

LOG NO:	APR 23 1993 RD.
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ASSESSMENT REPORT

GEOCHEMICAL REPORT

MINERAL HILL PROPERTY

NTS 93 L 10 E

Omineca mining division  
British Columbia

Latitude : 54 31' North  
Longitude  
Longitude : 126 44' west

By

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Smithers B.C.  
VOJ 2NO

April 15, 1992

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,862**

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**Introduction**

The Mineral Hill property of L.B. Warren & P.J. Huber (50% each) is located close to Highway 16 between Houston and Smithers in the Omineca Mining Division. The property consists of 20 claim units and has a long history of exploration beginning prior to 1914. Exploration in the 1960's and 1970's was directed at porphyry-style molybdenum and copper mineralization. More recently, the principal target has shifted to vein or breccia-hosted precious metal mineralization.

**LOCATION AND ACCESS**

The Mineral Hill property is located approximately 14 kilometers north of Houston in north-central British Columbia, and 1 kilometre east of Highway 16 between Houston and Smithers. Geographic coordinates are 54 31' North latitude and 126 44' West Longitude. Access to the area of the Geochem grid layedout in 1991 is via Highway 16 from Smithers (45 km) or from Houston (20km). Smithers has daily jet service to Vancouver and is the regional centre for supplies, services and provicial government offices (Mine recorder, district geologist & mine inspector). From Highway 16, a gravel road leads through property owned by G. Murphy to the Mineral Hill claims via the north end of Fishpan Lake (Figure 2). Within the property a network of roads and trails extends to all zones explored over the past 30 years; many of these trails are only accessible with four wheel drive vehicles.

The northern CN Rail line follows the Bulkley River a few kilometres west of the property; a B.C. Hydro transmission line and a natural gas pipe line parallel the highway.

**Property**

The Mineral Hill property consists of five Modified Grid mineral claims (a total of 54 units) and four 2-post mineral claims shown on the claim sheet 93 L 10 E in the Omineca Mining Division (Figure 2). These claims are owned jointly by L.B. Warren and P.J. Huber.

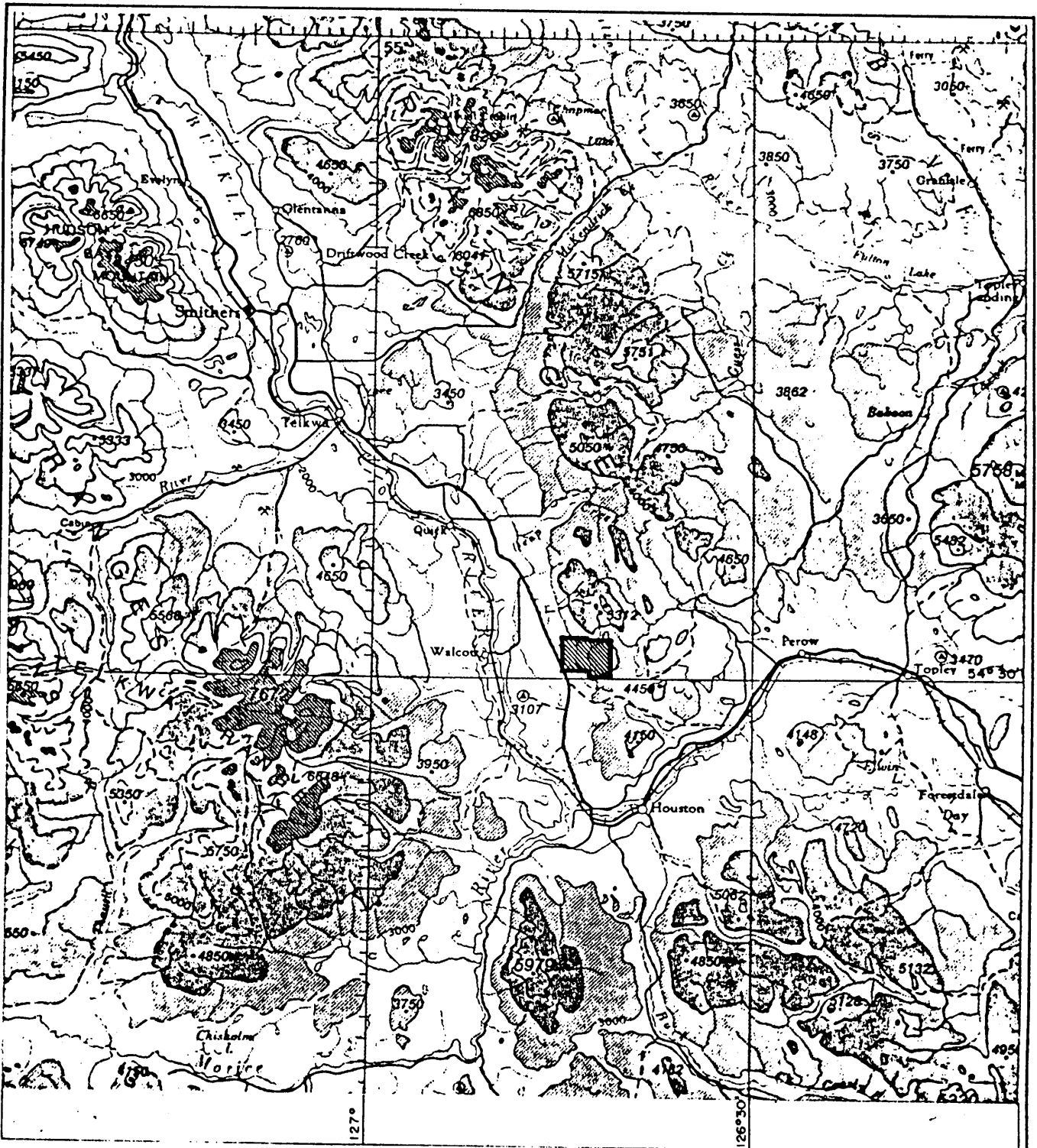
<u>Claim Name</u>	<u>Units</u>	<u>Record Number</u>
Mineral Hill	16	206
Mineral Hill A	2	397
Mineral Hill B	2	398

The Geochem Grid is located on the Mineral Hill Claim.



Figure 1. Location of the Mineral Hill Claim Group  
NTS 93 L / 10E

MAP TITLE	LOCATION MAP	
PROJECT TITLE	Mineral Hill	
PROJECT NO.	1039-1	SCALE 1 : 9,240,000



LOCATION MAP

93 N.W.

Figure 2. Location Map, Mineral Hill Claim Group

NTS 93 L / 10E

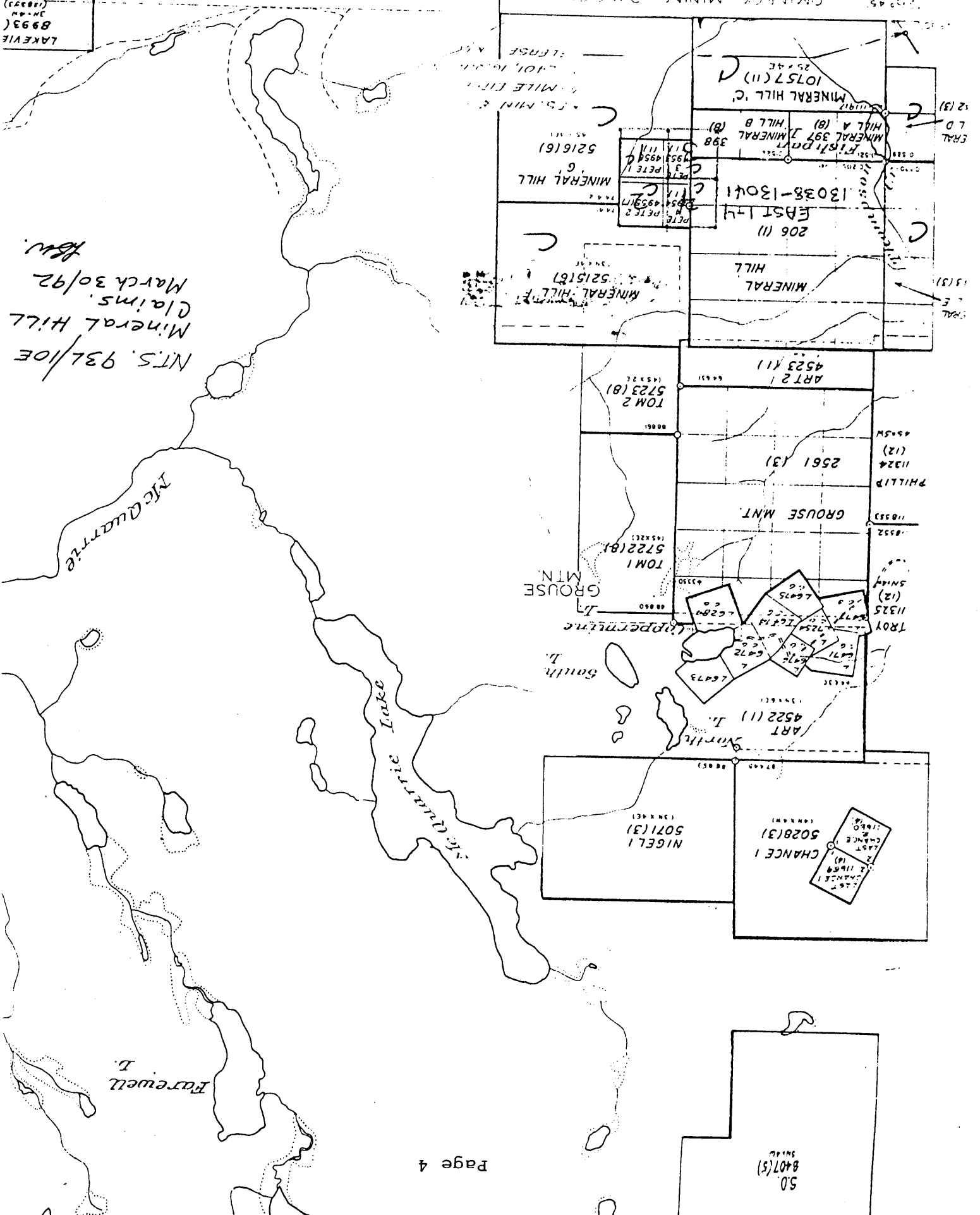
SCALE 1: 500,000



TO SOUTH SEE MAP 93L

LAKEVIEW  
8993  
S.M.A.  
(10000)

NTS. 93L/10E  
Mineral Hill  
Claims.  
March 30/92  
H.W.



#### PHYSIOGRAPHY, CLIMATE, VEGETATION

The Mineral Hill claims are situated on the western slopes and upper plateau of Mineral Hill, a subsidiary ridge of the higher Grouse Mountain range immediately to the north (figure 2). Elevations range from 2,500 feet (760 metres) to 4,500 feet (1370 metres) at the summit of Mineral Hill. The lower western slopes (location of the 1987 didamond drill program) are quite gentle with deciduous tree cover broken by open grassy meadows. The upper plateau of Mineral Hill is an area of low rolling hills and valleys with small lakes and swamps. Between 2,800 - 4,000 feet (850 - 1220 metres), steeper slopes with a thick cover fo coniferous forest hinders access and visibility.

Rock outcrop on the property is limited by overburden cover, undergrowth and swamp. The principal drainages on the property should provide adequate water for drilling purposes throughout the field season. Climate is typical of lower elevations in the west-central British Columbia; field work can be carried out from early May to late October.

#### REGIONAL GEOLOGICAL SETTING

The property is situated within the Hazelton Trough of the Intermontane tectonic belt, and area underlain principally by Mesozoic volcanic and sedimentary rocks intruded by a variety of granitic rocks ranging in age from early Jurassic to Tertiary. In the Smithers-Houston area, northwst trending lower Jurassic Hazelton Group subaerial to subaqueous red and green pyroclastic and flow rocks with inter calated sediments predominate. These are intruded by coeval Topley granitic rocks and by numerous granitic and lesser gabbroic stocks, dykes and plugs of late Cretaceous (Bulkley intrusives) and Tertiary age.

Structure of the region is dominated by northwest-striking fault structures along which vertical movement has been most prevalent.

A variety of mineral deposit types have been recognized in the general area, most common of which are polymetallic vein and replacement deposits (Cu, Pb, Zn, Ag, Mo, Au,) developed in Hazelton Group layered rocks commonly adjacent to younger granitic intrusions. The region is also well known for porphyry copper and molybdenum deposits of several styles and ages (Carter, 1981). Not as well defined are volcanogenic massive sulphide deposits, of which only a few have been recognized to date. Copper-zinc mineralization on Grouse Mountain 5 km north of Mineral Hill has massive sulphide affinities although cross-cutting relationships are evident.

Silver-copper mineralization at the Equity Silver Mine, located 40 km southeast of Houston consists of disseminated vein and breccia filling sulphide and sulfosalt mineralization, sub-concordant with host-rock stratigraphy contained in a well-developed alteration zone, possibly related to hydrothermal fluids circulation at a high level in a porphyry system. Mineralization has characteristics of both massive sulphide and replacement types of mineral deposit. Production commenced in the Southern Tail deposit in 1980 and totalled 4.3 million tonnes grading 135 g/tonne silver, 0.45% copper, 1.3 g/tonne gold by December 1982. Production from the Main Zone orebody began in late 1983 with ore reserves of 21.6 million tonnes grading 109 g/tonne silver, 0.35% copper and 0.85 g/tonne gold (Cyr, Pease and Schoeter, 1984).

#### PROPERTY GEOLOGY AND MINERALIZATION

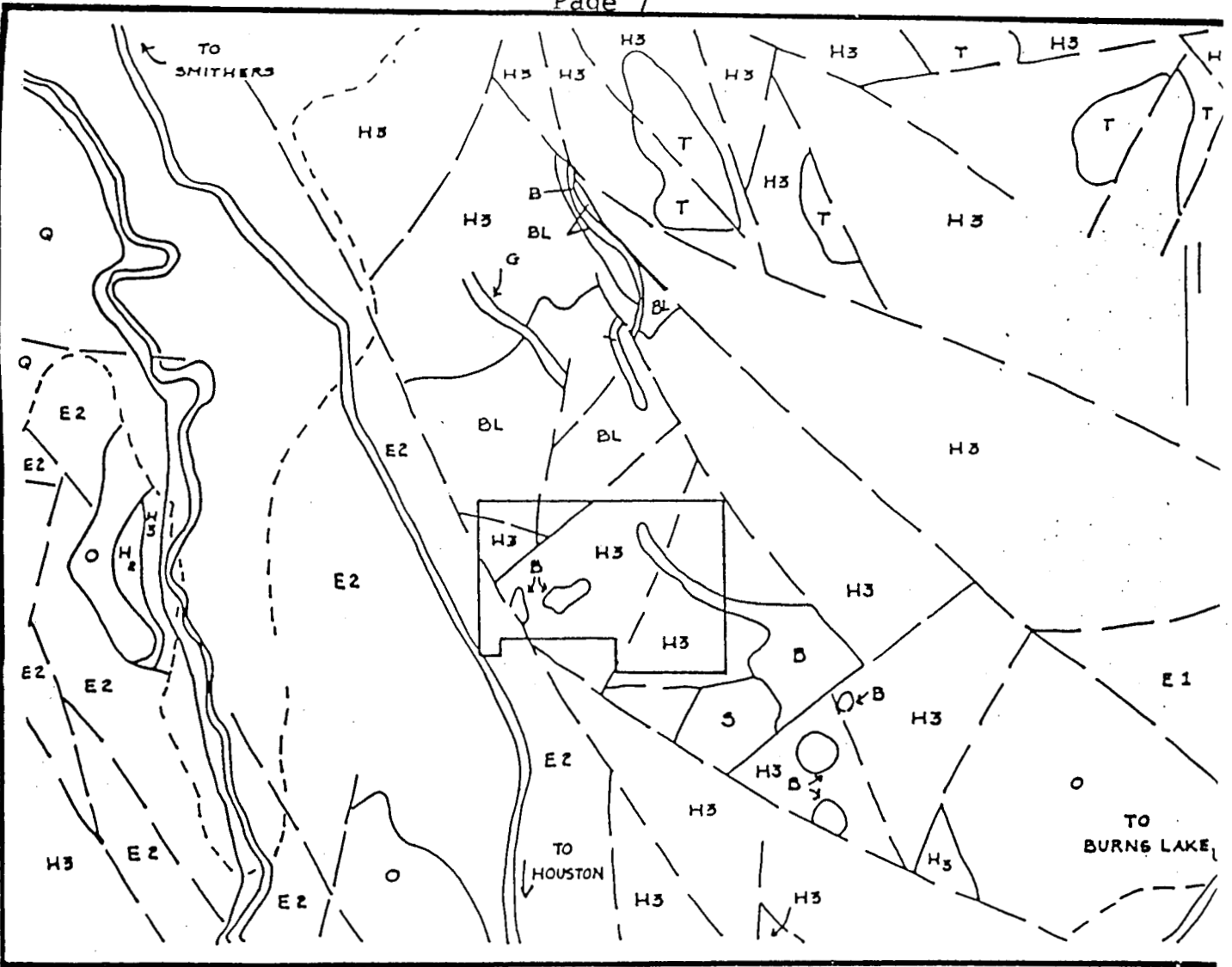
The Mineral Hill property is largely underlain by a northwest striking sequence of volcanic rocks of the Telkwa Formation (Hazelton Group) with lesser volumes of sedimentary rock and probably belonging to the Upper Jurassic Bowser Lake Group. In the areas drilled in 1987 these rocks are strongly hornfelsed by a variety of intrusive rocks of late Cretaceous (Bulkley) age.

Volcanic rocks are predominantly andesitic flows and pyroclastics with lesser amounts of rhyolite and basalt. Sedimentary units include argillite, quartzite and greywacke with some limy varieties occurring locally. Gill and Myers (1984) reported a resistant trachytic flow unit with large feldspar laths capping low ridges on the upper plateau of Mineral Hill. This unit resembles Tertiary Goosly Lake volcanics elsewhere in the district.

Bodies of porphyritic quartz-monzonite ("quartz feldspar porphyry") and alaskite are the principal intrusive rocks occurring in the western part of the property. Further to the east on Mineral Hill are outcrops of medium grained diorite. Dykes of aplite and monzonite are present around the quartz-monzonite stock. These intrusions have produced a large area of hornfelsing (perhaps 2000 by 2500 metres) in the surrounding volcanic and sedimentary units. Hard fine-grained biotite hornfels is the most common type in the South (Alaskite) zone. Hornfelsing hardened the rocks surrounding the intrusions and made them brittle and hence more susceptible to the development of fracture and breccia zones.

Typical mineralization consists of pyrite, pyrrhotite, monybenite and chalcopyrite with quartz, calcite, minor siderite or feldspar in fractured intrusive rocks or zones of quartz breccia in hornfels. Silver-bearing tetrahedrite with galena, sphalerite and chalcopyrite occurs within both the Alaskite and Quartz Breccia zones.





INTRUSIVE ROCKS

- G** EOCENE - GOOSLY LAKE MONZONITE
- B** LATE CRETACEOUS - BULKLEY GRANODIORITE, QUARTZ MONZONITE
- T** EARLY JURASSIC - TOPLEY GRANODIORITE, QUARTZ MONZONITE

SEDIMENTARY AND VOLCANIC ROCKS

- Q** QUATERNARY - ALLUVIUM
- ENDAKO GROUP
- E1** LOWER MIOCENE - BASALT BRECCIA
- E2** EOCENE - OLIGENE: ANDESITE, DACITE

QOITSA LAKE GROUP

- O** LATE CRETACEOUS - EOCENE: RHYOLITE, DACITE

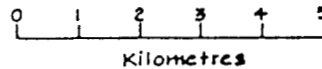
SKEENA GROUP

- S** LOWER CRETACEOUS: SHALE, GREYWACKE

BOWSER LAKE GROUP

- BL** UPPER JURASSIC: SHALE, SANDSTONE
- HAZELTON GROUP
- H1** MIDDLE JURASSIC SMITHERS FORMATION; GREYWACKE, SHALE
- H2** LOWER JURASSIC: RED TUFF
- H3** LOWER JURASSIC TELKWA FORMATION: RED, GREEN TUFF, BRECCIA FLOWS

- RAILWAY
- LIMIT OF OUTCROP
- FAULTS, LINEAMENT



MINERAL HILL REGIONAL GEOLOGY		
N.T.S.: 93L10	LBW	DATE: June 9,
SCALE: 1:125,000	DRAFTING: LBW	FIGURE: 3

#### SUMMARY OF PREVIOUS EXPLORATION

Initial work on Mineral Hill was carried out in 1914 or earlier when a 5 metre shaft was sunk on a narrow quartz vein containing silver, copper, lead and minor gold values. A number of other showings were explored in the 1920's by trenches, short adits and shallow shafts.

During the 1960's and 1970's, considerable exploration was carried out for large tonnage molybdenum-copper mineralization. In 1966 Cominco and Molybdenum Exploration Ltd. completed a large program of geological, geophysical and geochemical surveys, trenching and 15 diamond drill holes (2225 metres). In 1967, Molybdenum completed 102 percussion drill holes (2882 metres) and 13 diamond drill holes (1308) (Sharp, 1968). In 1976, Granby Mining Corporation optioned the property and drilled 12 percussion holes (683 metres) in the Granby Zone, east of the North zone. Granby completed seven percussion holes in 1978 (James, 1979) in the east edge of the quartz monzonite (575 metres) and three widely spaced diamond drill holes (902 metres) in the area of percussion drilling, in the Alaskite Zone and in the Breccia Zone. Control of Granby Mining was passed to Noranda in 1979; they carried out programs of prospecting, geochemical and geophysical surveys in 1981, 1983 and 1984 (Gill and Myers, 1984). Southern Cross Gold Inc. drilled 512.8 metres in eight holes in 1987.

In summary, molybdenite grades of 0.10% MoS<sub>2</sub> are associated with closely spaced quartz veins peripheral to this zone carrying silver-lead-zinc values were tested by early workings and some of the more recent exploration. Molybdenite mineralization in the eastern part of the quartz monzonite ("Granite Zone") generally grades less than 0.05% MoS<sub>2</sub>. Low molybdenite values were also found in Granby's drill testing of a hornfels zone in the northeast part of the Mineral Hill claim ("Granby Zone"; James, 1979). The Quartz Breccia Zone has approximate surface dimensions of 240 to 450 metres (Sharp, 1968) with grades of 0.05% MoS<sub>2</sub> indicated by extensive trenching and drilling.

Molybdenum's drilling in 1966-1967 indicated that a quartz vein system with sometimes significant silver values was present in the Quartz Breccia Zone. Diamond drill hole D-16 intersected a narrow vein grading 135.8 g/ton silver. Hole D-14 was the only hole completely analyzed for silver; values ranged from 0.06 to 3.7 oz/ton. Hole D-20 included a 50 foot interval grading 1.2 oz/ton silver. Hole D-16 is located approximately 300 metres southeast of holes D-14, D20.

During 1985 the Mineral Hill property was optioned by Dafrey Resources who cleaned out and sampled some of the old trenches in the Quartz Breccia Zone and material from dumps at old workings on the silver-bearing quartz veins elsewhere on the property. One sample by N.C. Carter, P.Eng. contained 659 oz/ton silver and 0.29 oz/ton gold in a narrow tetrahedrite vein exposed in a trench in the south east portion of the Quartz Breccia Zone. Dafrey drilled 12 percussion holes in the quartz Breccia and Alaskite Zones. At the same time, Lacana Mining Corporation compiled much of the earlier data on the property and assayed samples from the 1985 drilling, pulps from Moly mine's and Granby's percussion drilling and core from the top 200 metres of Graby's G78-1 drill hole in Quartz Breccia Zone. These analyses indicated an area of silver mineralization within the Quartz Breccia Zone grading around 2 oz/ton silver, with dimensions of 10 by 30 by 250 metres; however, results from hole G78-1, drilled in the centre of this block, showed no significant silver values. Lacana's interest in the property expired in late 1985.

In 1987, Southern Cross Gold Inc. completed eight diamond drill holes on the Mineral Hill claim (record number 206) totalling 521.8 metres.

In 1991 a soil sample survey was undertaken to determine if a relationship existed between gold and silver geochem values and copper and molybdenite geochem values in the soil. A weak relationship between the precious metal soil geochem values and the base metal values seemed to exist.

1992 Geochem Soil Sample Survey

A grid using metric coordinates was established for sampling. In 1991 at a point 123 metres at 026 degrees from Identification post 1E for Mineral Hill "A" a tree was cut off one metre high, squared and marked with the coordinates 10,000 E and 10,000 N. A baseline was established for 250 metres at a bearing of 330 degrees. Wooden lath was used to mark all Baseline stations\* and for all stations along the flagged and blazed sidelines.

In 1992 crass line 100 north from the 1991 grid was extended for a distance of 200 metres at 060 degees and cross lines were turned off at fifty metre intervals establishing lines 102+50 E , 103+00 E , 103+50 E and 104+00 E. These lines were blazed and sampled at twenty-five intervals except where trench and road disturbance occurred. The bearing of the crosslines was 330 degrees True.

All samples were placed in brown Kraft soil bags and delivered to the Min En Prep. Lab in Smithers.

All samples taken were analysed by I.C.P. methods for thirty-one elements and for gold by Geochem AA methods.

\* NOTE : In 1991 a labeling error occurred on the Baseline and sidelines were turned off at 50 metre intervals but labled in the field and on the sample bags as 100 metre intervals. The Geochem maps in this report are plotted correctly.

A PC-XPLOR computer program was used to generate histograms for Pb, Zn, Au, Ag, Cu and Mo. Using the 1992 sample population of 42 "B" horizon soils the following table was constructed.

<u>ELEMENT</u>	<u>WEAKLY ANOMOLOUS</u>	<u>STRONGLY ANOMOLOUS</u>
Pb	27-40	40+
Zn	900-1500	1500+
Cu	200- 300	300+
Mo	29- 70	70+
Au	10- 15	15+
Ag	1.2- 2	2+

PURPOSE OF THE 1992 SOIL GEOCHEM SURVERY

The 1991 soil sample survey was undertaken to determine if a relationship exists between Gold and Silver geochem values and copper and molybdenite geochem values in the soil. An extensive data base of old geochemical soil survey results for copper and molybdenite exists and if a relationship between the precious metal geochem values and the basemetal values could be shown smaller grids over the old soil anomolies could be done thus reducing the overall size of the area which would have to be covered by new soil grids.

PURPOSE OF THE 1992 SOIL GEOCHEM SURVEY

High geochem values in zinc, gold, silver and copper on the Eastern side of the 1991 soil grid indicated more sampling towards the East was necessary.

DISCUSSION OF RESULTS

The grid extention to the East indicates a strong anomoly in copper, gold and moly exists. More sampling with closer spacing between existing lines should be undertaken in this area and over the adjoining 1991 grid.

## REFERENCES

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- James, D.H., 1978 : Drilling Report, Mineral Hill, for Granby Mining Corporation. B.C.D.M. Assessment Report 7117.
- Sellmer, H.W., 1966 : Property Examination Report of the Mineral Hill Moly Prospect. Private report for Amax.
- Sharp, W.M., 1968 : Summary Geological Report - Mineral Hill Project. Private report for Moly mine Explorations Ltd.
- Tipper, H.W., Richards, T.A., 1976 : Geology, Smithers Map Area. Geological Survey of Canada Open File 351.
- Robertson, R.C.R. : Diamond Drilling on the Mineral Hill Property, Southern Cross Gold Inc.  
1987
- Warren, L.B. : 1991 Geochem Survey

Appendix 1  
Statement of cost

STATEMENT OF COSTS

WAGES

LABOUR COSTS 12 mandays @ \$ 87.50	\$1050.00
SUPERVISION AND REPORT WRITING (L.B. Warren , 2 Field and 1 Report	750.00
ANALYSIS ( No Charge )	
FIELD TRANSPORTATION	375.00
FIELD EXPENSES	200.00
ROOM AND BOARD	200.00
TOTAL COSTS OF PROJECT	\$ 2575.00
PAC WITHDRAWAL	857.00
TOTAL FOR ASSESSMENT PURPOSES	\$ 3432.00



Appendix 2

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

- 1963 Geological Assistant - Mastodon Highland Bell  
Gordon Hilchey - Geologist  
Dome Mnt. - Smithers B.C.
- 1964 Geological Assistant - Phelps Dodge Corp.  
Stikine Area , B.C.
- 1965 Geological Assistant - Native Mines Ltd.  
W.J. Wilkinson - Geologist  
Terrace Area , B.C.
- 1966 Prospector and Geological Assistant  
Native Mines Ltd.  
W.J. Wilkinson - Supervisor  
Bridge River Area ,B.C.
- 1966 - 1971 Full time- Field Tech.- Line cutter - Prospector  
Manex Mining Ltd.  
Throughout B.C.
- 1971 - 1979 Granby Mining Corp.- Field Supervisor -  
Office Manager - Smithers area  
Supervised Drill programs  
Logged Drill core and Percussion Cuttings
- 1979 - Present President and Manager - CJL Enterprises Ltd.  
Kengold Mines Ltd. and Angel Jade Mines Ltd.  
Full time Prospector

Appendix 3

Analytical Results

CLASSICAL STATISTICS AND HISTOGRAMS

COMP: SMITHERS EXPLORATION GROUP

PROJ: BUSH SKILLS 1992

ATTN: LORNE WARREN

MIN-EN LABS --- ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 2S-0070-SJ1+2

DATE: 92/05/26

\* SOIL \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM
L102+50E 103+75N	.1	10720	4	3	251	.1	5	5050	3.0	10	28	27130	950	10	3950	1042	5	540	7	480	17	1	28	1	723	60.0	451	1	1	2	18	9
L102+50E 103+50N	.1	14260	1	4	224	.2	6	5900	.1	11	25	27960	1300	14	5690	1087	4	670	13	620	15	1	31	1	854	60.0	264	1	1	3	19	14
L102+50E 103+25N	.1	12300	1	4	218	.2	6	5520	.1	11	17	28530	1200	13	4320	1120	4	440	7	570	12	1	28	1	835	63.5	180	1	1	2	19	1
L102+50E 103+00N	.2	14630	1	4	225	.3	7	4940	.1	10	38	28610	1100	17	5520	854	7	490	12	410	10	1	24	1	922	61.9	369	1	1	2	21	1
L102+50E 102+75N	.8	17550	3	5	270	.5	6	5310	.1	11	76	30590	1240	15	5700	683	8	130	11	470	10	1	27	1	881	65.1	421	1	1	2	23	1
L102+50E 102+50N	.2	13700	4	4	188	.2	6	6060	.1	11	40	30720	1060	11	5520	618	5	440	12	680	14	1	30	2	972	65.2	216	1	1	2	24	16
L102+50E 102+00N	5.5	49780	9	15	920	1.6	6	11120	.1	18	473	59410	4210	45	10940	2335	54	740	51	880	32	1	70	5	325	96.0	1421	1	1	3	51	3
L102+50E 101+75N	1.6	48390	14	13	816	1.9	7	8480	.1	19	483	56630	3660	36	12410	1532	34	490	43	820	33	1	49	6	364	98.5	816	1	1	4	52	8
L102+50E 101+50N	3.5	33790	10	9	630	1.5	5	6850	.1	16	719	42760	2720	24	10100	1297	26	320	36	690	27	1	40	4	472	76.8	551	1	1	3	38	16
L102+50E 101+00N	.1	15640	11	4	217	.4	6	5550	.1	11	49	31330	1310	17	6680	611	6	360	14	600	14	1	29	2	772	60.0	375	1	1	2	24	9
L102+50E 100+75N	.3	14270	14	4	456	.3	6	6130	2.7	13	37	30380	1100	12	5570	1576	7	470	13	970	14	1	41	1	801	62.6	779	1	1	2	23	5
L102+50E 100+50N	.5	15860	10	4	310	.5	7	5990	.2	12	32	30520	1120	14	6790	917	5	490	13	870	25	1	34	1	914	64.1	645	1	1	3	23	2
L102+50E 100+25N	.5	16140	5	4	424	.4	7	4500	.1	11	24	29710	1150	14	5340	1499	6	550	9	920	19	1	28	1	872	62.1	829	1	1	2	21	1
L103+00E 102+50N	1.2	13890	5	3	358	.3	7	5070	5.6	12	65	29660	1180	10	4770	1170	9	380	9	420	20	1	29	2	867	62.5	634	1	1	2	21	4
L103+00E 102+25N	.6	10530	9	2	296	.3	5	5230	1.5	9	53	24730	830	9	4630	906	10	310	10	650	20	1	28	2	457	46.7	428	1	1	2	18	4
<del>L103+00E 102+25N</del>	<del>.8</del>	<del>18020</del>	<del>34</del>	<del>5</del>	<del>341</del>	<del>.5</del>	<del>8</del>	<del>4700</del>	<del>.1</del>	<del>15</del>	<del>115</del>	<del>34690</del>	<del>1440</del>	<del>18</del>	<del>6140</del>	<del>1897</del>	<del>28</del>	<del>360</del>	<del>12</del>	<del>550</del>	<del>32</del>	<del>1</del>	<del>24</del>	<del>2</del>	<del>774</del>	<del>66.2</del>	<del>620</del>	<del>1</del>	<del>1</del>	<del>3</del>	<del>25</del>	<del>4</del>
L103+00E 102+00N	.6	10660	8	2	216	.1	7	4780	.5	10	19	25180	990	11	3980	898	8	340	6	360	14	1	26	2	865	60.3	398	1	1	2	20	12
L103+00E 101+75N	.4	12300	12	3	243	.2	7	4680	3.6	10	52	26670	1090	12	4410	1098	14	420	7	550	18	1	24	2	796	55.4	523	1	1	2	19	4
L103+00E 100+75N	.1	15160	890	12	622	3.7	7	7820	.1	21	88	80930	1920	12	7780	7667	243	590	18	1120	33	24	58	1	546	55.6	3542	1	1	3	29	9
L103+00E 100+50N	.1	15300	589	10	590	2.4	7	8230	.1	19	84	64710	1920	12	7880	5888	170	590	20	1090	30	15	61	1	575	57.0	2873	1	1	3	27	1
L103+00E 100+25N	.5	22470	9	5	460	.8	8	5930	.1	15	130	35490	1910	20	8820	1622	10	520	25	800	19	1	39	2	807	71.7	463	1	1	3	32	16
L103+00E 100+00N	.7	17410	12	3	435	.5	7	5690	.1	14	120	33760	1330	17	7130	1792	12	510	22	770	24	1	35	2	803	63.9	688	1	1	3	24	18
L103+50E 102+75N	1.0	18910	13	5	286	.4	8	5550	.1	15	163	41480	1570	18	8100	801	20	460	14	700	19	1	29	2	969	79.5	319	1	1	3	27	3
L103+50E 102+50N	.9	15340	8	3	201	.3	7	5120	.1	12	57	30990	1140	17	6530	636	8	600	13	550	13	1	27	2	966	63.4	428	1	1	2	23	11
L103+50E 102+25N	1.5	13920	4	2	235	.2	7	4720	2.2	9	141	24990	1170	14	4590	534	7	580	9	400	16	1	25	2	911	54.5	837	2	1	2	20	1
L103+50E 102+00N	1.3	20660	5	5	315	.7	8	5600	.1	13	183	33880	1600	18	7050	892	14	510	18	710	98	2	30	3	805	68.9	1014	1	1	2	28	5
L103+50E 101+75N	.5	22370	3	5	336	.6	6	5160	.1	12	118	34400	2030	19	8320	908	10	470	22	730	11	1	28	2	705	66.5	266	1	1	2	28	6
L103+50E 101+50N	.6	19000	9	4	278	.6	7	5650	.1	14	79	34620	1800	16	7930	1007	16	730	17	620	16	1	30	2	910	69.1	215	1	1	2	26	3
L103+50E 101+25N	.5	18190	5	4	234	.5	6	5670	.1	13	70	33750	1630	20	7710	1118	14	580	15	490	17	1	29	2	841	68.0	631	1	1	2	25	12
L103+50E 101+00N	.8	23710	54	8	348	1.2	6	8700	.1	16	224	47970	2770	18	7730	3408	45	480	22	920	24	1	47	3	561	67.1	3165	1	1	2	31	9
L103+50E 100+75N	.1	16980	8	6	352	.6	5	5940	.1	13	39	33030	1490	17	6620	1519	4	110	22	820	16	1	27	1	881	66.1	406	1	1	3	25	5
L103+50E 100+50N	.1	15770	9	3	268	.5	5	5780	.1	13	34	32250	1200	15	6530	1417	4	460	17	910	15	1	29	1	783	62.0	267	1	1	3	22	8
L103+50E 100+00N	.1	18210	1	3	283	.4	4	5060	.1	10	39	29070	1240	15	6040	773	3	90	17	640	6	1	24	1	721	59.4	173	1	1	2	23	6
L104+00E 102+25N	.2	18150	7	3	258	.6	6	5640	.1	11	51	32770	1580	19	6900	579	4	150	12	510	8	1	22	1	932	68.0	145	1	1	3	25	7
NO BAG NUMBER #1 <i>102+50</i>	1.2	36790	1	8	564	1.7	5	8830	.1	16	473	45550	3350	29	10660	2289	21	470	37	870	16	1	39	1	501	83.7	1090	1	1	3	40	6
L104+00E 101+75N	.3	21070	4	5	298	.5	6	7920	.1	14	68	36420	1890	18	8590	1922	14	340	20	900	18	1	36	1	980	70.4	1324	1	2	3	29	7
NO BAG NUMBER #2 <i>101+50</i>	.3	15710	5	1	156	.2	6	6680	.1	10	22	27460	2070	15	6700	418	5	110	10	550	10	1	28	1	1078	59.6	609	1	1	2	21	6
L104+00E 101+25N	.2	27410	8	5	412	.8	6	6270	.1	13	255	39670	2040	23	8970	2000	23	470	25	720	13	1	28	1	766	73.2	594	1	1	3	32	7
NO BAG NUMBER #3 <i>101+50</i>	.2	19990	4	2	405	.8	5	7540	.1	13	84	33150	1660	18	7250	1508	5	460	24	1090	14	1	38	1	720	63.2	474	1	1	2	24	5
L104+00E 100+75N	.1	16260	7	2	248	.4	5	6810	.1	13	46	33170	1340	17	7390	1009	9	370	17	840	12	1	33	1	921	64.6	418	1	1	2	22	7
NO BAG NUMBER #4 <i>100+50</i>	.1	12070	7	2	568	.3	5	11110	4.7	13	39	27380	1740	12	4770	1900	5	300	13	1530	15	1	62	1	759	52.9	610	1	1	2	19	9
L104+00E 100+25N	.1	16600	7	3	527	.5	4	7760	.1	12	41	31510	2070	17	6430	1620	5	460	16	1190	12	1	40	1	743	64.4	528	1	1	3	27	7
NO BAG NUMBER #5 <i>101+50</i>	.1	16690	34	1	263	.5	4	5330	.1	12	25	31160	1210	15	6330	773	2	90	17	690	8	1	24	1	736	60.1	119	1	1	2	23	4

PC PLOR VERSION 1.30  
Exploration Data Manager  
By GEMCOM SERVICES INC.

MPD Consultants  
8: 8:32 Serial no: 22325  
17/ 4/93 Page : 1

\*\*\* Mineral Hill Property \*\*\*  
\*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
DATA DESCRIPTION : 1993 data  
USER DESCRIPTION : *Mo ppm*

DATA VALUES ENTERED

MINIMUM CUTOFF VALUE : 2.000  
MAXIMUM CUTOFF VALUE : 243.000  
TOTAL NUMBER OF SAMPLES USED : 42  
  
MINIMUM HISTOGRAM VALUE : 2.000  
MAXIMUM HISTOGRAM VALUE : 243.000  
CLASS INTERVAL : 6.886  
  
MINIMUM POPULATION DATA POINT : 2.000  
MAXIMUM POPULATION DATA POINT : 243.000  
TOTAL POPULATION : 42

UNGROUPED DATA      GROUPED DATA

TOTAL NO OF SAMPLES	42	
ARITHMETIC MEAN	21.0714	21.3464
MEDIAN		8.5730
GEOMETRIC MEAN	10.1055	10.7454
NATURAL LOG MEAN	2.3131	2.3745
STANDARD DEVIATION	43.5805	43.1469
VARIANCE	1899.2570	1861.6550
COEFFICIENT OF VARIATION	2.0682	2.0213
MOMENT 1 ABOUT ARITHMETIC MEAN	.0000	.0000
MOMENT 2 ABOUT ARITHMETIC MEAN	1899.2570	1861.6550
MOMENT 3 ABOUT ARITHMETIC MEAN	337781.4000	325709.3000
MOMENT 4 ABOUT ARITHMETIC MEAN	69542960.0000	65913320.0000
MOMENT COEFFICIENT OF SKEWNESS	4.0809	4.0549
MOMENT COEFFICIENT OF KURTOSIS	19.2791	19.0184

NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

PC-XPLOR VERSION 1.30  
 Extraction Data Manager  
 By GEMCOM SERVICES INC.

MPD Consultants  
 8: 8:35 Serial no: 22325  
 17/ 4/93 Page : 4

Mineral Hill Property  
 Lorne Warren

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CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Mo ppm

NORMAL HISTOGRAM

FREQUENCY 1.1905 PERCENT PER STAR

>= FROM	< TO	11.90	23.81	35.71	47.62	59.52	71.43
2.000	8.886	*****					
8.886	15.772	*****					
15.772	22.658	*****					
22.658	29.544	****					
29.544	36.430	**					
36.430	43.316						
43.316	50.202	**					
50.202	57.088	**					
57.088	63.974						
63.974	70.860						
70.860	77.746						
77.746	84.632						
84.632	91.518						
91.518	98.404						
98.404	105.290						
105.290	112.176						
112.176	119.062						
119.062	125.948						
125.948	132.834						
132.834	139.720						
139.720	146.606						
146.606	153.492						
153.492	160.378						
160.378	167.264						
167.264	174.150	**					
174.150	181.036						
181.036	187.922						
187.922	194.808						
194.808	201.694						
201.694	208.580						
208.580	215.466						
215.466	222.352						
222.352	229.238						
229.238	236.124						
236.124	243.010	**					

>= FROM < TO 5 10 15 20 25 30

CLASSICAL STATISTICS AND HISTOGRAMS

```

EXTRACTION FILENAME : minhill\minhill.mex
DATA DESCRIPTION    : 1993 data
USER DESCRIPTION    : Cu ppm

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DATA VALUES ENTERED

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-----
MINIMUM CUTOFF VALUE      :      17.000
MAXIMUM CUTOFF VALUE     :      719.000
TOTAL NUMBER OF SAMPLES USED :          42

MINIMUM HISTOGRAM VALUE  :      17.000
MAXIMUM HISTOGRAM VALUE  :      719.000
CLASS INTERVAL           :      23.400

MINIMUM POPULATION DATA POINT :      17.000
MAXIMUM POPULATION DATA POINT :      719.000
TOTAL POPULATION          :          42

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UNGROUPED DATA      GROUPED DATA

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TOTAL NO OF SAMPLES                42
ARITHMETIC MEAN                    116.7381      116.7286
MEDIAN                              60.4571
GEOMETRIC MEAN                      70.0312      70.3842
NATURAL LOG MEAN                    4.2489       4.2540
STANDARD DEVIATION                  150.0625     148.6810
VARIANCE                            22518.7600   22106.0300
COEFFICIENT OF VARIATION             1.2855       1.2737
MOMENT 1 ABOUT ARITHMETIC MEAN       .0000         .0000
MOMENT 2 ABOUT ARITHMETIC MEAN       22518.7600   22106.0300
MOMENT 3 ABOUT ARITHMETIC MEAN       8327574.0000 7953679.0000
MOMENT 4 ABOUT ARITHMETIC MEAN       *****
MOMENT COEFFICIENT OF SKEWNESS       2.4643       2.4199
MOMENT COEFFICIENT OF KURTOSIS       8.6084       8.3693

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NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

PC-XPLORE VERSION 1.30  
 Extraction Data Manager  
 By GEMCOM SERVICES INC.

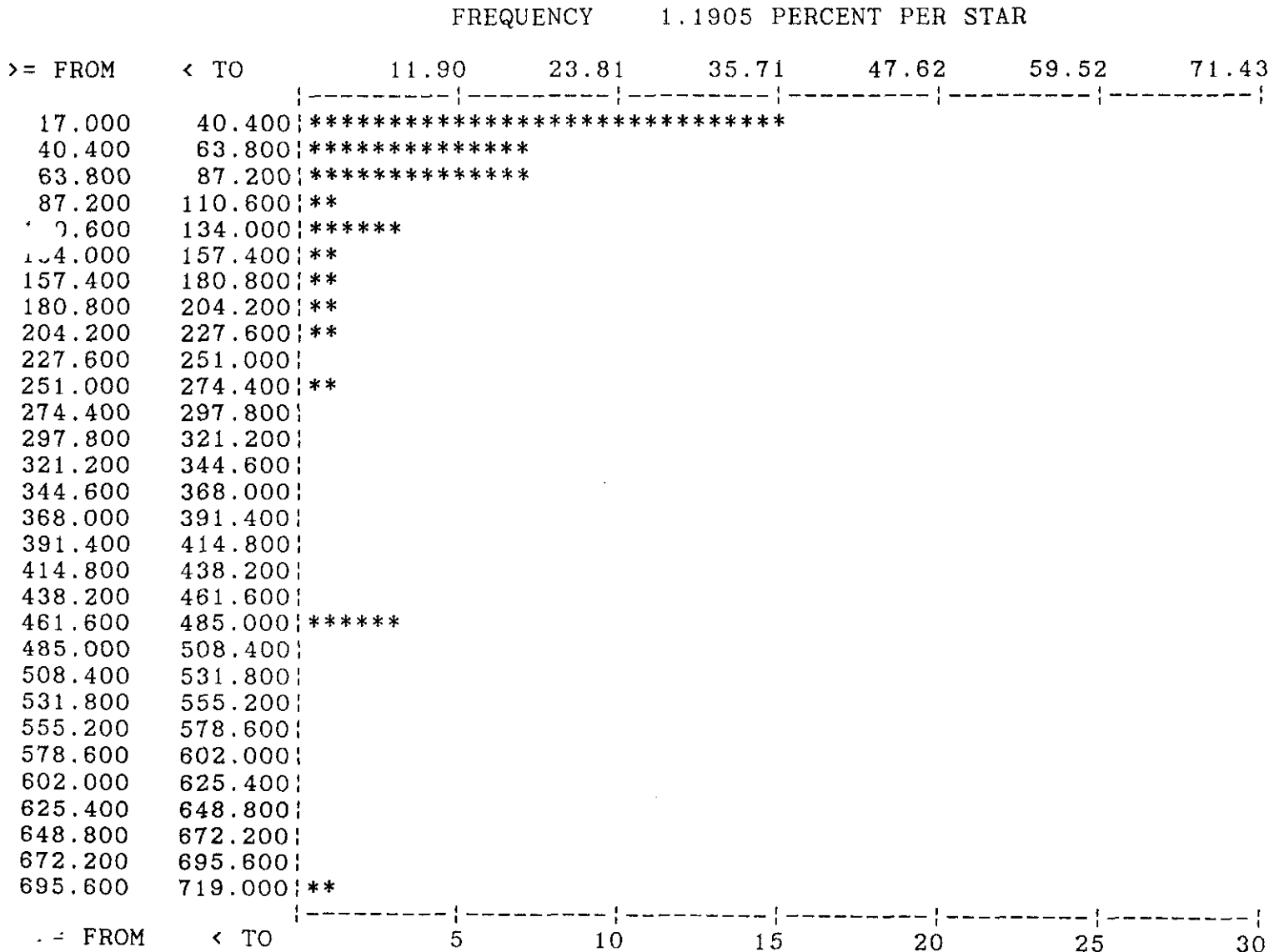
MPD Consultants  
 8: 1:44 Serial no: 22325  
 17/ 4/93 Page : 6

\*\*\* Mineral Hill Property \*\*\*  
 \*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Cu ppm

NORMAL HISTOGRAM



.5000 COUNTS PER STAR



PC-XPLOR VERSION 1.30  
 Exploration Data Manager  
 By GEMCOM SERVICES INC.

MPD Consultants  
 8:18:16 Serial no: 22325  
 17/ 4/93 Page : 1

\*\*\* Mineral Hill Property \*\*\*  
 \*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Zn ppm

DATA VALUES ENTERED

MINIMUM CUTOFF VALUE : 119.000  
 MAXIMUM CUTOFF VALUE : 3542.000  
 TOTAL NUMBER OF SAMPLES USED : 42

MINIMUM HISTOGRAM VALUE : 119.000  
 MAXIMUM HISTOGRAM VALUE : 3542.000  
 CLASS INTERVAL : 97.800

MINIMUM POPULATION DATA POINT : 119.000  
 MAXIMUM POPULATION DATA POINT : 3542.000  
 TOTAL POPULATION : 42

UNGROUPED DATA      GROUPED DATA

	UNGROUPED DATA	GROUPED DATA
TOTAL NO OF SAMPLES	42	
ARITHMETIC MEAN	726.1429	733.7429
MEDIAN		510.2000
GEOMETRIC MEAN	525.7568	531.6679
NATURAL LOG MEAN	6.2648	6.2760
STANDARD DEVIATION	746.8370	747.4280
VARIANCE	557765.5000	558648.6000
COEFFICIENT OF VARIATION	1.0285	1.0187
MOMENT 1 ABOUT ARITHMETIC MEAN	.0000	.0000
MOMENT 2 ABOUT ARITHMETIC MEAN	557765.5000	558648.6000
MOMENT 3 ABOUT ARITHMETIC MEAN	*****	*****
MOMENT 4 ABOUT ARITHMETIC MEAN	*****	*****
MOMENT COEFFICIENT OF SKEWNESS	2.6076	2.5710
MOMENT COEFFICIENT OF KURTOSIS	9.2386	9.0428

NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Zn ppm

NORMAL HISTOGRAM

		FREQUENCY 1.1905 PERCENT PER STAR					
>= FROM	< TO	11.90	23.81	35.71	47.62	59.52	71.43
119.000	216.800	*****					
216.800	314.600	*****					
314.600	412.400	*****					
412.400	510.200	*****					
510.200	608.000	*****					
608.000	705.800	*****					
705.800	803.600	**					
803.600	901.400	*****					
901.400	999.200						
999.200	1097.000	****					
1097.000	1194.800						
1194.800	1292.600						
1292.600	1390.400	**					
1390.400	1488.200	**					
1488.200	1586.000						
1586.000	1683.800						
1683.800	1781.600						
1781.600	1879.400						
1879.400	1977.200						
1977.200	2075.000						
2075.000	2172.800						
2172.800	2270.600						
2270.600	2368.400						
2368.400	2466.200						
2466.200	2564.000						
2564.000	2661.800						
2661.800	2759.600						
2759.600	2857.400						
2857.400	2955.200	**					
2955.200	3053.000						
3053.000	3150.800						
3150.800	3248.600	**					
3248.600	3346.400						
3346.400	3444.200						
3444.200	3542.000	**					

PC EXPLOR VERSION 1.30  
Exploration Data Manager  
By GEMCOM SERVICES INC.

8:22:14  
17/ 4/93

MPD Consultants  
Serial no: 22325  
Page : 1

\*\*\* Mineral Hill Property  
\*\*\* Lorne Warren

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CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
DATA DESCRIPTION : 1993 data  
USER DESCRIPTION : Au ppb

DATA VALUES ENTERED

MINIMUM CUTOFF VALUE : 1.000  
MAXIMUM CUTOFF VALUE : 18.000  
TOTAL NUMBER OF SAMPLES USED : 42  
  
MINIMUM HISTOGRAM VALUE : 1.000  
MAXIMUM HISTOGRAM VALUE : 18.000  
CLASS INTERVAL : .486  
  
MINIMUM POPULATION DATA POINT : 1.000  
MAXIMUM POPULATION DATA POINT : 18.000  
TOTAL POPULATION : 42

UNGROUPED DATA      GROUPED DATA

TOTAL NO OF SAMPLES	42	
ARITHMETIC MEAN	6.8571	6.9361
MEDIAN		6.2245
GEOMETRIC MEAN	5.1981	5.4416
NATURAL LOG MEAN	1.6483	1.6941
STANDARD DEVIATION	4.4858	4.3602
VARIANCE	20.1224	19.0114
COEFFICIENT OF VARIATION	.6542	.6286
MOMENT 1 ABOUT ARITHMETIC MEAN	.0000	.0000
MOMENT 2 ABOUT ARITHMETIC MEAN	20.1224	19.0114
MOMENT 3 ABOUT ARITHMETIC MEAN	67.1982	61.7102
MOMENT 4 ABOUT ARITHMETIC MEAN	1175.7910	1049.5310
MOMENT COEFFICIENT OF SKEWNESS	.7445	.7445
MOMENT COEFFICIENT OF KURTOSIS	2.9038	2.9038

NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

\*\*\* Mineral Hill Property \*\*\*  
 \*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Au ppb

NORMAL HISTOGRAM

FREQUENCY 1.1905 PERCENT PER STAR

>= FROM	< TO	11.90	23.81	35.71	47.62	59.52	71.43
1.000	1.486	*****					
1.486	1.972						
1.972	2.458	**					
2.458	2.944						
2.944	3.430	*****					
3.430	3.916						
3.916	4.402	*****					
4.402	4.888						
4.888	5.374	*****					
5.374	5.860						
5.860	6.346	*****					
6.346	6.832						
6.832	7.318	*****					
7.318	7.804						
7.804	8.290	****					
8.290	8.776						
8.776	9.262	*****					
9.262	9.748						
9.748	10.234						
10.234	10.720						
10.720	11.206	**					
11.206	11.692						
11.692	12.178	****					
12.178	12.664						
12.664	13.150						
13.150	13.636						
13.636	14.122	**					
14.122	14.608						
14.608	15.094						
15.094	15.580						
15.580	16.066	*****					
16.066	16.552						
16.552	17.038						
17.038	17.524						
17.524	18.010	**					
>= FROM	< TO	5	10	15	20	25	30

PC PLOR VERSION 1.30  
Exploration Data Manager  
By GEMCOM SERVICES INC.

MPD Consultants  
8:28:40 Serial no: 22325  
17/ 4/93 Page : 1

\*\*\* Mineral Hill Property \*\*\*  
\*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
DATA DESCRIPTION : 1993 data  
USER DESCRIPTION : Ag ppm

DATA VALUES ENTERED

MINIMUM CUTOFF VALUE : .100  
MAXIMUM CUTOFF VALUE : 5.500  
TOTAL NUMBER OF SAMPLES USED : 42  
  
MINIMUM HISTOGRAM VALUE : .100  
MAXIMUM HISTOGRAM VALUE : 5.500  
CLASS INTERVAL : .150  
  
MINIMUM POPULATION DATA POINT : .100  
MAXIMUM POPULATION DATA POINT : 5.500  
TOTAL POPULATION : 42

UNGROUPED DATA      GROUPED DATA

TOTAL NO OF SAMPLES	42	
ARITHMETIC MEAN	.6643	.6750
MEDIAN		.3625
GEOMETRIC MEAN	.3511	.4071
NATURAL LOG MEAN	-1.0466	-.8988
STANDARD DEVIATION	.9761	.9524
VARIANCE	.9528	.9071
COEFFICIENT OF VARIATION	1.4694	1.4110
MOMENT 1 ABOUT ARITHMETIC MEAN	.0000	.0000
MOMENT 2 ABOUT ARITHMETIC MEAN	.9528	.9071
MOMENT 3 ABOUT ARITHMETIC MEAN	3.2115	3.0577
MOMENT 4 ABOUT ARITHMETIC MEAN	14.6355	13.6441
MOMENT COEFFICIENT OF SKEWNESS	3.4532	3.5390
MOMENT COEFFICIENT OF KURTOSIS	16.1224	16.5803

NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

PC-XPLOR VERSION 1.30  
 Extraction Data Manager  
 By GEMCOM SERVICES INC.

MPD Consultants  
 8:28:51 Serial no: 22325  
 17/ 4/93 Page : 4

Mineral Hill Property  
 Lorne Warren

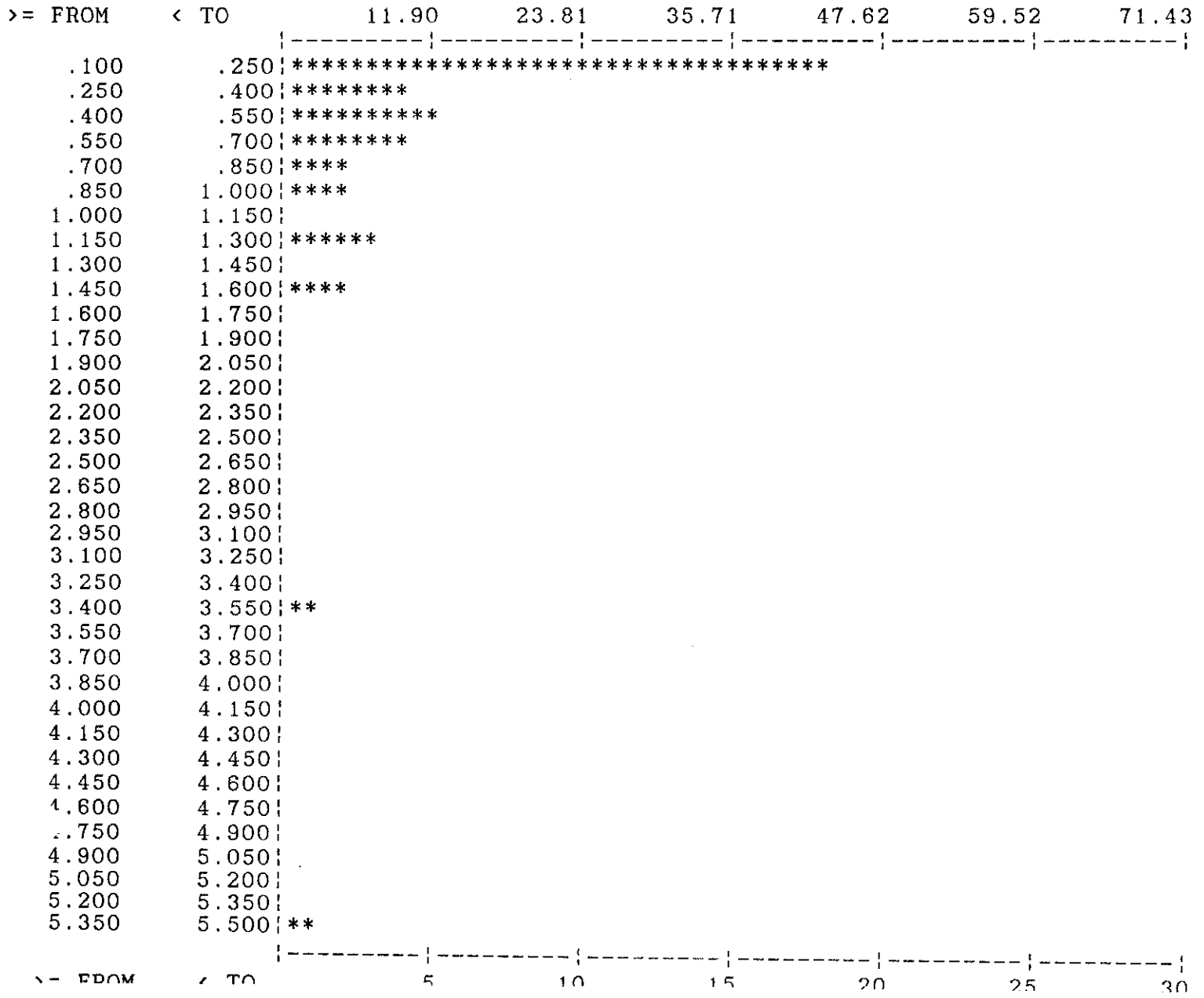
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CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Ag ppm

NORMAL HISTOGRAM

FREQUENCY 1.1905 PERCENT PER STAR



PC-XPLOR VERSION 1.30  
Exploration Data Manager  
By EMCOM SERVICES INC.

8:13:34  
17/ 4/93

MPD Consultants  
Serial no: 22325  
Page : 1

\*\*\* Mineral Hill Property \*\*\*  
\*\*\* Lorne Warren \*\*\*

CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
DATA DESCRIPTION : 1993 data  
USER DESCRIPTION : Pb ppm

DATA VALUES ENTERED

MINIMUM CUTOFF VALUE : 6.000  
MAXIMUM CUTOFF VALUE : 98.000  
TOTAL NUMBER OF SAMPLES USED : 42  
  
MINIMUM HISTOGRAM VALUE : 6.000  
MAXIMUM HISTOGRAM VALUE : 98.000  
CLASS INTERVAL : 2.629  
  
MINIMUM POPULATION DATA POINT : 6.000  
MAXIMUM POPULATION DATA POINT : 98.000  
TOTAL POPULATION : 42

UNGROUPED DATA      GROUPED DATA

TOTAL NO OF SAMPLES	42	
ARITHMETIC MEAN	18.9762	18.9572
MEDIAN		15.8588
GEOMETRIC MEAN	16.5383	16.5685
NATURAL LOG MEAN	2.8057	2.8075
STANDARD DEVIATION	13.9991	13.8062
VARIANCE	195.9756	190.6108
COEFFICIENT OF VARIATION	.7377	.7283
MOMENT 1 ABOUT ARITHMETIC MEAN	.0000	.0000
MOMENT 2 ABOUT ARITHMETIC MEAN	195.9756	190.6108
MOMENT 3 ABOUT ARITHMETIC MEAN	11753.8300	11209.3700
MOMENT 4 ABOUT ARITHMETIC MEAN	933795.5000	875260.8000
MOMENT COEFFICIENT OF SKEWNESS	4.2843	4.2595
MOMENT COEFFICIENT OF KURTOSIS	24.3135	24.0903

NB. LOG MEANS CALCULATED ON SAMPLES ABOVE ZERO

Mineral Hill Property  
 Lorne Warren

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CLASSICAL STATISTICS AND HISTOGRAMS

EXTRACTION FILENAME : minhill\minhill.mex  
 DATA DESCRIPTION : 1993 data  
 USER DESCRIPTION : Pb ppm

NORMAL HISTOGRAM

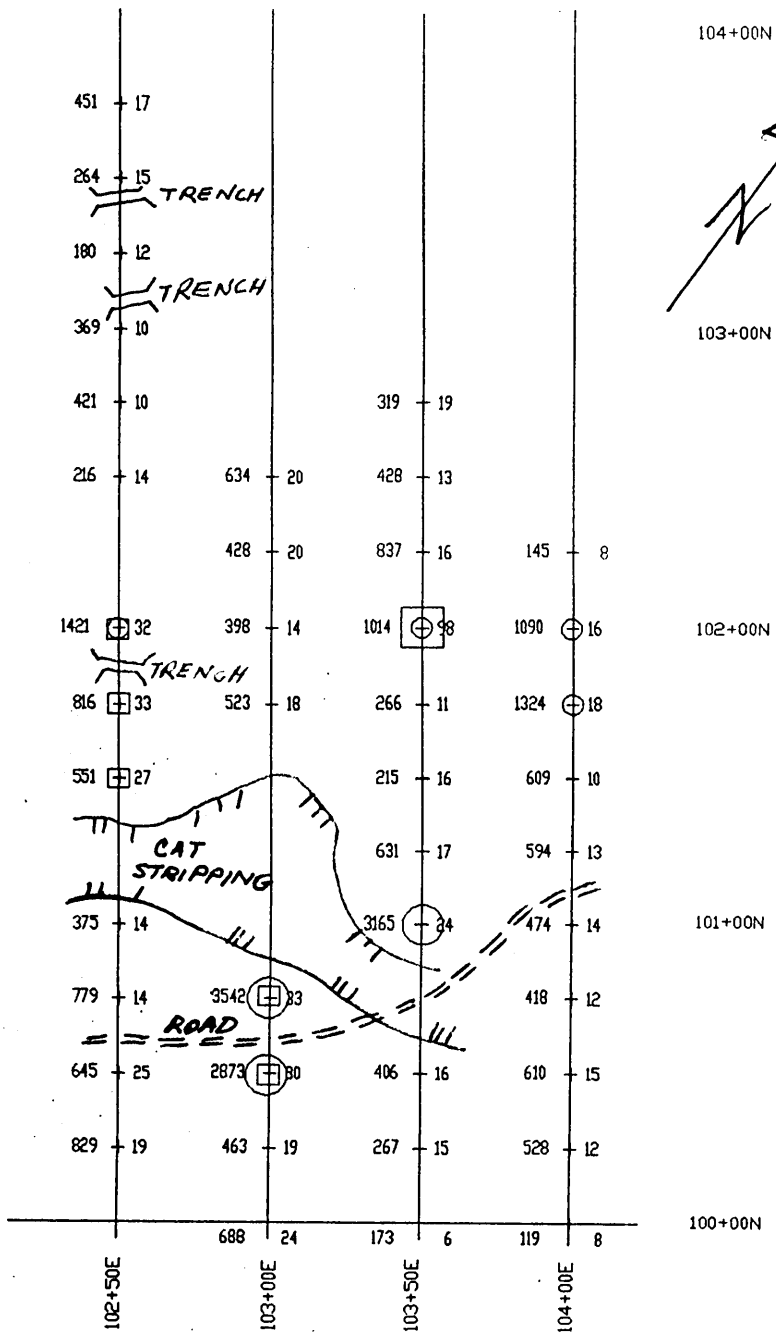
FREQUENCY 1.1905 PERCENT PER STAR

>= FROM	< TO	11.90	23.81	35.71	47.62	59.52	71.43
6.000	8.629	*****					
8.629	11.258	*****					
11.258	13.887	*****					
13.887	16.516	*****					
16.516	19.145	*****					
19.145	21.774	****					
21.774	24.403	****					
24.403	27.032	****					
27.032	29.661						
29.661	32.290	****					
32.290	34.919	****					
34.919	37.548						
37.548	40.177						
40.177	42.806						
42.806	45.435						
45.435	48.064						
48.064	50.693						
50.693	53.322						
53.322	55.951						
55.951	58.580						
58.580	61.209						
61.209	63.838						
63.838	66.467						
66.467	69.096						
69.096	71.725						
71.725	74.354						
74.354	76.983						
76.983	79.612						
79.612	82.241						
82.241	84.870						
84.870	87.499						
87.499	90.128						
90.128	92.757						
92.757	95.386						
95.386	98.015	**					



## 1992 TABLE

ELEMENT	Possibly Anomalous	Anomalous
Cu	200- 300	300+
Mo	29 - 70	70 +
Pb	27 - 40	40 +
Zn	900-1500	1500 +
Au	10 -15	15 +
Ag	1.7-2.0	2 +

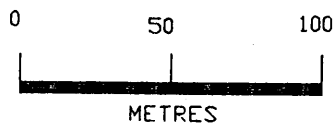
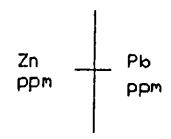


MINERAL HILL  
SOIL GEOCHEMISTRY  
1992 GRID

Zn      Pb

scale 1:2500      APRIL 1993

- Zn 900 to 1500 ppm ○
- Zn > 1500 ppm ○
- Pb 27 to 40 ppm □
- Pb > 40 ppm □

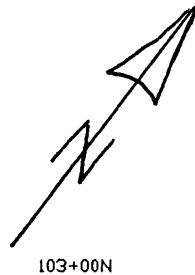


104+00N

MINERAL HILL  
SOIL GEOCHEMISTRY  
1992 GRID

Cu      Mo

scale 1:2500      APRIL 1993



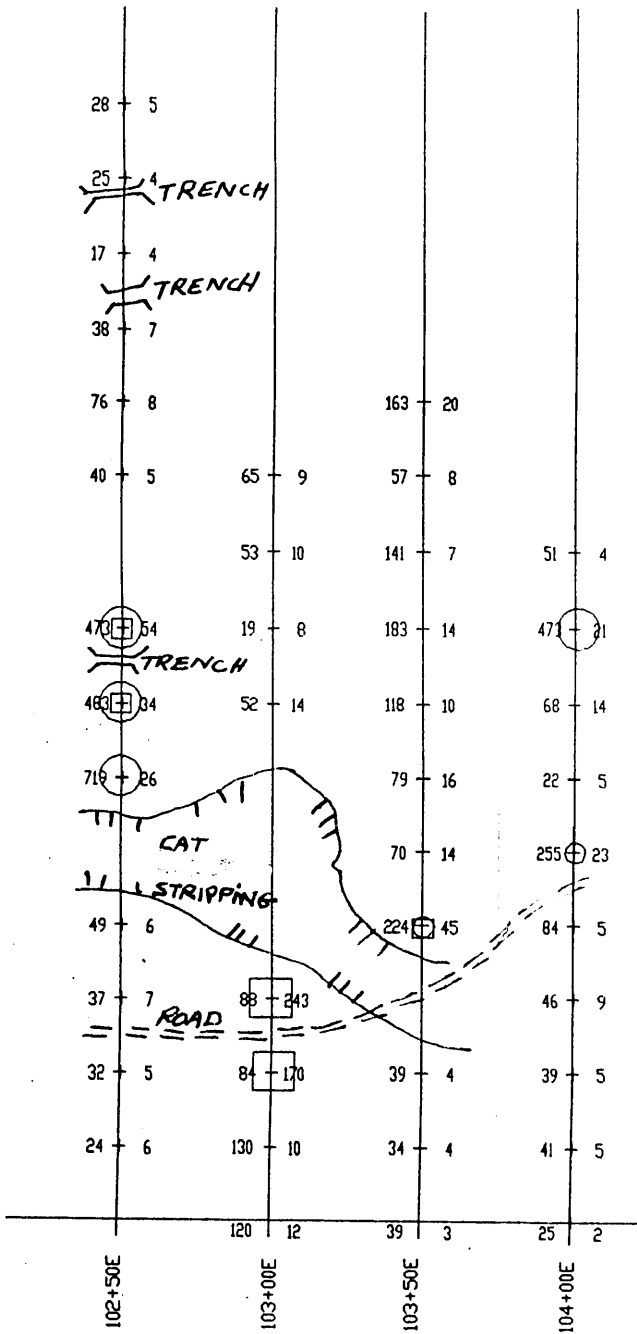
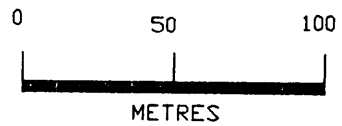
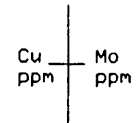
103+00N

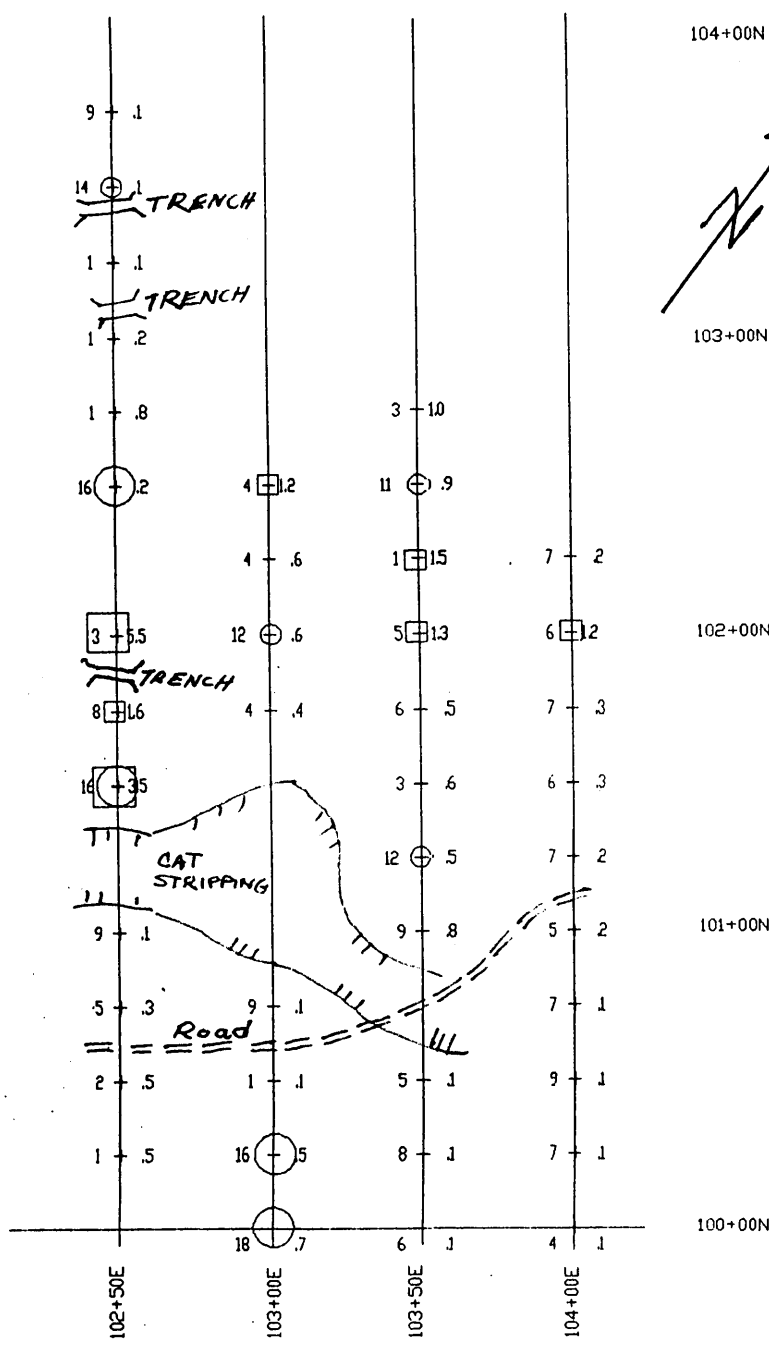
102+00N

101+00N

100+00N

- Cu 200 to 300 ppm      ○
- Cu > 300 ppm      ◉
- Mo 29 to 70 ppm      □
- Mo > 70 ppm      ◻





MINERAL HILL  
 SOIL GEOCHEMISTRY  
 1992 GRID

Au      Ag

scale 1:2500      APRIL 1993

- Au 10 to 15 ppb      ○
- Au > 15 ppb      ⊙
- Ag 1.2 to 2.0 ppm      □
- Ag > 2.0 ppm      ⊠

Au  
ppb

Ag  
ppm

