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REPORT ON
TOUGH OAKS, BWINABY, AND GLYNNE HILL
MINERAL CLAIMS, BROKEN CREEK
OSOYOOS, MINING DIVISION B.C.

FOR

MR. CHARLES MARSHALL
4255 CHARLES STREET
NORTH BURNABY B.C.

BY

G. C. SINGHAI, P. ENG.

NOVEMBER 23, 1976

MINERAL RESOURCES BRANCH ASSESSMENT REPORT NO. _____
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MAPS.

Location Map

#1 General Geological Map with Location of Chip Samples, Soil
and Silt Samples

in back pocket.

SUMMARY

22 mineral claims of Mr. Charles Marshall are located about 33 miles West of Penticton on the Broken Creek, in the Osoyoos Mining Division, B.C. The property overlies the Hedley formation which is composed of quartzite, cherty quartzite, argillite, limestone, breccia and tuff of Triassic age and intruded by granite, granodiorite of post Triassic age. The Hedley formation are intruded by basic dykes and these dykes carry the mineralization of pyrite, pyrrhotite, arsenopyrite, gold, scheelite and nickel. The chip samples of mineralized zone, silt samples of creeks and at random soil samples assay results are encouraging. Therefore detail geological mapping, systematic soil and silt sampling is warranted.

REPORT ON GOLDEN TOAD
TOUGH OAKS, BWINABY,
AND GLYNNE HILL
MINERAL CLAIMS, BROKEN CREEK
OSOYOOS MINING DIVISION, B.C.
FOR
MR. CHARLES MARSHALL

INTRODUCTION

This report is on 22 mineral claims which are located about 33 miles West of Penticton and 8 miles North of Nickel Plate Lake on the Broken Creek in the Osoyoos, Mining Division, B.C. It is prepared at the request of Mr. Charles Marshall of 4255 Charles Street, North Burnaby, B.C. Mr. Marshall is an owner of these claims.

This report is based on the personal visit to the property during the period of August 30, to September 5, 1976, and examination of surface showings and old workings, chip sampling, soil and silt sampling and general geological mapping of claims, and information provided by Mr. Marshall. The author was accompanied by Messrs. Marshall and Donovan. Mr. Marshall started working on the property from July 15 to September 6, 1976. During this period he worked on the access road and cut 3 line miles of lines. The author also referred a geological map 628A prepared by Mr. H.S. Bostock in 1927 and published by G.S.C. in 1941.

PROPERTY AND OWNERSHIP

The property consists of 22 mineral claims which are located on the Broken Creek and about 33 miles West of Penticton, in the Osoyoos Mining Division, B.C. These claims are as follows.

<u>Name of Claims</u>	<u>Record Nos.</u>	<u>Expiry Date</u>
Golden Toad	8994	September 10, 1976
Tough Oaks 2-12 (incl)	8995-9005 (incl)	September 10, 1976
Glynne Hill 1-4 (incl)	17764-17767 (incl)	October 13, 1976
Bwinaby 1-6 (incl)	17521-17526 (incl)	October 11, 1976

These mineral claims are in good standing and located in accordance with the Mineral Act of the Province of British Columbia.

LOCATION AND ACCESSIBILITY

The property is located about 33 miles West of Penticton and 8 miles North of Nickel Plate Lake, on the Broken Creek, in the Osoyoos Mining Division, B.C. It is centred about 49°27'17" North latitude and 119°57'44" West longitude.

The property is accessible by about 45 miles gravel road in a four wheel drive vehicle from Penticton. This road can be altered in to all weather road. It is also accessible by helicopter from Penticton. The main supply can be available from Penticton. The Broken Creek runs Northwest and Southeast through the Western part of the property and there are other tributaries of Broken Creek that run through the property and can provide enough water for exploration.

TOPOGRAPHY, VEGETATION AND CLIMATE

The property is located on the Southwest slope of the Mount Brent which is about 3 miles Northeast of the area. The topography of the area is gentle. The elevation varies from 5600 feet to 6500 feet in the area.

The growth of coniferous forest of fir, hemlock and cedar is moderate, and timber may have commercial value.

The climate of the area is moderate for the greater part of the year. Rain fall is less than on the coast and part of the summer is dry. The winter is moderate and temperature rarely goes below freezing. The snow fall is fairly heavy but the exploration can be carried out throughout the year.

PROGRAM

During the visit to the property on August 30 to September 5, 1976 the following program was conducted:

1. Number of traverses were taken in order to study the general geology of the area outcrops are mapped. Studied the aeromagnetic map No. 8520G, prepared by Geological Survey of Canada and published in 1973.
2. During traverses soil samples, silt samples from creeks and chip samples from mineralized zone were collected.
3. Old workings were examined and mineralized sections were sampled.
4. Mr. Marshall repaired a 4 miles of access road from property to Penticton and cut four line miles of lines during the period of July 15 to September 6, 1976.

HISTORY AND PREVIOUS WORK

This area is active since the early days of the nickel plate gold mine at Hedley which is about 20 miles west of the property. The old prospectors and previous owners had driven a number of short adits and cut number of pits, to expose mineralized zones. In the early nineties when the Golden Zone Mine, which is about a mile S.W. of the area, started producing gold this area became more active, but this mine was closed due to high arsenic content in the ore and the whole area became inactive.

Mr. Marshall did some prospecting and opened some pits, particularly wheel barrow pits, and exposed a very thin gold bearing quartz vein, and some tungsten mineralization along olivin and pyroxinite dykes in the area.

GEOLOGY

The geological map No. 682 A prepared by Mr. H. S. Bostock of the Geological Survey of Canada in 1927, and published in 1941, indicates that the area overlies the Hedley formation which is composed of quartzite, cherty quartzite, argillite, limestone, breccia and tuft of Triassic age and intruded by granite and granodiorite of post Triassic age.

Ninety percent of the area is covered by glacial drift and out crops are noticed along creeks and slopes of hills. The area mostly overlies the Hedley formation which consists of recrystallized limestone and skarn. Skarn is formed along the contact zone of granite and granodiorite.

These formations are intruded by the dykes of diorite, gabbro, pyroxinite and dunite which are also post Triassic age but older than granite and granodiorite. The dip and strike of these formations are variable. The post Triassic granite and granodiorite are light grey to pinkish grey in colour and medium to coarse grained.

MINERALIZATION

Most of the mineralization occurred along fractures and dykes of diorite, gabbro, pyroxinite and dunite. In Tough Oaks #12, 10 and 8 the mineralization of pyrite, pyrrhotite, minor chalcopyrite and arsenopyrite is disseminated. The occurrence of scheelite is noticed along dunite, pyroxinite and gabbro dykes on Tough Oaks #4, Glynne Hill #3 and 4 mineral claims. These dykes also carry some value of gold and nickel.

A quartz vein of a quarter inch thickness is exposed in wheel barrow pit on claim Tough Oaks #8 which carries some value of gold.

SAMPLING

The author had collected the chip samples of the mineralized zones, silt from creeks and random soil samples. Locations of these samples are marked on the map and assay results are given in Appendix I and II.

CONCLUSION

The property which is discussed about is in a favorable geological environment and structure. The Golden Zone mine and Nickel Plate mine were in the same geological environment. The mineral occurrence of any significance is not found yet but the previous work and present chip sampling, soil and silt sampling assay results are encouraging.

Therefore, detail geological mapping and soil and silt sampling should be undertaken.

Respectfully submitted



Dated: November 23, 1976

562 Clearwater Drive
Richmond, B.C.

CERTIFICATION

I, Gyan Chand Singhal of 562 Clearwater Drive, Richmond, B.C.
do hereby certify that:

1. I am a member of the Association of Professional Engineers of British Columbia since 1969 and member of Canadian Institute of Mining and Metallurgy since 1970.
2. I am a post graduate in Applied Geology from the University of Saugor, Sagar, M.P. India, and have been practicing my profession since that time.
3. I was teaching in the University of Saugor, Sagar and Ravishankor University, Raipur in India and practiced my profession in India, Canada, U.S.A., West Indies, Mexico and Peru.
4. I have no interest either directly or indirectly in the property described herein or any other properties of Mr. Marshall.



Dated at:

562 Clearwater Drive,
Richmond, B.C.

November 23, 1976



APPENDIX - 1

GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.
 1001 EAST PENDER ST., VANCOUVER, B.C., CANADA. V6A 1W2
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:
 MR. J. SINGHAI
 562 Clearwater Drive,
 Richmond, B.C.

CERTIFICATE OF ASSAY

No: 7609-0753A DATE: Sept. 20/76

We hereby certify that the following are the results of assays on: **Soil**

MARKED	GOLD	SILVER	Copper	Lead	Zinc	Nickel	Arsenic	Molybdenum
	XXXXXXXXXX	XXXXXXXXXX	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Mo (ppm)
<u>E-41147</u>	Au(ppm)	Ag(ppm)						
CS - 1	0.01	-	-	-	-	-	37	-
CS - 2	0.01	-	-	-	-	-	22	-
CS - 3	0.01	1.0	70	-	-	-	40	-
CS - 4	0.01	0.6	15	-	-	-	5	-
CS - 5	0.01	0.8	37	-	-	-	37	-
CS - 6	0.01	0.9	25	-	-	-	12	-
CS - 7	0.01	1.0	29	-	-	-	22	-
CS - 8	0.01	0.8	24	-	-	-	10	-
CS - 9	0.01	1.0	219	-	-	-	45	-
CS - 10	0.01	1.0	283	-	-	-	80	-
CS - 11	0.01	0.9	90	-	-	-	65	-
CS - 12	0.01	0.8	34	-	-	-	23	-
CS - 13	0.01	0.8	36	-	-	-	18	-
CS - 14	0.01	0.9	28	-	-	18	8	-
CS - 15	0.01	0.9	34	-	-	14	-	-
CS - 16	0.01	0.9	33	-	-	19	-	-
CS - 17	0.01	-	45	-	-	-	-	-
CS - 17	0.01	1.3	295	-	-	-	-	-
CS - 18	0.01	0.8	23	-	-	-	-	-
CW - 1	0.01	0.5	16	-	-	-	18	-
CW - 2	0.01	0.8	23	-	-	-	25	-
CW - 3	0.01	1.0	33	-	-	-	42	-
CW - 4	0.01	-	62	-	-	-	-	21
CW - 5	0.01	0.8	64	-	-	-	-	-
CW - 6	0.01	0.6	28	-	-	-	-	-
CW - 7	0.01	0.6	28	15	116	-	-	-
CW - 8	0.01	0.6	44	-	-	-	-	-
CW - 9	0.01	0.8	23	-	-	-	-	-

REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.
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 L. WONG PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

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 REFEREE AND OR OFFICIAL CHEMISTS FOR Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society
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APPENDIX-11

TO:
MR. J. SINGHAI
 562 Clearwater Drive
 Richmond, B.C.

CERTIFICATE OF ASSAY

No.: 7609-0753B DATE Sept. 21/76

We hereby certify that the following are the results of assays on: **Ore**

MARKED	width	GOLD		SILVER		Copper	Arsenic	Tungsten	Nickel	Cobalt	Lead
		OZ/ST XXXXXXXXXX	OZ/ST XXXXXXXXXX	Cu (%)	As (%)	WO ₃ (%)	Ni (%)	Co (%)	Pb (%)		
<u>E-41447</u>											
578 - GG	Grab	trace	0.01	0.04	0.07	-	-	-	-	-	-
579	Grab	0.240	0.10	-	11.21	-	-	-	-	-	-
580		0.010	3.66	-	0.07	-	-	-	-	-	-
581		0.541	1.78	-	13.18	-	-	-	-	-	-
582	Grab	0.002	trace	-	0.04	-	-	-	-	-	-
583	4 1/2'	0.002	trace	0.07	0.04	0.02	-	-	-	-	-
584	5'	0.002	trace	0.03	0.02	-	-	-	-	-	-
585	Grab	0.003	trace	0.05	0.03	-	-	-	-	-	-
586	1 1/2'	0.010	trace	0.02	0.02	-	-	-	-	-	-
587	4'	0.004	trace	0.03	0.03	-	-	-	-	-	-
588	Grab	0.002	trace	0.01	0.02	0.24	0.01	-	-	-	-
589	Grab	0.003	trace	0.13	-	0.02	0.01	0.01	-	-	-
590	6'	0.002	trace	0.06	0.02	0.02	0.01	-	-	-	-
591	7'	0.002	trace	0.01	-	-	0.01	-	-	-	-
593	Grab	0.010	trace	0.02	0.36	-	-	-	-	-	-
594 - GG	8"	0.041	0.07	0.01	1.05	-	-	-	-	-	-
No Mark		0.036	1.88	0.02	1.48	-	-	-	-	-	-
						Lead	Zinc				
						Pb (%)	Zn (%)				
592 GG	8'	0.010	0.05	0.13	0.01	0.12					

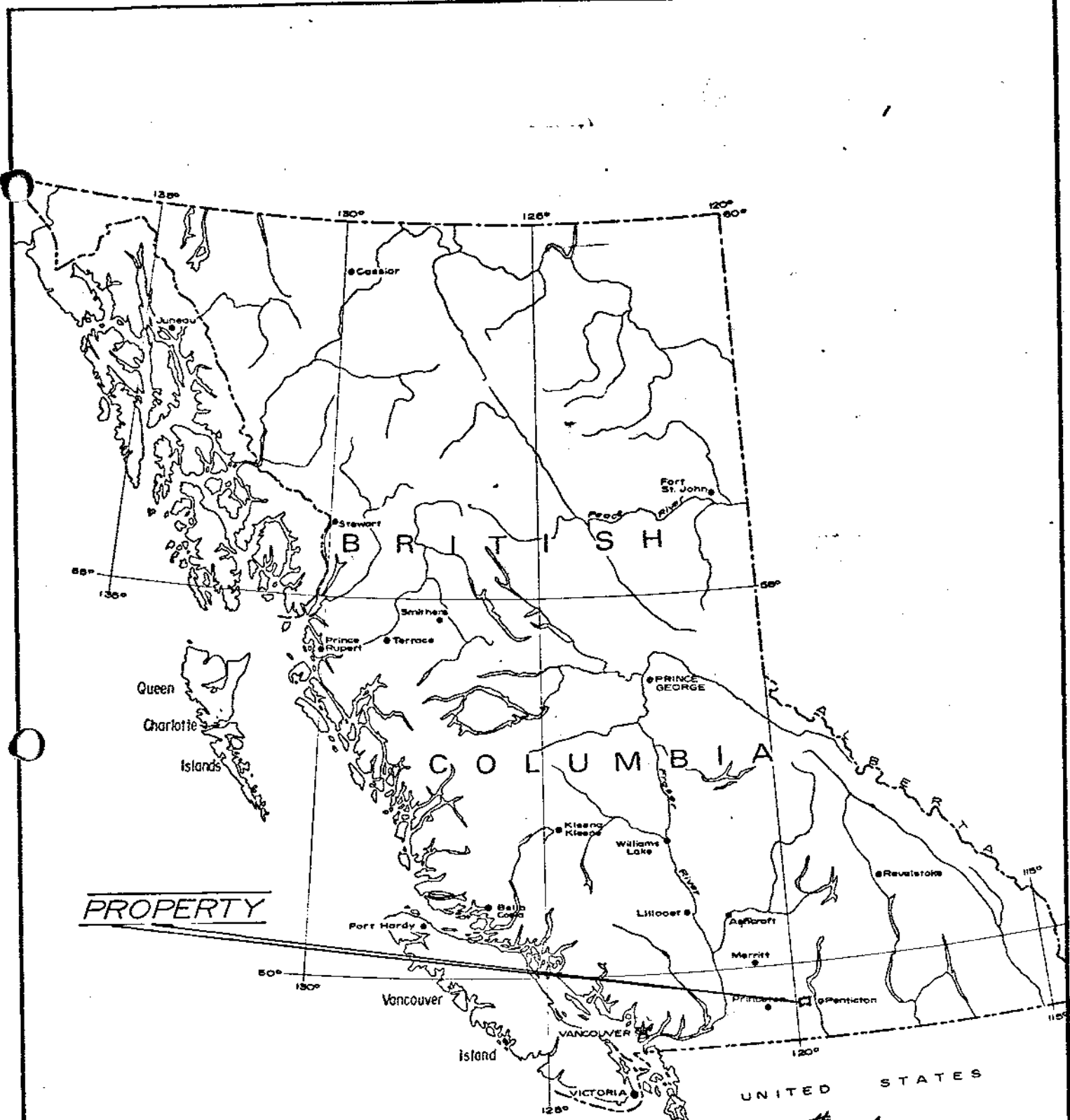
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UNITED STATES

6091

GOLDEN TOAD, TOUGH OAKS, BWINABY & GLYNNE HILL
 MINERAL CLAIMS, OSOYOOS MINING
 DIVISION, S.C.
 LOCATION MAP



SCALE
 1" = 136 Miles

December 17, 1976.

To:
Mr. L. Sprackman,
President,
Sumagro Mining Inc.,
2173 Dundas Street,
Vancouver, B. C.
V5L-1J7.

From:
Mr. G. C. Singhai, P. Eng.,
562 Clearwater Drive,
Richmond, B. C.
V7C-3B5.

Dear Sir,

Enclosed herewith is the bill for work done on Golden
Toad and Tough Oaks Mineral claims in Penticton area.

10 days (August 27 to Sept 6, 1976,) @ \$ 150.00 per day	\$ 1500.00
Report and Engineering	\$ 1100.00
Drafting and printing	\$ 250.50
Typing	\$ 55.60
Chemical analysis	\$ 789.75
Helicopter	\$ 399.99
Car and gas(@ 15¢ per mile for 1050 miles)	\$ 223.50
Hotel for two	\$ 58.83
Meals for two	\$ 51.90
cash for Ben Donovan	\$ 50.00
	<hr/>
Total	\$ 4480.07
	<hr/>
Balance	\$ 1400.00
	<hr/>
	\$ 3080.07

Advance

Thank you.

G. C. Singhai.
RECEIVED
GOVERNMENT AGENT'S OFFICE
G. C. Singhai

MAY - 2 1977

PENTICTON, B.C.

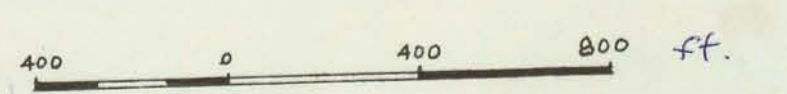


LEGEND

- POST TRIASSIC
- GRANITE
- TRIASSIC
- LIME STONE
- SKARN
- DUNIT DYKE
- PYROXNITE DYKE
- GABBRO DYKE
- DIORITE DYKE
- LANE SITE DYKE
- CREEKS
- ROAD
- STRIKE, DIP & VERTICAL DIP
- OUTCROPS
- ADIT
- PIT & CUTS
- X588 CHIP SAMPLES
- XCS SOIL SAMPLES
- XCW SILT SAMPLES

6091 M-1

MARSHALL PROPERTY
 GOLDEN TOAD, TOUGH OAKS, BWINABY & GLYNNE HILL
 MINERAL CLAIMS, OSOYOOS MINING DIVISION
 BRITISH COLUMBIA
 SCALE



BY: G. C. SINGHAI