

LOG NO: 0627	RD.
ACTION:	
FILE NO:	

PROSPECT

TANGLE CLAIMS

1 - 4

OMINICA MINING DIVISION

BABINE LAKE DISTRICT

NTS MAP 93 L /15
Northeast Corner

DRIFTWOOD CREEK

UTM GRID CO-ORDINATES
OF LEGAL CORNER POSTS

656400 EAST 6089300 NORTH

LATITUDE 54' 56" LONGITUDE 126' 34"

OWNERS

DANIEL ETHIER
BOX 184
SMITHERS B.C.
VOJ 2NO
PH. (604) 847-2814

RALPH KEEFE
BOX 5
TELKWA B.C.
VOJ 2XO
PH. (604) 846-5638

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,082

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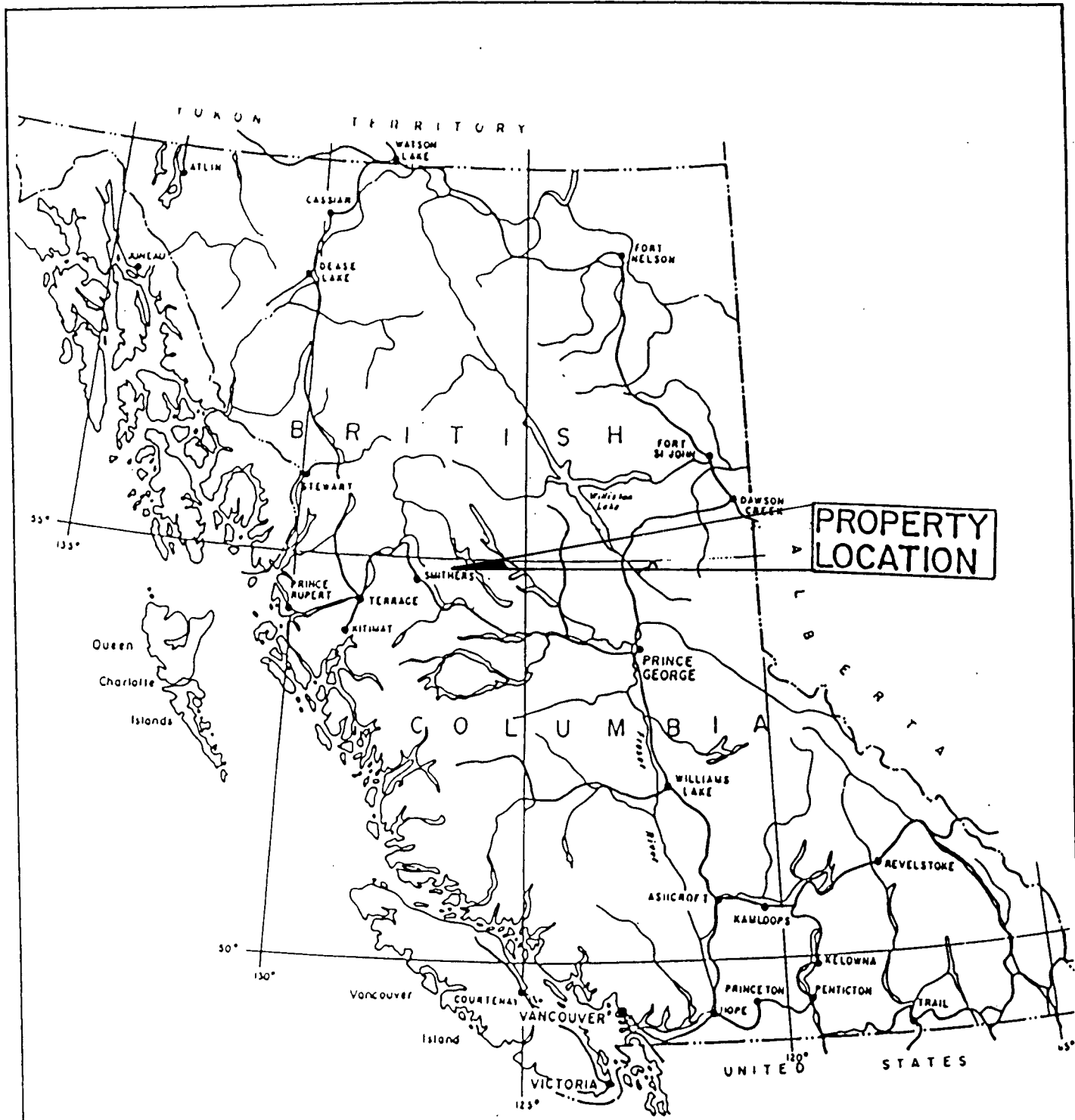
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LOCATION

The TANGLE CLAIMS are located in west central B.C. in the Omineca Mining Division. Driftwood creek map sheet 93 L / 15 , in the northeast corner of the map . Tanglechain Lake is the key landmark , the claims are southeast of the lake.

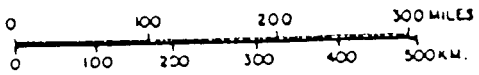
ACCESS

By road from the town of Smithers, north along the Babine lake rd. for 52 km. This is the junction for the Granilse rd. and at this point you are on the claims just south (150 m.) and west (150 m.) of the central Initial Posts. Continuing on the Smithers Landing rd. for another 700 metres north there is a side rd. heading east. Take this road which is in good repair for 500 metres. The showing is on the west side of the road.



PROPERTY
LOCATION

LOCATION MAP
TANGLE CLAIMS



SCALE AS SHOWN	DATE
	FIGURE NO.

PHYSIOGRAPHY

The claims are within the Babine Provincial Forest at the elevation of 3,000 feet.

Overburden is less than expected on any of the small hills, usually about 1 metre deep.

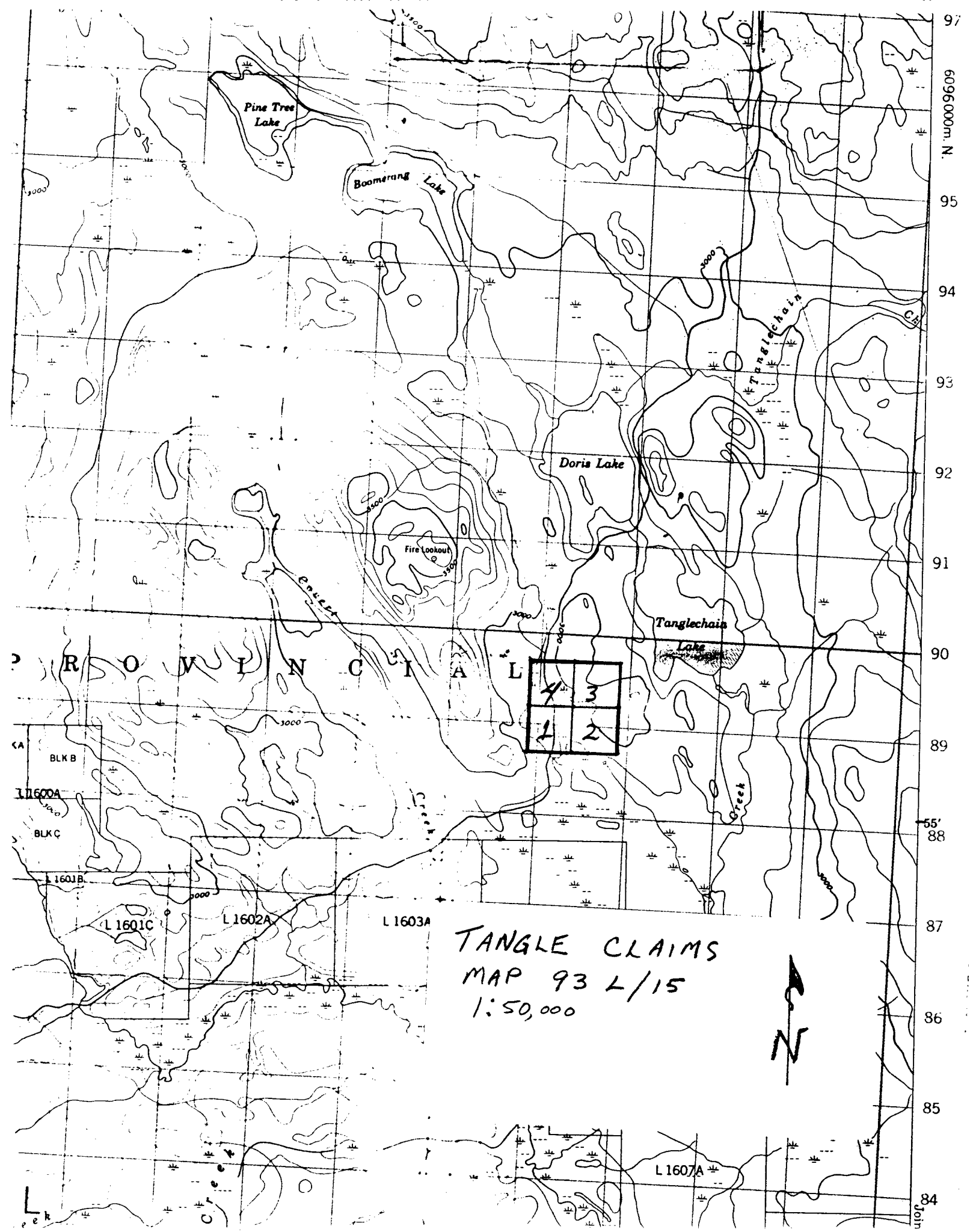
A good supply of water and wood exists. The wood is mixed forest of pine, spruce, balsam, hemlock, and poplar, birch, cottonwood. Water supply in the immediate vicinity is not recommended for drinking as it comes from a small swamp that separates the two main shows, however there should be no problem supplying the needs of a drill.

The area has had considerable logging activity in the past as well as presently, and the property and surrounding district is well networked with serviceable roads, most being currently maintained, with a few of the older logging sale access roads requiring a chain saw to clear debris.

Snow cover is between November and April and is normally 3 - 4 feet deep.

PROPERTY HISTORY

The authour believes the original discovery was made in the 1960's. The oldest claim tags seen were of Paul Kindrat 1967, called the G.K.



6096000m. N.
97
95
94
93
92
91
90
89
88
87
86
85
84
Join

4	3
1	2

TANGLE CLAIMS
MAP 93 L/15
1:50,000



Pine Tree Lake
Boomerang Lake
Doris Lake
Fire Lookout
Tanglechain Lake
Creeks
ROWIN-CITRAL
BLKB
L 1600A
BLKC
L 1601B
L 1601C
L 1602A
L 1603A
L 1607A

REGIONAL SETTING

The Babine Lake District hosts a number of porphory systems and has proven to be of economic importance in the past. GRANISLE and BELL COPPER are the most prominent mines in the district , located 25 km. to the west of the TANGLE. Approximately 10 km. northeast is the recent discovery called the FIREWEED.

The Fireweed has triggered new interest in this well mineralized area. It is not a porphory system, but a major shear breccia structure with significant mineralization located in a coarse grained sandstone. Principal commodities are Silver, zinc, lead, copper, with some gold.

PROPERTY SETTING

The TANGLE CLAIMS are situated in an Andesite - Basalt, feldspar porphory, and volcanic breccia systems. It is weakly sheared with intense carbonatization and has local weak silicification and quartz stringers. To the east of the main trench lapilli tuff in a strong fractured shear zone is strongly carbonatized. South of the main trench large zones of volcanic breccia exist, and to the north an andesite basalt agglomerate exists in outcrop.

Areomag survey indicates likely multiphase intrusive at depth , cut by a major NW structure. Rocks indicate island arc setting. Cu, Pb, Zn, Ba, mineralization is a positive indicator of hydrothermal fluids.

MINERALIZATION

Mineralization occurs as chalcopyrite, sphalerite, galena, tetrahedrite, and barite. Silver occurs in the main showing up to 5.4 oz/ton in grab samples. In the feldspar porphyry there is up to 1 % chalcopyrite, disseminated and in fractures.

The main trench has been cleared of overburden along side of the road and a quartz vein of 0.6 - 1 metre width is exposed. Blasting to a 1 metre depth has given a cross section of this shear vein. Strike 330' sub-vertical. The strike length is 80 metres. To the east 230 metres the feldspar porphyry as seen in the main trench is seen in the outcrop on a small ridge, disseminated chalcopyrite up to 1% with occasional spots of galena.

Discussion of Field Work

On June 29/89, S.W. and D.E. 2 men visited the property to locate any previous showings, and to begin the prospecting. The main showing area was found and reviewed. One man was left on site to sample the trench area and the second man began a regional reconnaissance in a 3 km area surrounding the claims via motorcycle.

Samples DE 467 - 470 are from this days work in the main trench, and represent grabs and channel samples.

DE 467

grab sample taken from the main trench of hygrade mineralization. Galena, chalcopyrite and pyrite within a qtz. vein in a feldspar porphyry.

Ag 35.9ppm, Cu 2207ppm, Pb 3924ppm, Zn 359ppm, Ca 11%

DE 468

same as above, 10 metres north,
grab sample taken from the main trench of hygrade mineralization. Galena, chalcopyrite and pyrite within a qtz. vein in a feldspar porphyry.

Ag 173.2ppm, Cu 5193ppm, Pb 5045ppm, Zn 377ppm, Ca 8 %

DE 469 A

channel sample taken from the main trench of hygrade mineralization, over 0.3 metres. Galena, chalcopyrite and pyrite within a qtz. vein in a feldspar porphyry.

Ag 22.2ppm, Cu 1098ppm, Pb 41496ppm, Zn 312ppm, Ca 6%

DE 469 B

channel sample taken from the main trench of hygrade mineralization, over 0.6 metres. Galena, chalcopyrite and pyrite within a qtz. vein in a feldspar porphyry. Ag 10.1ppm, Cu 292 ppm, Pb 24509ppm, Zn 374ppm, Ca 12%

DE 470

grab sample taken from the main trench of hygrade mineralization. Galena, chalcopyrite and pyrite within a qtz. vein in a feldspar porphyry. Ag 84.9ppm, Cu 3107ppm, Pb 19696ppm, Zn 470ppm, Ca 12%

The reconnaissance trip indicated a large andesite - basalt with contacts to a feldspar porphyry on the north, east, and south sides.

Aug. 3 /89 R.K. and D.E.

There are a number of old logging roads in this immediate vicinity and it was considered wise to walk these roads to look for obvious outcrop.

From the main show, SE approx. 150 metres, there are trenches made by machine that expose bedrock. This is Hazelton Volcanics (purple), a andesite - basalt feldspar porphyry volc. breccia, with locally strong carbonatization and moderate silicification, with some evidence of minor shearing. The geology indicates some size to the system and a pass was made through the bush. At the top corner of a logging sale, several trees at the edge have been blown down, the upturned roots exposing bedrock.

Blow Down Showing

89 Tan 01

from the landing east of the LCP, behind the swamp and uphill bearing approx. 070', porphyritic stock common along ridge, strike 045' 45'NW, elev. 3050 ft. Distance to the road and stream junction is 125 metres. Malachite and pyrite, much evidence of alteration. Grab.

89 Tan 02

20 metres from 01 east, chalcopyrite and galena and 1" of calcite. Ag 6.2ppm Cu 1122ppm, Pb 747ppm, Cd 385ppm.

89 Tan 03

30 metres east of 02, on top of the knob, Barite, cpy, pyrite, in fine disseminations, and fracture fills. (small scale), float from the immediate area. Ag 0.4ppm Cu 884ppm, Ba 2245ppm.

89 Tan 04

10-15 metres east of 03 into the bush, galena, malachite, chalcopyrite, ankorite. in relatively unaltered volcanics.

Ag 9.1ppm Cu 137 ppm, Pb 8418ppm, Cd 1982ppm.

89 Tan 05

20 metres north of 04, downhill, disseminated Pb and Cu in porphyritic volc., dense carbonates and limonite.

Ag 4.8ppm Cu 344 ppm, Pb 618ppm, Cd 132ppm.

89 Tan 06

5 metres east of 05, contact or dyke, dense black staining Mn?

89 Tan 07

20 metres north of 05, downhill, possible dyke material rock is pastel green with limonite blobs and vuggs, silicious, galena disseminated.

Ag 5.6ppm Cu 382 ppm, Pb 18748ppm.

89 Tan 08

Hygrade grab from main trench, Cu, Pb, Zn, tetrahedrite.

Ag 120.0ppm, Cu 11437ppm, Pb 35622ppm, Zn 660ppm, As 172

On Aug. 4 /89 a small grid was established to prepare for a self potential geophysical program. Two kilometres of line were put in, but not cut. Prospecting was carried out trying to determine strike length, and any parallel veins.

On Aug. 5 /89

A Self Potential Survey was conducted on 4 lines spaced 25 metres apart and stationed 25 metres.

From the Initial posts travel 100 metres west to the base line. North for 100 m brings you to line 2+100 N and station 0+000 E which is the base station.

A graph of the results is presented in this report.

Line	2+100 N	Direction of travel; east		
Station		reading	shift	actual
0+000 E	+1,-1, 0		0	0
0+025 E		.015	0	.015
0+050 E		.007	0	.007
0+075 E		.000	0	.000
0+100 E		-.004	0	-.004
0+125 E		-.025	0	-.025
0+150 E		.029	-.025	.004
0+175 E		.044	-.025	.019
0+200 E		.041	-.025	.016
0+225 E		.037	-.025	.012
0+250 E		.025	-.025	.000
0+275 E		-.002	0	-.002
0+300 E		-.010	0	-.010
0+325 E		-.004	0	-.004
0+350 E		-.006	0	-.006
0+375 E		-.001	0	-.001
0+400 E				

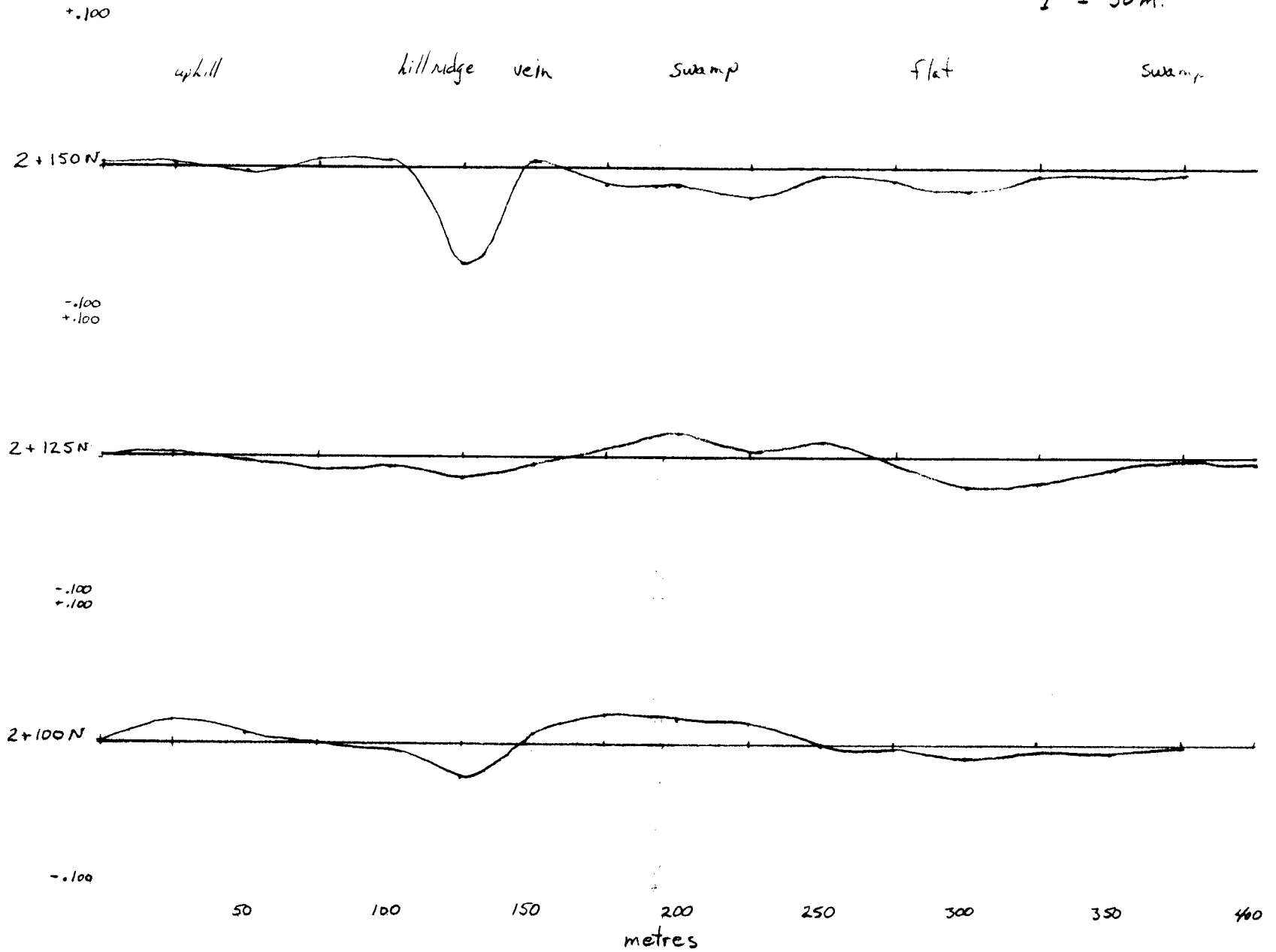
end of line

Line	2+125 N	Direction of travel; east		
Station		reading	shift	actual
0+000 E		.001	-.001	.000
0+025 E		.004	-.001	.003
0+050 E		.000	-.001	-.001
0+075 E		-.008	-.001	-.009
0+100 E		-.006	-.001	-.007
0+125 E		-.014	-.001	-.015
0+150 E		.010	-.015	-.005
0+175 E		.019	-.015	.004
0+200 E		.031	-.015	.016
0+225 E		.018	-.015	.003
0+250 E		.025	-.015	.010
0+275 E		-.014	.010	-.004
0+300 E		-.031	.010	-.021
0+325 E		-.029	.010	-.019
0+350 E		-.020	.010	-.010
0+375 E		-.011	.010	-.001
0+400 E		-.004	-.001	-.005

end of line

Line 2+150 N	Direction of travel; west		
Station	reading	shift	actual
0+000 E	.081	-.080	.001
0+025 E	.081	-.080	.001
0+050 E	.079	-.080	-.001
0+075 E	.085	-.080	.005
0+100 E	.084	-.080	.004
0+125 E	-.074	-.006	-.068
0+150 E	.010	-.006	.004
0+175 E	-.006	-.006	-.012
0+200 E	-.006	-.006	-.012
0+225 E	-.015	-.006	-.021
0+250 E	-.001	-.005	-.006
0+275 E	-.004	-.005	-.009
0+300 E	-.012	-.005	-.017
0+325 E	-.001	-.005	-.006
0+350 E	-.001	-.005	-.006
0+375 E	-.004	-.001	-.005
0+400 E			
end of line			

TANGLE CLAIM
SELF POTENTIAL
SURVEY
1989
1" = 50 m.



CONCLUSIONS AND RECOMMENDATIONS

The andesite basalt feldspar porphyry, volcanic breccia zone is showing weak shears and intense carbonatization. Weak silica alteration and qtz. veining carrying mineralization indicate we are seeing a large porphyry system that has not been sufficiently eroded to expose the more economic mineral zones. The property is covered with overburden which limits conventional prospecting.

A recommended program would be to run a I.P. survey and geochemical soil survey over the property to ascertain whether the copper values are consistent within the porphyry and whether sufficient gold values exist to warrant mining.

AUTHOUR'S STATEMENT

I, Daniel Ethier am a Prospector , with residence at
3644 3rd ave., Box 184, Smithers B.C. VOJ-2N0.

I have worked in exploration activities since 1979.

I have been an independent prospector since 1983.

I have worked as a prospector for Tom Richard's
Prospecting, 1986 -1988.

I am a graduate of the Advanced Prospecting Course of
Malaspina College 1987.

I am a graduate of the Petrology for Prospectors, 1990
Smithers, B.C. Instructor T.A. Richards

I am sole owner and operator of Ethier Exploration.

STATEMENT OF COSTS

July - August 1989

D. Ethier prospector, 4 days @ \$200./day	800.00	R.
Keefe prospector, 3 days @ \$200./day	600.00	
S. Watling assistant 1 day @ \$200./day	200.00	
Camp, supplies, 4 days @ 60./day	240.00	
Groceries 8 man days @ 21./day	168.00	
3/4 ton 4X4 truck 4 days @ \$55./day	220.00	
A.T.V. 3 days @ \$35./day	105.00	
Fuel	150.00	
Geochemical analysis	519.00	
Self Potential Geophysical equip. rental 2 days @ \$ 50.00/ day	100.00	
Report preparation, typing	200.00	
Drafting	200.00	

	3,502.00	

TOTAL APPLICABLE TO ASSESSMENT REPORT

for 5 years \$ 2800.00

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CERTIFICATE OF ANALYSIS

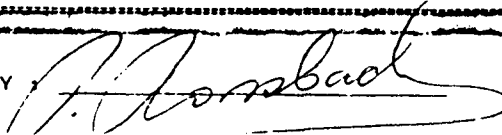
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British Columbia, Can. V5B 3W1
Ph: (604)299-6910 Fax: 299-6252

TYPE OF ANALYSIS : ICF

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PRE FIX	SAMPLE NAME	PPH MO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CO	PPH NM	I FE	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	PPH V	I CA	I P	PPH LA	PPH CR	I MG	PPH BA	I TI	PPH B	I AL	I NA	I SI	PPH M	PPH BE
A	89-TAN-1	1	262	106	90	1.9	1	3	292	1.95	11	5	ND	ND	2	1	2	2	32	0.17	0.06	5	16	0.21	602	0.02	32	0.66	0.05	0.03	1	1
A	2	1	1122	747	123	6.2	1	9	1118	1.94	46	5	ND	ND	14	385	2	2	44	2.30	0.08	9	23	0.12	396	0.01	85	0.40	0.03	0.03	4	1
A	3	1	684	23	148	0.4	2	6	1320	2.48	15	5	ND	ND	57	5	3	5	53	1.65	0.08	8	13	0.35	2245	0.02	48	0.72	0.02	0.03	5	1
A	4	1	137	3418	388	9.1	2	15	2070	2.07	33	5	ND	10	31	1982	5	5	28	5.31	0.06	6	20	1.47	328	0.01	70	0.18	0.02	0.03	4	1
A	5	1	344	618	316	4.8	2	16	1996	2.87	99	5	ND	ND	23	132	7	2	30	4.44	0.07	6	15	0.79	518	0.01	37	0.27	0.04	0.03	7	1
A	6	1	5	26	15	0.1	3	4	898	1.14	10	5	ND	ND	4	7	2	12	4	0.23	0.01	14	39	0.02	119	0.01	49	0.23	0.02	0.03	1	1
A	7	1	382	18748	142	5.6	1	1	1406	1.87	2	5	ND	ND	19	1	2	16	5	2.01	0.03	11	13	0.62	226	0.01	52	0.25	0.02	0.03	1	1
A	89-TAN-8	1	11437	35622	660	120.0	1	1	3505	3.72	172	5	ND	ND	77	16	149	3	7	10.80	0.03	2	5	2.21	193	0.01	113	0.10	0.02	0.01	1	1
A	89-DE 460	3	106	583	200	1.3	17	29	6190	5.86	43	5	ND	ND	72	3	8	28	58	8.52	0.09	12	23	1.22	71	0.01	673	0.58	0.02	0.04	7	2
A	466	2	59	259	236	0.9	12	8	1395	1.86	32	5	ND	ND	47	3	8	34	37	4.92	0.04	6	30	1.31	423	0.01	24	0.30	0.01	0.04	9	1
A	467	1	2207	3924	359	35.9	5	8	3046	2.65	65	5	ND	ND	84	7	92	22	30	11.60	0.03	7	12	2.77	260	0.01	47	0.23	0.01	0.02	2	1
A	468	1	5193	5045	377	173.2	3	4	2636	2.40	96	5	ND	ND	62	7	52	2	22	8.21	0.04	4	15	2.18	414	0.01	38	0.25	0.01	0.02	1	1
A	469A	1	1098	41496	312	22.2	1	3	2345	2.41	2	5	ND	ND	35	2	22	25	12	6.32	0.06	2	7	1.87	160	0.01	95	0.33	0.05	0.02	1	1
A	469B	1	292	24509	374	10.1	1	6	4068	3.43	2	5	ND	ND	58	3	2	4	7	12.57	0.02	5	10	3.53	634	0.01	57	0.17	0.03	0.01	1	1
A	89-DE 470	1	3107	19696	470	84.9	3	7	3991	3.51	74	5	ND	ND	70	7	59	25	13	12.62	0.03	7	9	3.22	817	0.01	53	0.18	0.04	0.02	1	1
A	SI																															
A	SI																															
A	89-6-599R	1	1867	163	281	25.7	4	8	2147	2.47	57	5	ND	ND	41	5	40	2	41	5.36	0.05	4	28	1.46	547	0.01	45	0.30	0.02	0.02	7	1
A	600R	1	81	265	80	0.3	1	1	881	0.75	2	5	ND	ND	164	1	2	2	5	0.03	0.01	1	14	0.02	3364	0.01	47	0.12	0.01	0.01	1	1
A	601R	1	43	139	300	0.4	4	12	2903	3.39	25	5	ND	ND	38	3	9	30	50	4.74	0.11	12	11	0.49	1427	0.01	33	0.42	0.01	0.04	12	1
A	602R	1	149	227	153	1.5	2	7	1504	2.58	17	5	ND	ND	16	1	5	12	43	1.56	0.10	9	15	0.36	819	0.03	37	0.48	0.02	0.03	6	1
A	603R	1	27	4	129	0.1	3	13	2091	5.27	11	5	ND	ND	5	1	4	14	156	0.20	0.08	8	5	0.81	258	0.07	21	1.17	0.04	0.03	3	2
A	604R	1	18	15	17	0.1	4	3	2052	1.41	34	5	ND	ND	16	1	4	34	13	0.74	0.03	43	49	0.17	478	0.01	29	0.19	0.05	0.04	7	1
A	605R	1	1702	7	181	0.4	1	3	726	2.74	2	5	ND	ND	5	1	2	2	71	0.22	0.10	7	8	0.22	439	0.02	39	0.64	0.06	0.02	1	1
A	606R	1	113	16	162	4.3	2	17	1097	1.93	26	5	ND	ND	3	1	2	2	43	0.19	0.10	5	18	0.40	1433	0.01	27	0.78	0.02	0.03	1	1
A	607R	1	42	65	81	2.2	1	8	1788	2.60	30	5	ND	ND	11	3	3	2	35	3.17	0.11	8	16	0.41	1054	0.02	28	0.33	0.02	0.03	6	1
A	608R	1	2	2	54	0.2	2	3	955	2.27	4	5	ND	ND	11	1	2	2	13	0.56	0.03	1	23	0.29	233	0.01	18	0.24	0.03	0.03	1	1
A	609RA	1	127	116	703	1.4	5	25	3058	4.84	24	5	ND	ND	65	103	4	12	26	9.74	0.03	11	25	2.51	2124	0.01	7	0.13	0.04	0.03	4	1
A	89-6-609RB	1	38	35	76	0.9	2	4	806	2.96	9	5	ND	ND	3	6	2	13	42	0.16	0.08	10	9	0.05	76	0.05	22	0.35	0.02	0.03	3	1
A	TANGLE CH 93L15	1	2568	26185	316	43.2	1	6	2295	2.79	13	5	ND	ND	39	4	31	20	25	6.21	0.08	5	10	1.59	146	0.01	71	0.28	0.02	0.03	2	1

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TYPE OF ANALYSIS : GEOCHEMICAL

PAGE # : 1

PRE FIX	SAMPLE NAME	FPB Au
A	89-TAN-1	5
A	2	5
A	3	5
A	4	5
A	5	5
A	6	5
A	7	5
A	89-TAN-8	5
A	89-DE 460	20
A	466	5
A	467	10
A	468	5
A	469A	5
A	469B	10
A	89-DE 470	5
A	89-G-599R	5
A	600R	5
A	601R	5
A	602R	5
A	603R	5
A	604R	5
A	605R	5
A	606R	5
A	607R	5
A	608R	5
A	609RA	5
A	89-G-609RB	5
A	TANGLE CH 93L15	5

CERTIFIED BY : 