scale: 1:5000 Date: FEB. 17, 1981 Plate: 2