

Geological Report

Claims	Group 1	Claim Sheet 105 D 10 60 34 N/134 53W
	Sue 1-4	#75653-75656
	Jim 9-10	85337-85338
	Jim 27-30	85355-85358
	Ace 30	85476
	Group 2	Claim Sheet 105 D 10 60 34N/134 53W
	Jim 11-14	#85339-85342
	Jim 35-36	85363-85364
	Jim 38	85366
	Jim(fr)	Y37220
	Dennis 1	91274
	Dennis 3	91289
	Dennis 5	91291
	Dennis 9(fr)	Y25815
	Gem 1	75346
	Gem 2	75221
	Gem 3	75474
	Lobo 1	YB12802

Owner: LOBO DEL NORTE LTD Whitehorse Yukon. Whitehorse M.D.

Dates work performed: March 1998-December 1998.

Author: Barry Ernewein.

Dated: 17 March 1999.



094 024

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 5400.

M.B.
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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Introduction

The claims in Groups 1 and 2 are located at the southeastern end of the Whitehorse Copper Belt which is a 30 km zone of copper and other metal mineralization occurring within a series of skarn deposits. These deposits are geographically located just west of the whitehorse airport.

Periodically during the spring to autumn months the author sampled outcrops, float, and soil on claims Sue 1-4, Jim 29 of Group 1 and claims Jim 11,13,36 and Gem 1 of Group 2. Some of the samples were assayed and the results are shown in Appendix 3 herein.

Location and access

The easiest way to access the claims is to go south on the carcass road approximately 4.3 km from it's junction with the alaska highway and turn right onto a dirt road and travel about 800 m down a hill to Cowley creek thence across said creek and 500 m up a hill to an old pit which is the conjunction of the Sue 1 to 4 claims. The claims of Group 2 are about three claim lengths to the west.

Claim ownership

All of the claims are owned by Lobo Del Norte Ltd which is incorporated under the laws of the Yukon and has it's registeed office at 49 redwood St. Whitehorse Yukon Y1A 4B2.

Geology

The Whitehorse Copper Belt lies within the Whitehorse Trough which is part of the Intermontane Belt. The northwestern trending Trough is an Island-Arc Complex that ranges in age from upper Paleozoic through Jurassic. Within the Copper Belt, clastic and carbonate rocks of the Upper Triassic Lewes River Group and clastic rocks of the Lower Jurassic Laberge Group are the dominant rock types. The copper bearing skarns occur over a length of approximately 32 km along the western side of a Cretaceous diorite batholith of the Coast Plutonic Complex

Group 1

The skarns of this group, known as the Cowley Park deposit are calc-silicate type, and have little or no serpentine or magnetite and are rich in the silicate minerals; andradite, tremolite, wollastonite, actinolite, diopside, quartz and feldspar. This deposit is at the south end of the Copper Belt and is a steeply dipping 300 m tabular lens which is enclosed in a skarn on limestone-diorite contact (Teney, 1981). The massive garnet skarn of this deposit is cut by veins

containing bornite and chalcopyrite and veins containing quartz, chalcopyrite, bornite and molybdenite are also present.

Group 2

The skarns of this Group are the massive magnetite-serpentine type with disseminated bornite, calcocite and chalcopyrite mineralization. Other mineralization observed; diopside, actinolite, talc, serpentine, chlorite and garnet.

Program

The program for both Groups 1 and 2 consisted of the author and the periodic help of an assistant taking soil and rock samples from old workings, plugger chips, outcrops and float and submitting some of these for analysis. A 4x4 truck was used to get as far as Cowley creek and a Quad 4x4 to access the claims. A chain saw and plugger were used to clear some of the area and collect samples.

Conclusion

The overburden on both claim Groups should be stripped by a D 9 cat and ripper along with a trenching and sampling program to be completed with a view to processing 10,000 ton bulk samples on each of the claim Groups.

High to Ultra-high calcium carbonate limestone was found on Group 2 claims, specifically samples SC1 and SC2 on Jim 36 and Core and EN on the Gem 1 claim. All of these samples were clean limestone samples. The high grade makes this limestone suitable for making lime which can be used in the paper making industry as well as in the mining industry.



Barry Ernewein

REFERENCES CITED

- Morrison, G.
1981 Setting And Origin of Skarn Deposits in The Whitehorse Copper Belt, Yukon. Unpublished Ph.D (partial thesis), University of Western Ontario 1981.
- New Imperial
Mines Ltd.,
1970 Keewenaw, Gem, Bear Cub Surface plan
- Tenny, D.
1981; The Whitehorse Copper Belt, Mining Exploration and Geology (1967-1980). Yukon; Bulletin 1. Northern Affairs Program. Geology Section, Department of Indian and Northern Affairs.
- Watson, P.H.
1984 The Whitehorse Copper Belt - A Compilation; Exploration and Geological Services Division - Yukon, Indian and Northern Affairs, Canada, Open File, 1:25,000 scale map with marginal notes.

Appendix 1

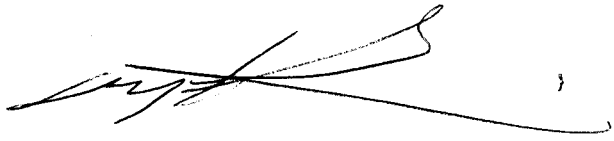
Review of expenditures

	Group 1	Goup 2
	days	
Geologist & assistant (including meals)	3@ \$400 = \$1200.00	4.5@400=\$1800
Truck	3@ \$75 = 225	4.5@75= 375.50
Quad 4x4	3@ \$ 50 = 150	4.5@50= 225
Plugger	3 @ 50 = 150	4.5@50= 225
Chain saw	3 @ 30 = 90	4.5@30= 135
Report & maps	450	400
Assays	<u>373.97</u>	<u>241.93</u>
Total expenditures	<u>\$2,638.97</u>	<u>\$3364.43</u>

Appendix 2

Qualifications of Author

B.Sc.(Geology),University of B.C.; 1992.
Underground miner, prospector, diamond drill crew chief for various
mining and exploration companies periodically since 1958.

A handwritten signature in black ink, appearing to read 'Barry Ernewein', written over a horizontal line.

Barry Ernewein.

Appendix 3

Assays



GEOCHEMICAL ANALYSIS CERTIFICATE

Lobo del Norte File # 9804929

49 Redwood St., Whitehorse YT Y1A 4B2 Submitted by: Barry Ernewein

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
F1	322	27496	<3	42	13.5	16	38	953	20.17	33	<8	<2	2	2	<.2	<3	125	11	3.75	.009	3	8	.14	3	.01	5	.20	.01	.01	124	501
F2	932	20368	14	17	16.4	6	7	1292	7.15	49	<8	<2	2	10	1.4	<3	126	19	8.51	.059	7	19	.05	1	.04	<3	1.12	.01	<.01	76	350
F3	1480	30111	7	25	19.1	9	13	2757	14.34	63	13	<2	3	2	1.7	<3	143	15	10.81	<.001	5	9	.09	5	.01	<3	.30	<.01	.01	432	511
F4	336	14594	3	16	7.0	5	8	1496	8.07	15	<8	<2	6	15	.3	<3	88	35	7.18	.001	2	16	.11	12	.05	<3	1.24	.04	.02	235	149
F5	573	16741	9	32	12.5	14	53	474	18.77	19	<8	<2	2	26	<.2	<3	60	13	1.54	.053	6	14	.08	2	.03	<3	.31	.01	.01	122	120
F6	778	34296	14	31	19.2	14	30	1618	16.99	34	<8	<2	2	4	.2	<3	170	17	6.42	<.001	4	8	.10	<1	.01	<3	.24	<.01	.01	392	540
F7	1678	31082	7	33	19.5	7	13	2808	16.54	75	19	<2	3	2	1.4	<3	150	17	11.76	<.001	5	10	.07	5	.01	<3	.33	.01	.01	208	687
F8	804	26877	4	37	14.8	16	35	1375	15.98	26	<8	<2	3	60	.5	<3	109	14	4.32	.033	6	13	.23	19	.03	<3	.37	.02	.02	269	320
RE P8	762	26584	<3	36	14.2	16	36	1365	16.39	29	<8	<2	3	59	.8	<3	113	14	4.25	.033	5	14	.23	16	.03	<3	.38	.02	.01	257	290
F9	2258	39589	15	30	24.1	15	38	1561	18.61	75	<8	<2	3	22	1.3	<3	215	13	6.98	.006	6	10	.11	<1	.01	<3	.35	.01	.01	287	480
F10	1699	28755	6	24	18.3	6	12	2623	14.02	64	19	<2	3	2	2.5	<3	141	13	11.41	<.001	5	10	.08	<1	.01	<3	.31	.01	<.01	410	525

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 1998 DATE REPORT MAILED: *Nov 16/98* SIGNED BY: *[Signature]* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Group 1



GEOCHEMICAL ANALYSIS CERTIFICATE

Lobo del Norte PROJECT HYLAND (BC) File # 9800897

49 Redwood St., Whitehorse YT Submitted by: BARRY ERNEWEIN

SAMPLE#	Au# oz/t
B 26301	<.001
B 26302	.001
B 26303	.009
B 26304	<.001
B 26305	.001

AU# - TOTAL SAMPLES ARE LEACHED WITH 1% CYANIDE FOR 24 HOURS.

- SAMPLE TYPE: SAND

DATE RECEIVED: MAR 20 1998

DATE REPORT MAILED: *March 31/98*SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS*Group 1*



WHOLE ROCK ICP ANALYSIS



Lobo del Norte (BC) File # 97-0485
706 - 2233 Allison Road, Vancouver BC V6T 1T7

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Ni ppm	Sr ppm	Zr ppm	Y ppm	Nb ppm	Sc ppm	LOI %	SUM %
BC	70.31	15.92	1.93	.51	1.85	5.08	2.39	.26	.09	.05	<.001	913	<20	354	154	13	11	<10	2.2	100.76
FLAT PIT 1	1.68	.72	.10	20.79	37.85	.07	.04	.01	.14	.02	.005	15	<20	238	11	<10	<10	<10	39.0	100.46
FLAT 2	6.51	.64	.05	4.35	48.47	<.01	<.04	.01	.06	.05	.002	7	<20	415	<10	<10	<10	<10	39.3	99.53
SC 1	.72	.61	.05	.70	56.32	<.01	<.04	<.01	.05	.02	<.001	12	<20	665	<10	<10	<10	<10	42.0	100.58
SC 2	2.52	.67	.40	1.45	52.47	<.01	.04	.01	.03	.25	.002	22	<20	733	<10	<10	<10	<10	41.9	99.83
RE SC 2	2.59	.67	.39	1.45	52.70	<.01	.04	.01	.03	.25	.001	25	<20	737	26	<10	<10	<10	42.0	100.22

.200 GRAM SAMPLES ARE FUSED WITH 1.5 GRAM OF LiBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3. OTHER METALS ARE SUM AS OXIDES.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 31 1997

DATE REPORT MAILED: Feb 10/97

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

group 2



ASSAY CERTIFICATE



Lobo del Norte File # 9803456
49 Redwood St., Whitehorse YT

SAMPLE#	Au** oz/t
J2 RX	<.001

AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK

DATE RECEIVED: AUG 11 1998

DATE REPORT MAILED:

Aug 25/98

SIGNED BY.....*C. Leong*.....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

group 2

APPENDIX 4

SAMPLE DESCRIPTION

Group 1

Sue Claims

Sample No

Description

Assayed

- P1 Calc- Silicate Skarn- drk brn gnt, diopside minor, pyr disseminated, chalco, minor brnte, flecks moly.
- P2 Calc- Silicate Skarn- light greenish streaks, brn gnt, minor wollastonite, chalco disseminated, minor flecks brnte, blebs moly.
- P3 Skarn-med brn gnt qtz veinlets containing moly, diss chalco, massive minor magnetite.
- P4 Garnet Skarn-brownish grn (epidote) blebs bnte.
- P5 Gnt Skarn (float)- brn to blk some massive magnetite, dissem chalco
- P6 Grnt Skarn- brn to blk gnt ,qtz veinlets with flecks of moly, chalco ,brnt minr.
- P7 Calc-Silicate Skarn with some banded grey blk Ls- gnt minor tremolite, chalco, rosette moly, diss pyr.
- P8 Calc- Sil Skn-brn to grn epidote /trem flecks chalco and brnte, diss pyr
- P9 Calc- Sil Skn- with bands of med grnd Ls, qtz veinlets with moly chalco flecks, some massive mag.
- P10 Gnt-Skn (float) - redish brn gnt, diss brnte and chalco with small blebs moly.

Not Assayed

- P11 L.s - white coarsely crystalline
- P12 Same
- P13 Same
- P14 L.s - greyish white med grnd

- P15 Pyritic Siltstone - light brn fine grnd, flecks of biotite, minor greenish grey L.s.
- P16 Pyritic Siltstone - brwn, fine grnd, with minor biotite.
- P17 Diorite - med to coarse grnd with qtz and hornblende.
- P18 same as P17 but also minor chalco flecks.
- P19 Diorite (qtz/hnbl type) - med grnd with flecks of chalco.
- P20 Diorite (qtz/hnbl) - med grnd.
- P21 to P23 sampled along contact diorite and siltstone with veinlets qtz containig blebs of moly and diss chalco and brnte.
- P24 Siltstone - med brn, fine grnd with minor flecks of brnte.
- P25 same as P24.
- P26 Siltstone/Limestone contact - buff Sltst and light grey Ls some calcite in cavities and flecks of moly.

Jim 29 claims

Assayed

- B26301 Sand light brn, fine grnd
- B26302 to B26305 same as B26301

Not Assayed

- R1 to R8 Sand light brn, fine grnd

A plugger in a chisel configuration was used to break up the rock samples whether they were taken from float or in place rock. No blasting was done and no blast holes were drilled. All of the skarn samples were heavy hard and from competant rock.

Group 2

Gem claims

Assayed

- C clean Ls white coarse grnd.

Core same

K same

ED same

Not assayed

D1 Diorite

D2 same

D3 same

D4 same

A1 Aplite - light grey/buff fine grnd, sugary texture, flecks of pyr

A2 same

Jim 36

Assayed

B.C. Granet coarse grnd (erratic ?)

Flt Pit 1 Clean Ls med gry to blk

Flat 2 Dolomitic Ls, white course grnd

SC1 same

SC2 same

Not assayed

B.C.2 Diorite flecks of pyr

B.C.3 same

Jim 11

Assayed

J2 Rx Granodyrite coarse grnd, flecks of pyr

Not Assayed

J1 Rx Granodiyrite coarse grnd, pyr flecks
J2 to J4 Ls- light grey med grnd
J5 to J8 Ls - more white than above and coarser grnd

Jim 13

Assayed

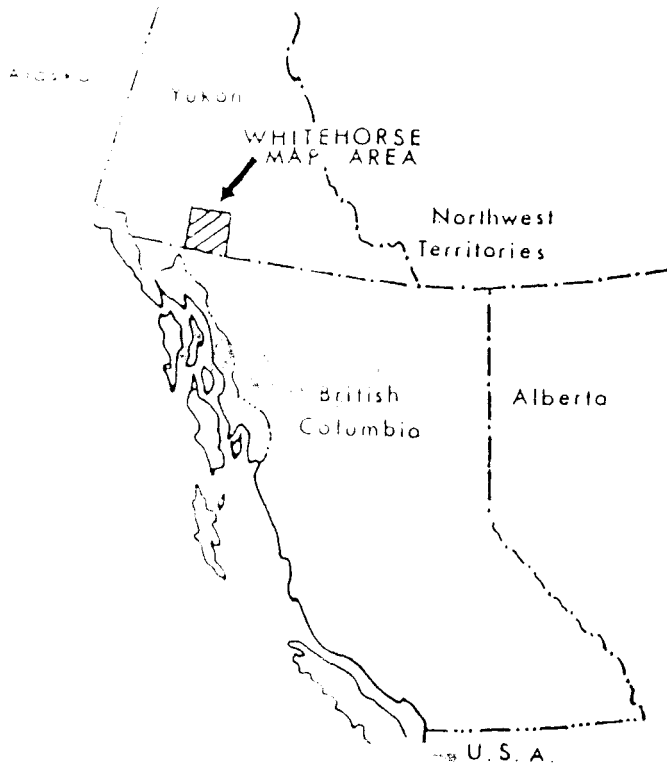
F11 Ls - light grey med grnd

Not assayed

F12 Ls massive white coarsely crystalline
F13 to F14 same
F15 to F16 same
J9 same

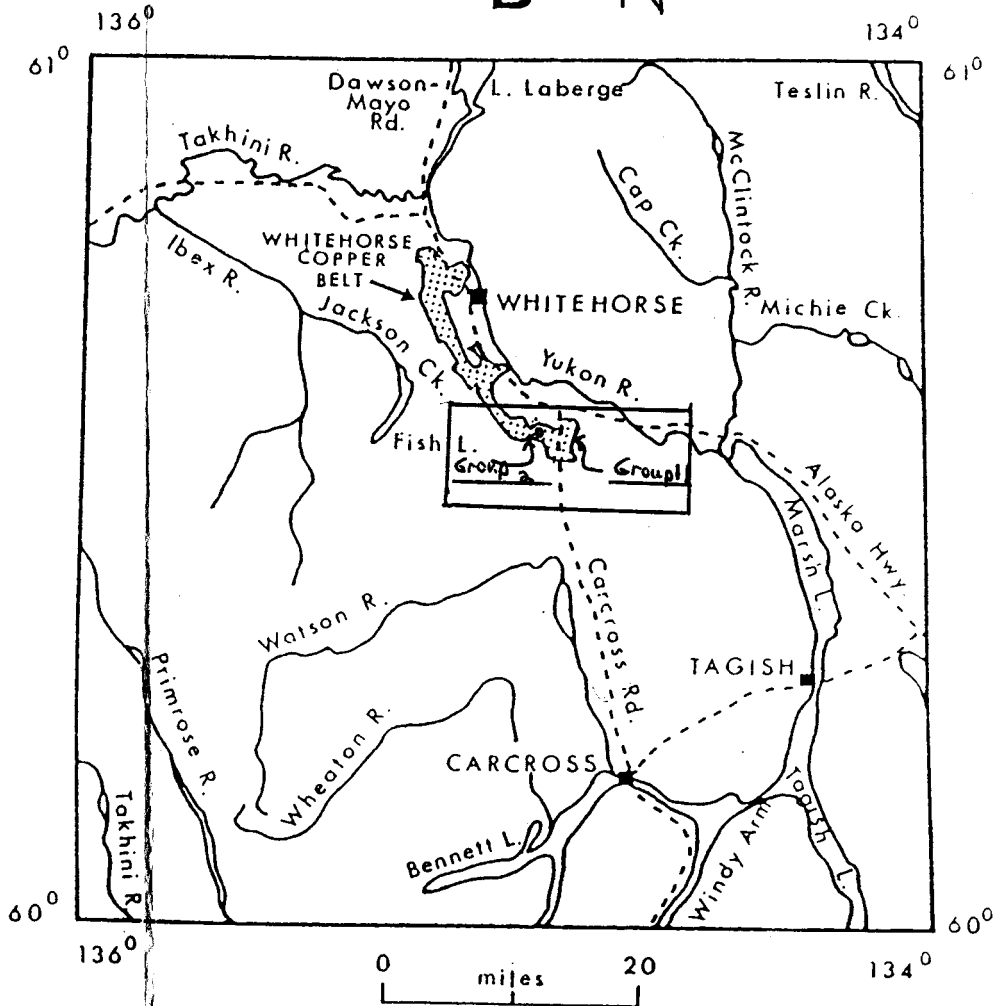
All group 2 samples taken with chisel on plugger.

A



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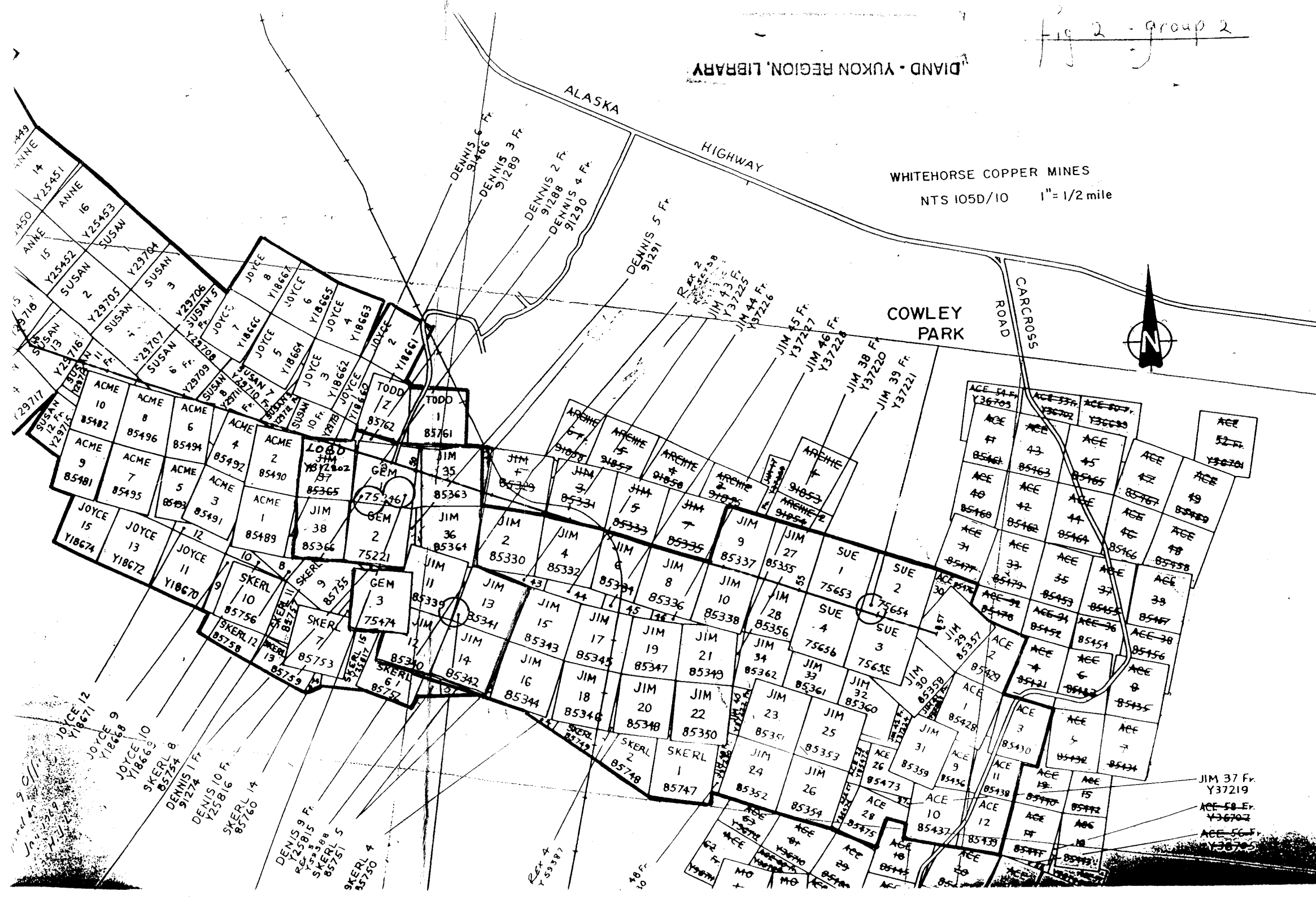
B



Location map. Whitehorse map area is adjacent to the British Columbia border in south central Yukon.

Major towns, roads, rivers and lakes in Whitehorse map area. The Whitehorse Copper Belt is a narrow elongate claim block west of Whitehorse and the Yukon River.

WHITEHORSE COPPER MINES
NTS 105D/10 1" = 1/2 mile



Y25451 ANNE 14
Y25452 SUSAN 16
Y29705 SUSAN 2
Y29706 SUSAN 3
Y29707 SUSAN 4
Y29708 SUSAN 5
Y29709 SUSAN 6
Y29710 SUSAN 7
Y29711 SUSAN 8
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Y29803 SUSAN 100

DENNIS 6 Fr. 91466
DENNIS 3 Fr. 91289
DENNIS 2 Fr. 91288
DENNIS 4 Fr. 91290
DENNIS 5 Fr. 91291

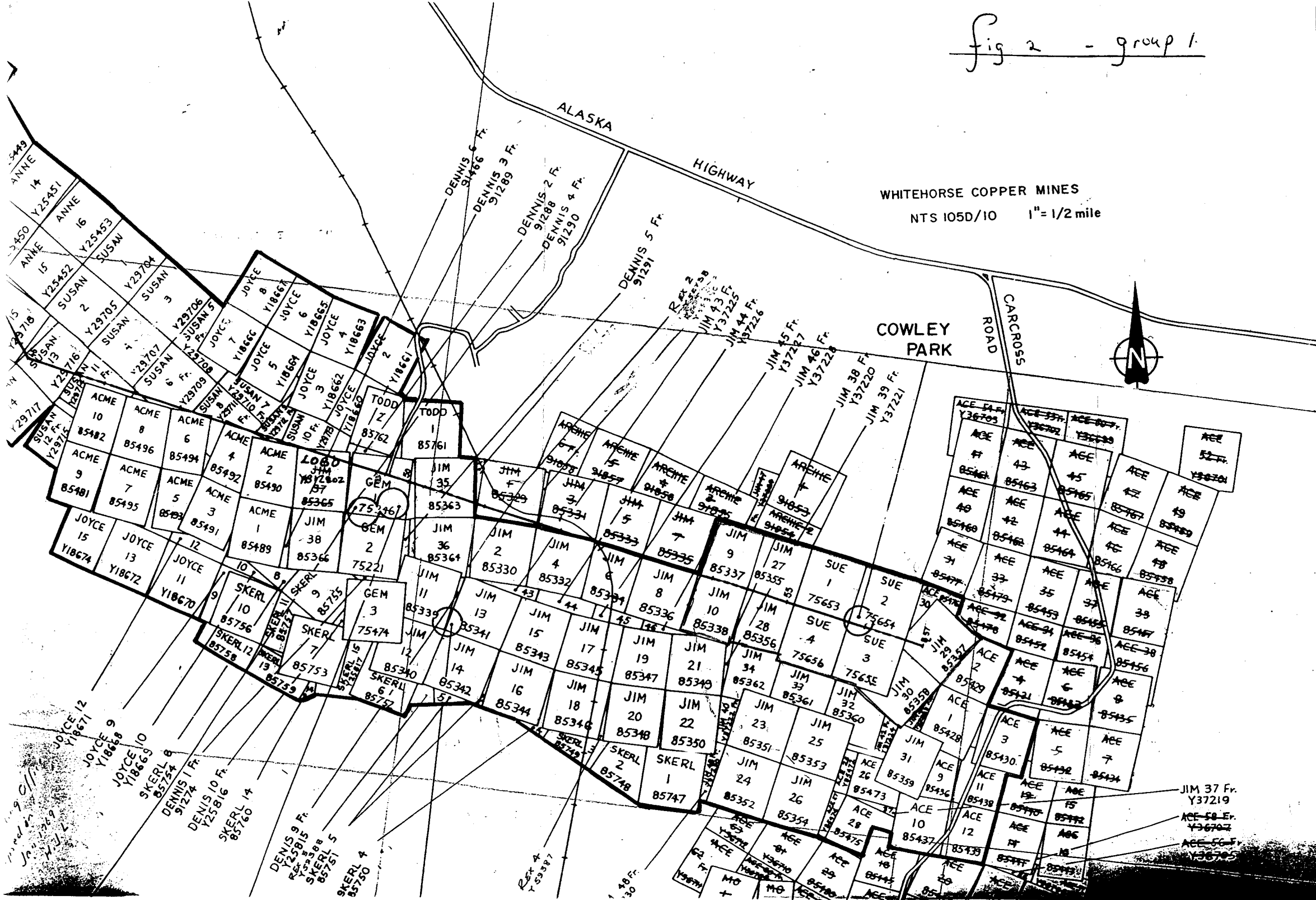
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COWLEY PARK

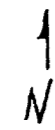
CARCROSS ROAD

JIM 37 Fr. Y37219
ACE 58 Fr. Y36702
ACE 56 Fr. Y36705

fig 2 - group 1



Sample map. Group 1.



SUE 1

SUE 2

Sue 2

ACE 30

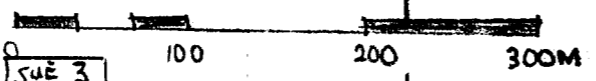
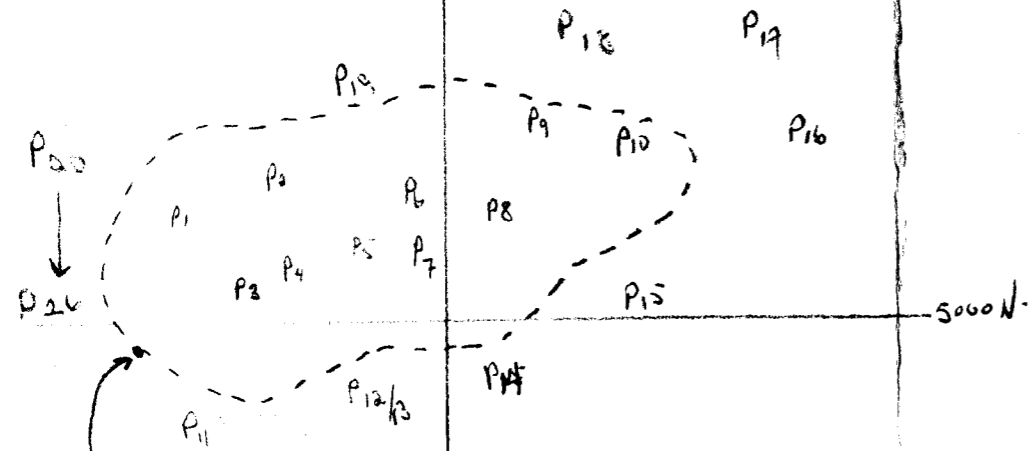
Jim 29

SUE 4

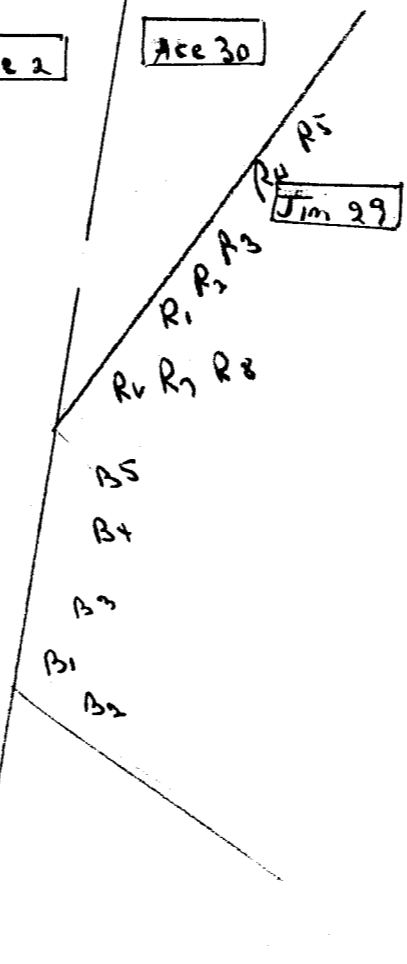
SUE 3

Sample Assayed - Sue claims
P1 - P10

Sample Not Assayed - Sue claims
P11 - P20

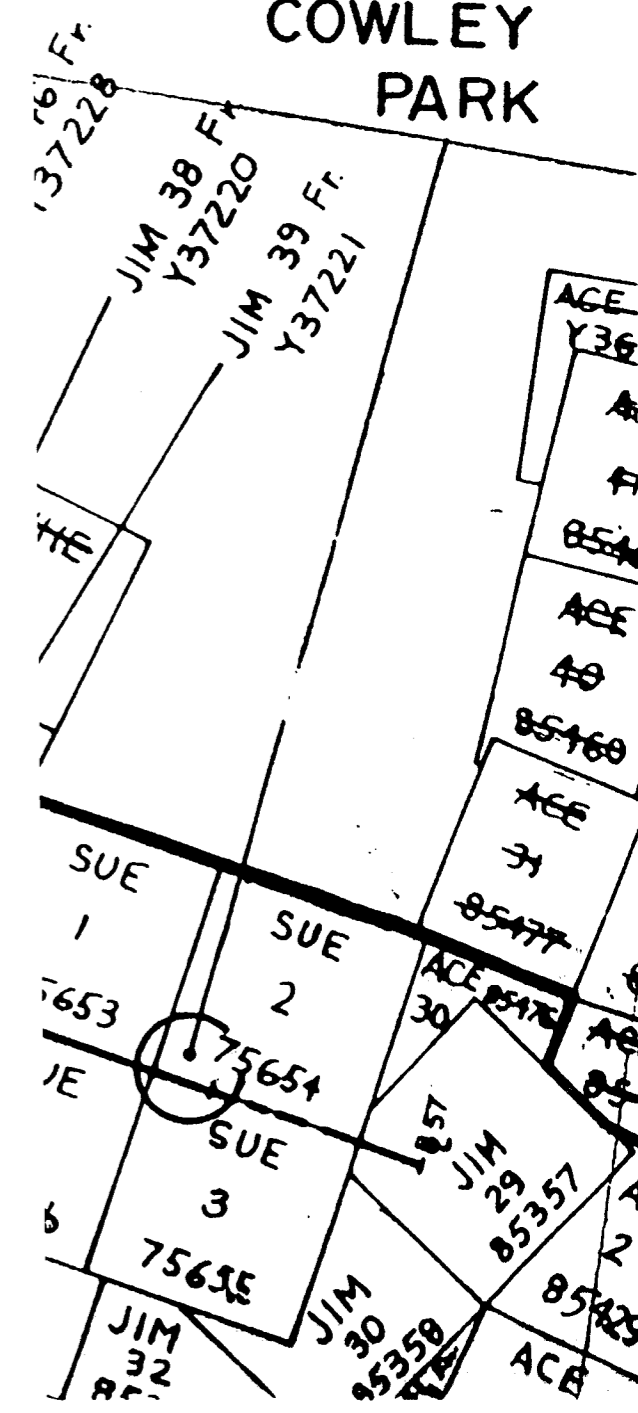


Jim 29
Soil samples Assayed
B 26301 - B 26305
Rx samples not assayed
R1 - R8



1" = 1/8 mi

COWLEY PARK



DIAND - YUKON REGION. LIBRARY

Fig-3 - group 1

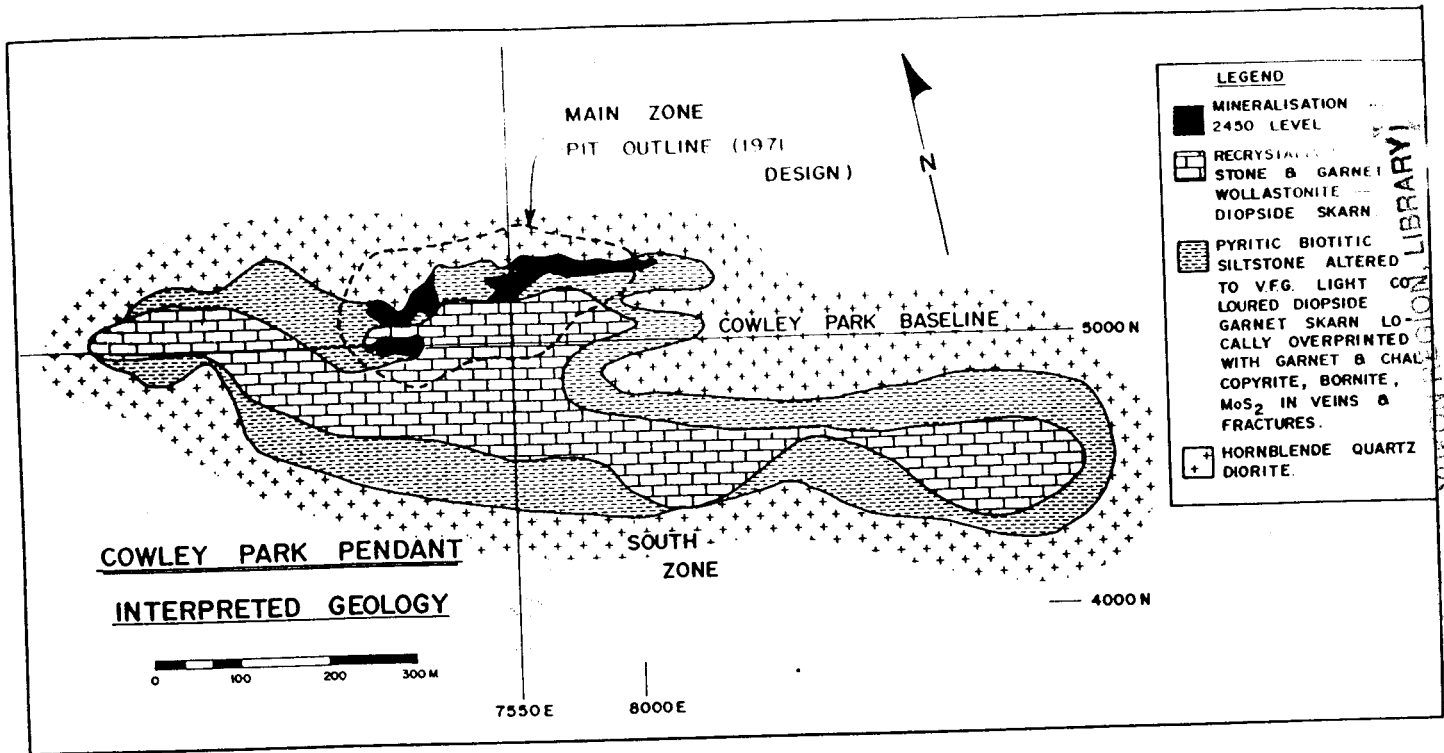


Figure 4. Geological plan of the Cowley Park roof pendant from company plans as reinterpreted by G. Morrison. Note that the Cowley Park South zone, which is the site of a moderately strong induced polarization anomaly, does not crop out at surface (i.e. 2450-2500' elevation).

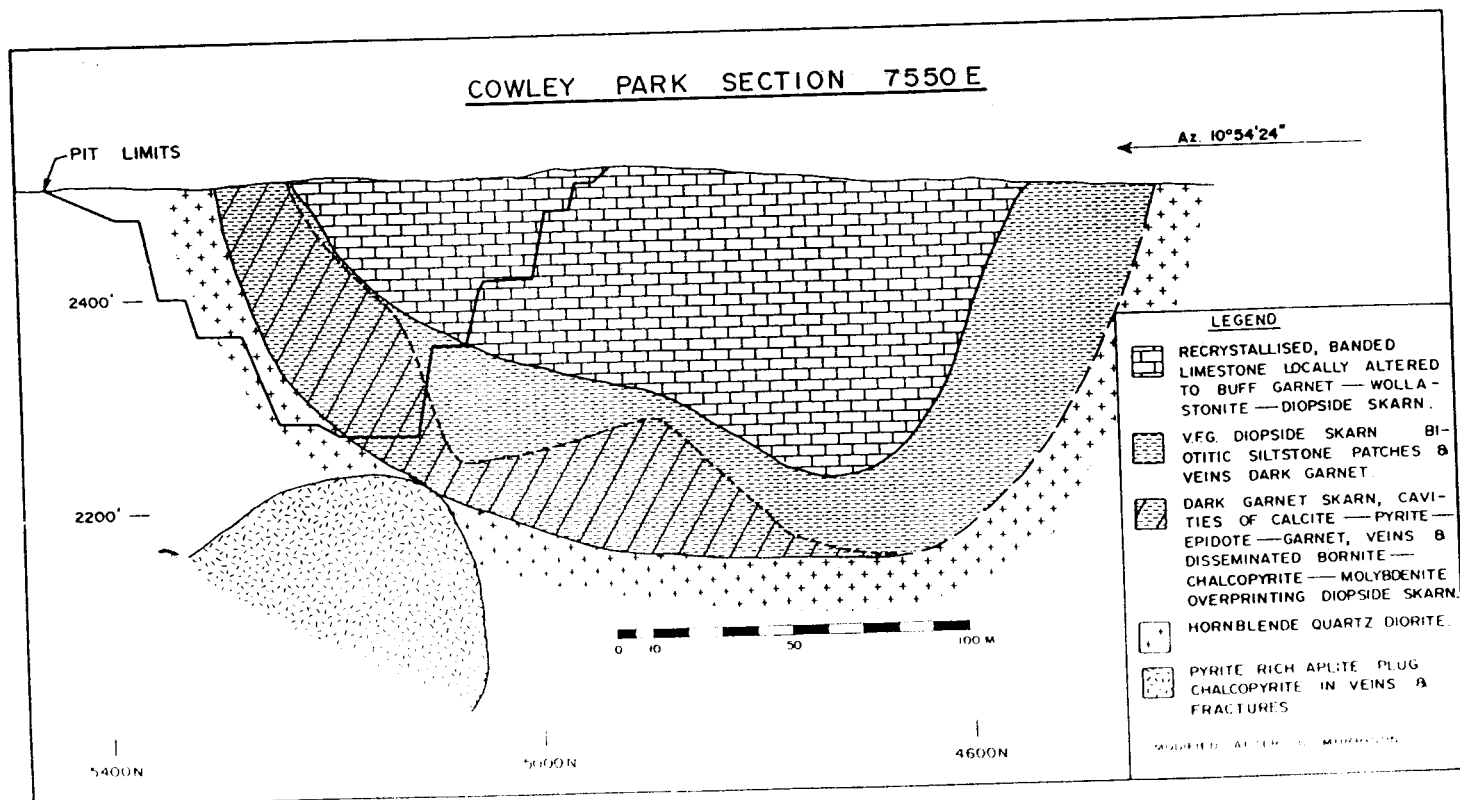
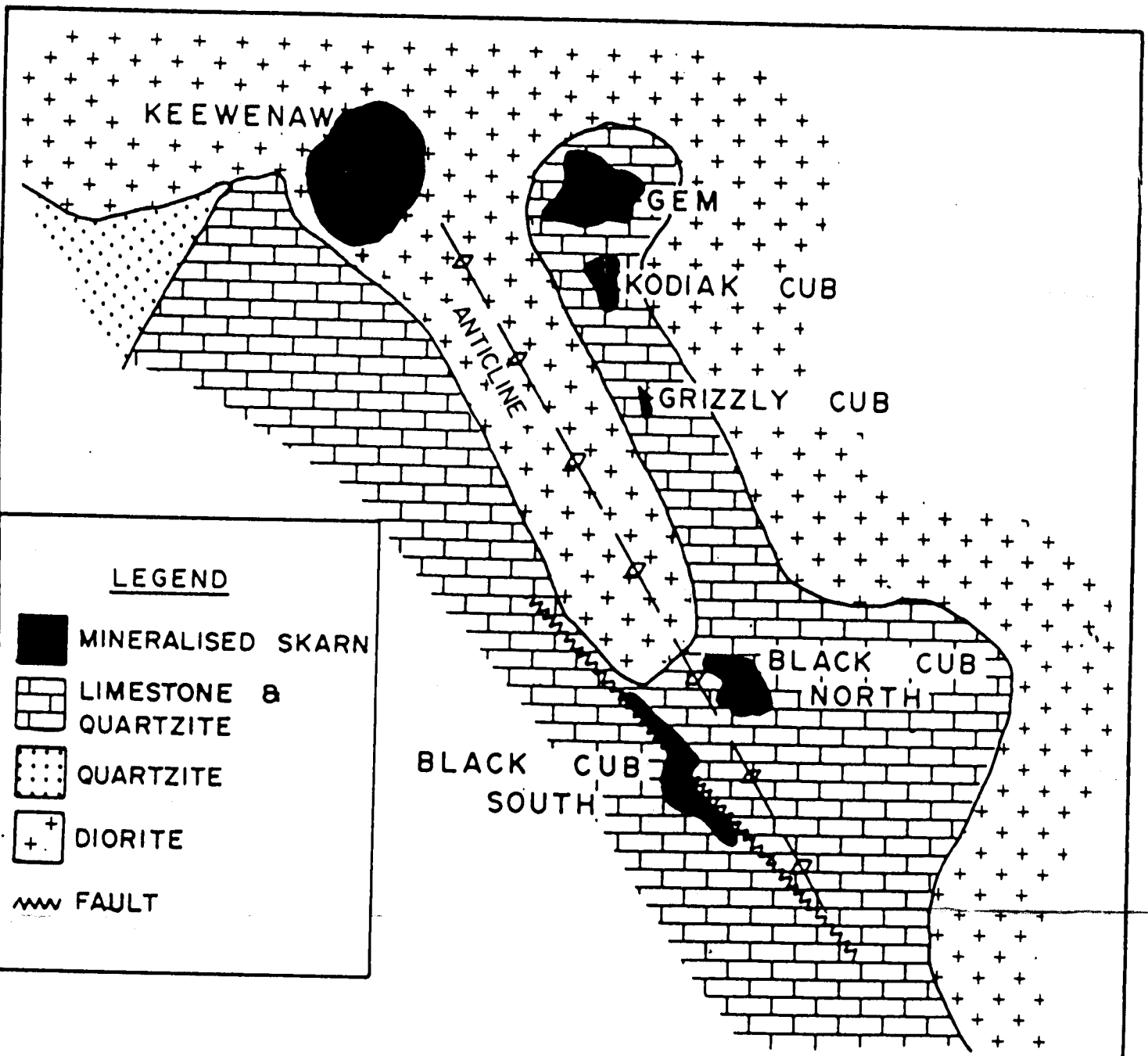


Figure 5. Geological cross-section of the Cowley Park main zone with limits of proposed (1979) pit design. The geology shown is as reinterpreted by G. Morrison.

group 1 fig 4.



GEOLOGICAL PLAN — GEM — BLACK CUB

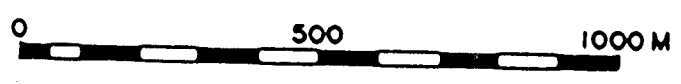
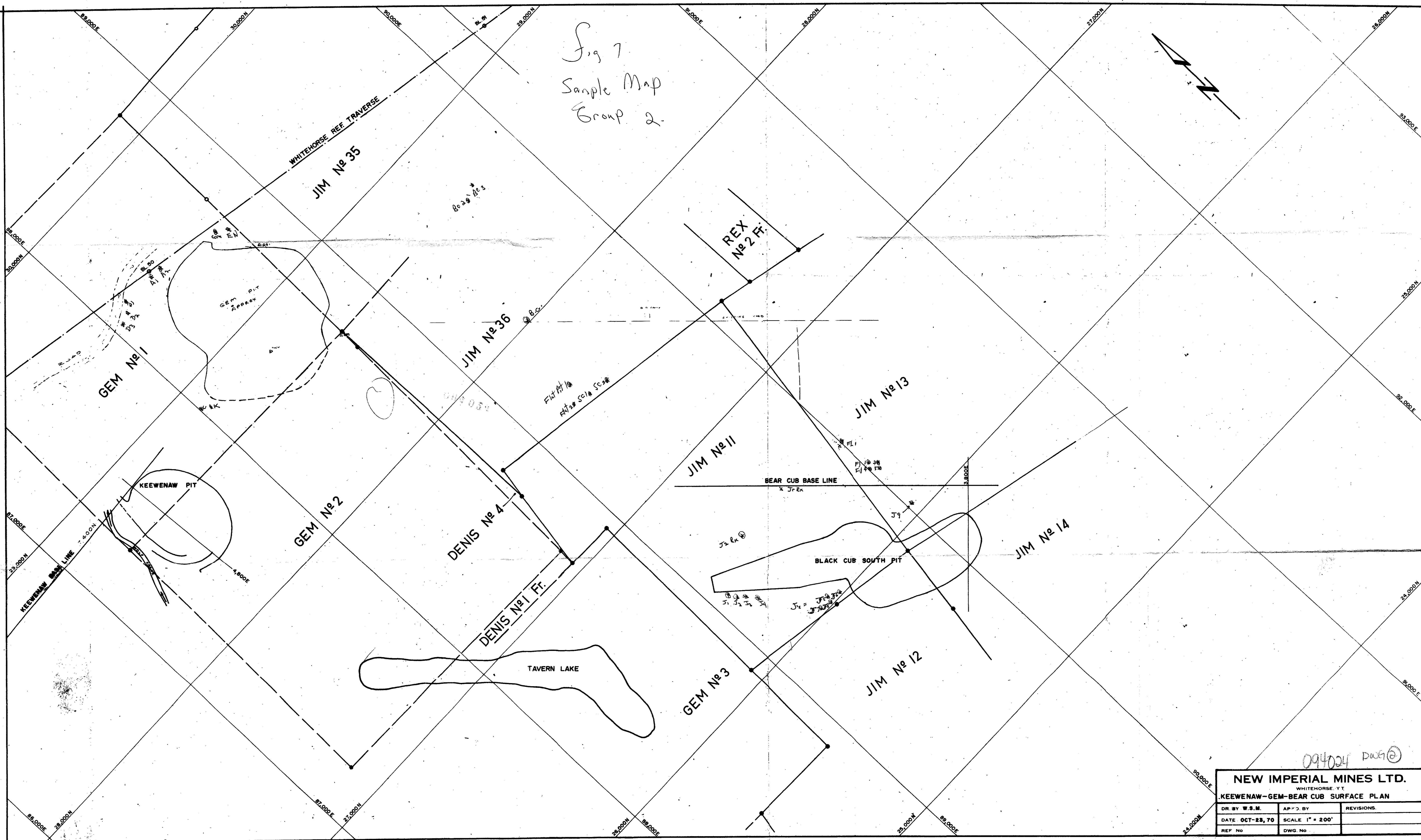
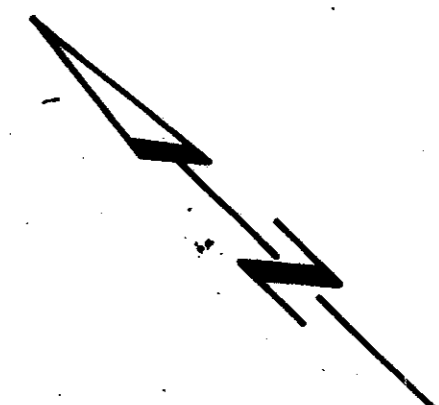


Fig 6

Fig 7
Sample Map
Group 2.



094024 DWG

NEW IMPERIAL MINES LTD.		
<small>WHITEHORSE, Y.T.</small>		
KEEWENAW-GEM-BEAR CUB SURFACE PLAN		
DR. BY W.S.M.	AP'D BY	REVISIONS
DATE OCT-28, 70	SCALE 1" = 200'	
REF No	DWG No	

