REPORT ON
PERCUSSION DRILLING

ON

ORB #1 - 5, & 7 MINERAL CLAIMS
SUNDAY CREEK AREA

SIMILKAMEEN MINING DIVISION, B.C.

N.T.S. 92H/7 AND 92/H2

NORTH LATITUDE 49°15'10" WEST LONGITUDE 120°34'20"

FOR:

EMERALD STAR MINING EXPLORATION LTD.

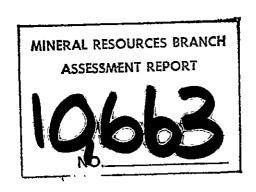
432 - 8th Street, New Westminster, British Columbia

BY:

G. C. SINGHAI, P.Eng.

March 7, 1983.

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SUMMARY

The 84 mineral claim (units) of Emerald Star Mining Explorations Ltd. are located about 20 air kilometers south of Princeton in the Sunday Creek Area, Similkameen Mining Division, British Columbia.

During the period of July 12 - 14 and August 2 - 11, 1982, a four percussion drill hole programme, totalling 236.28 meters, was completed. These holes were located on the basis of airborne geophysical survey conducted by Glen E. I. White Geophysical Services Ltd. of Richmond, B.C., during 1982. This drilling was not very encouraging and was inconclusive.

The area is underlain by a sequence of Nicola Group of rocks of Triassic age, and overlain by Princeton Formations of Eocene Age. The Nicola Group is intruded by the Copper Mountain intrusives of possibly Jurassic Age. The Nicola Group on the east is brought in contact with the younger Princeton Formation on the west by the North-South trending "Boundary Fault".

The Ingerbelle producing mine and Copper Mountain copper is hosted by the Nicola Group of rocks; therefore further exploration work should be undertaken.

REPORT ON

ORB #1-5 AND 7 MINERAL CLAIMS

SUNDAY CREEK AREA

SIMILKAMEEN MINING DIVISION, B.C.

FOR

EMERALD STAR MINING EXPLORATION LTD.

INTRODUCTION

This report is on six staked mineral claims located about 20 kilometers south of Princeton, covering Sunday Creek between Highway #3 and the Similkameen River, in the Similkameen Mining Division, B.C. It is prepared at the request of Mr. Norris Proskin, the President of Emerald Star Mining Exploration Ltd., 432 - 8th Street, New Westminster, B.C.

This report discusses the percussion drilling results which was carried out during the period of July 12 - 14, and August 2 - 11, 1982, under the supervision of the author. The above drilling programme was to test the result of Magnetometer, Electromagnetometer survey, and Airborne VLF-EM and Magnetometer survey anomalies. This percussion drilling programme was completed by L. P. Spence Percussion Drilling Ltd., of 404 - 850 West Hastings Street,

Vancouver, B.C. It consists of four drill holes totalling 236.28 meters by Emerald Star Mining Explorations Ltd.

PROPERTY AND OWNERSHIP

The property consists of six mineral claims, staked in accordance with the modified grid system of British Columbia. The details of these mineral claims are as follows: -

Name of Claim	No. of Units	Record No.	Date of Expiry
ORB # 1	18	1356	December 22, 1983
ORB # 2	18	1357	December 22, 1983
ORB # 3	6	1358	December 22, 1983
ORB # 4	10	1406	May 19, 1983
ORB # 5	20	1563	September 15, 1983
ORB # 7	12	1565	September 15, 1983
1	84		

The mineral claims are owned by Emerald Star Mining Exploration Ltd.

LOCATION AND ACCESS: -

The property is situated approximately 20 air kilometers south of Princeton in the Sunday Creek Area, in the Similkameen Mining Division of British Columbia. The

property is centered approximately 49°15'10" North Latitude and 120°34'20" West Longitude.

The property is accessible by about 25 kilometers of Highway #3, from Princeton to Sunday Summit which passes through the western part of the property, and thence by old logging and forestry road to Sunday Creek. Supplies are available from the town of Princeton.

TOPOGRAPHY, VEGETATION AND CLIMATE: -

The area is lcaoted on the northeast of Friday
Mountain and in the valley of Sunday Creek. It is a
transitional zone between the Interior Plateau to the north
and the Cascade Mountains of Washington State. The elevation on the property varies from 1340 meters to a low of
about 850 meters above sea level. The general slope of
the area is gentle.

The claim area is covered by trees of commercial value and can be used for mining purposes. The climate of the area is moderate for the greater part of the year. It is typical coastal climate. It rains during summer months and has a heavy snowfall in the winter months. The temperature falls below zero occasionally.

The area is drained by Sunday Creek and Saturday

Creek which are the tributaries of the Similkameen River.

These creeks can supply all water required for exploration and mining. The exploration can be carried out throughout the year.

PROGRAMME: -

During the period of July 12 - 14 and August 2 - 11, 1982, the following work was completed:

- The company located and prepared four drill hole sites.
- Four percussion drill holes have been completed totalling 236.28 meters.
- 3. The cuttings of rocks have been collected at intervals of every 3.3 meters, and test cuttings were logged, and mineralized sections were presented to Chemex Labs Ltd., 242 Brooksbank Avenue, North Vancouver, for analysis of Gold, Silver, and Copper.

GEOLOGY: -

The regional geology of the Copper Mountain area was mapped by V. A. Preto, the Geologist of British Columbia

Department of Mines and Petroleum Resources, during the period of 1968 - 69, to accompany Bulletin #59 which was published in 1972. The study of this map indicates that the area is underlain by a sequence of volcanic Wolf Creek Formation of Nicola Group of Upper Triassic Age. These formations are overlain by volcanogenic rocks of Princeton Group of Middle Eocene Age. The Nicola Group of Rocks are intruded by the Copper Mountain Intrusive of Upper Triassic Age.

The Wolf Creek Formation of Nicola Group consists of Triassic basaltic Volcanics interbedded with varicoloured pyroclastic and sedimentary rocks. These formations are intruded by the Upper Triassic or Lower Jurassic Copper Mountain Intrusive which consist of diorite and latite porphyry dykes.

The Lower Volcanic Formation of Princeton Group of Middle Eccene consists of varicoloured andesitic and basaltic flows which are occasionally brecciated and tuffs.

The area is affected by the "Boundary Fault" trending North-South across the property, and brings the Nicola Group on the East in contact with Princeton Group of rocks on the West.

The Nicola Group of rocks are the main host rocks for the mineralization of copper in the Copper Mountain area, and the Ingerbelle open pit mine of New Mont Mines Ltd., which are located about 2 kilometers and 10 kilometers north of the area, respectively.

DRILLING OF 1982: -

The Company initiated a programme of percussion drilling and completed four drill holes totalling 236.28 meters during the period of July 12 - 14, and August 2 - 11, 1982, in order to provide stratigraphic and lithological information. The drill sites were chosen by the Company. The author collected rock cutting at intervals of every 10 feet, and logged the cuttings. They were then submitted to Chemex Labs Ltd. where they were assayed for Gold, Silver and Copper.

The locations of these drill holes are marked on Map #3. For details of the logs see Appendix #1. The details of these holes are as follows.

ORB # 1 - 82

It is a vertical hole drilled to the total depth of 70.12 meters (230.0 feet). It encountered 12.19 meters (40.0 feet) of overburden. It also intersected

some mineralized zones with minor chalcopyrite and pyrite, particularly close to the contact with granodiorite dykes. This holes is not assayed. For details see Log.

ORB # 2 - 82

It is a vertical hole drilled to the total depth of 31.46 meters and encountered 9.15 meters of over-burden. It had intersected sediments except andesitic dyke at 70.12 - 82.31 meters. This hole was assayed. Values are very good. See Appendix #2.

ORB # 3 - 82

This hole is drilled at -73° due S80°W for the total depth of 25.91 meters. It intersected 3.04 meters of overburden and therest of ir was in andesite. It has been assayed but the values are very low. See Appendix #2. This hole encountered a fault and lost circulation, and was therefore discontinued.

ORB # 4 - 82

It is drilled to the total depth of 48.78 meters vertically. This hole could not get out of the overburden to the total depth and was therefore discontinued.

CONCLUSIONS: -

The above drilling programme is not very encouraging and is inconclusive. The drill holes were located on the basis of airborne VLF-EM and Magnetometer Survey which has outlined only geological contacts. However the property is located in a favourable geological environment and structure. The Copper and Gold producing Ingerbelle property and Copper Mountain property are located in similar type of Nicola Group Volcanic and sedimentary rocks of Triassic Age. Therefore some ground I.P. Survey should be carried out and the anomalous zones, if any, should be tested by trenching and diamond drilling.

Respectfully submitted:

DATED AT:

901 - 675 W. Hastings St.

Vancouver, B.C.

March 7, 1983

C. SinghaistM. Tech., P. Eng.

VGINERO

CERTIFICATION

I, Gyan Chand Singhai of 5620 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 the Canadian Institute of Mining and Metallurgy.
- (2) I am a post-graduate in Applied Geology (1959) from the University of Saugor, Sagar, Madhya Pradesh, India, and have been practising my profession since that time.
- (3) I was teaching in the University of Saugor, Sagar, and Ravishankar University, Raipur, India, and practised my profession in India, Canada, West Indies, Mexico and Peru.
- (4) This report is based as a result of personal examination of property on and the information and data provided by Emerald Star Mining Exploration Ltd.
- (5) I have no interst either directly or indirectly in the property herein, nor in any other properties, nor in in the securities of Emerald Star Mining Exploration Ltd.
- (6) This report may be used for the purposes of a prospectus, if so desired.

)G.

DATED AT
901 - 675 W. Hastings St.,
Vancouver, B.C.
March 7, 1983

ingRad StM Tech., P.Eng.

<u>c os r</u>

Please see Appendix "A"

APPENDIX "A"

SINGHAI ENGINEERING

INTERNATIONAL LTD.



RESIDENCE 562 CLEARWATER DRIVE RICHMOND, B.C. 277-5117

August 31, 1982

Statement to account

Attn: Dr. Norris Proskin EMERALD STAR MINING EXPLORATIONS LTD. 432-8th Street New Westminster, B.C.

V3M 3R7

In account with: Singhai Engineering International Ltd.

Mr. G.C. Singhai, P.Eng.

CHEQUE #. A DATE OF LOS AS A STATE OF LOS AS A S

Thank You:

Singhai Engineering International Ltd.

1000

G.C. Singhai

February 4, 1983

INVOICE

EMERALD STAR MINING EXPLORATION LTD. 432 - 8TH STREET NORTH WEST VANCOUVER, B.C.

HOLE NO.	TOTAL	DEPTH OF	HOLE				
P.H. 1 P.H. 2 P.H. 3 P.H. 4		230 FT. 300 FT. 90 FT. 170 FT.					
TOTAL FOOTA	GE	790 FT.	@	\$6.00 PER	FT.	=	\$4,740.00
	TUTAL	AMOUNT DU	JE UPON	RECEIPT			\$4,740.00

Yours truly,

L.P. SPENCE PERCUSSION DRILLING LTD.

Lorne P. Spence

LPS/dm

EXTENTIONS, PRICES, ADDITIONS CHECKED:	
PURCHASE ORDER #:	
DATE OF RECEIPT OF GOODS OR SERVICES:	
RECEIVED BY:	
AUTHORIZED FOR PAYMENT:	1
CHEQUE NUMBER: 450	
DATE PAID	
	_

APPENDIX #1

EMERALD STAR MINING EXPLORATION LTD.

ROTARY DRILL HOLE NO. ORB #1-82 ANGLE OF HOLE: VERTICAL TOTAL DEPTH: 230'

NAME OF PROPERTY: ORB PRINCETON, B.C. DATE OF DRILLING: JULY 13, 1982

DATE OF LOGGING: AUGUST 2, 1982 LOGGED BY: G. C. SINGHAI

FROM	TO	DE	SCRIPTION ORB #1-82
0'	40'	OVERBURDEN (NO SAMPLE)
40	50	Argillite	Black, very fine-grained with bebbles of quartz which indicates it may be from a part of overburden; few grains of epidote. Some volcanics with very few pieces of pyrite and calcite.
50	60	Volcanic	Black, very fine-grained, quartz and few crystals of calcite. Rusty bouged quartz pieces.
60	70	Volcanic	Black, very fine-grained, rusty quartz. Bouged calcite grains, and occassionally pyrite, maybe chalcopyrite.
70	80	Volcanic	Black, very fine-grained, with abundance of white and occassionally rusty quartz. Volcanics with minor pyrite, calcite.
80	90	Volcanic	Black, very fine-grained, with abundance of white quartz mineralized by pyrite, some calcite along fractures.
90	100	Volcanic	Same as above, with pyrite, minor chalco-pyrite.
100	110	Granite Dyke	70% Granitic material, 30% Volcanic material. Quartz with pyrite, colour of this sample is very light grey. May be some chalcopyrite.

FROM	Т0		DESCRIPTION ORB #1-82
110	120	Granite Dyk	as above, but Volcanic is about 10%. pyrite with quartz and my be chalcopyrite.
120	130	Volcanic	Dark grey, fine-grained about 70% volcanic material and 30% Granitic material. Lower contact pyrite.
130	140	<u>Volcanic</u>	Dark grey, fine-grained, 10% quartz with some pyrite, calcite.
140	150	<u>Volcanic</u>	Dark grey as above with rosy colour quartz, calcite and pyrite, maybe some chalcopyrite.
150	160	Volcanic	As above, with pyrite, epidote and calcite.
160	170	Contact of	Dyke light grey , fine-grained, 40% Granitic material, 60% Volcanic material. minor pyrite, minor epidote.
170	180	Granitic Dy	vke light grey, dyke Granitic. Quartz, calcite feldspar, and some pyrite. 30% volcanic material.
180	190	Lower Conta	ct Grey, fine-grained. 50% Granitic and 50% Volcanic material, with quartz, calcite, feldspar and pyrite.
190	200	<u>Volcanic</u>	Dark grey, granitic material 30%, Volcanic material 70%, quartz and calcite. Pyrite with quartz and volcanic rocks.
200	210	Volcanic	as above. Dark grey, occasionally rusty quartz, pyrite.
210	220	<u>Volcanic</u>	as aobve. minor pyrite.
220	230	Volcanic	as above. Quartz, calcite and good pyrite.
		END OF HOLE	AT 230'

August 2, 1982

G.C. SINGHAI

EMERALD STAR MINING EXPLORATION LTD.

ROTARY DRILL HOLE NO. ORB #2-82 ANGLE OF HOLE: VERTICAL BEARING:

TOTAL DEPTH OF HOLE: 300' DATE OF DRILLING: AUGUST 6, 1982

DATE OF LOGGING: AUGUST 11, 1982 LOGGED BY: G. C. SINGHAI

FROM	ТО		DESCRIPTION ORB #2-82
0'	. 30 °	CASING	Overburden.
30	40	Sand	Light grey, fine-grained, quartz, calcite pieces of argillite, hornblende and rusty quartz, No sulphides.
40	50	<u>Argillite</u>	Grey to light grey, very fine-grained. Some pieces of quartz, calcite, epidote, and argillite pieces, and rusty quartz. No sulphides.
50	60	<u>Argillite</u>	as above, with no sulphides.
60	70	Argillite &	Andesite Light grey, with quartz, calcite 60% and argillite 40%. Some of quartz pieces are rusty. Maybe andesitic dyke about 6 feet. No sulphides.
70	80	<u>Argillite</u>	As 50-60' but with minor sulphides; mostly pyrite.
80	90	<u>Argillite</u>	As above with pyrite.
90	100	Argillite & A	Andesite Dyke Pieces of argillite and quartz, feldspar, calcite, hornblende. Few pieces of quartz are rusty.
100	110	<u>Argillite</u>	As 80-90' with rusty quartz and pyrite.
110	120	Argillite	As above with minor pyrite
120	130	<u>Argillite</u>	As above with pyrite

FROM	ТО	DESCRIPTION ORB#2-82
130	140	Argillite As above. with pyrite.
140	150	Argillite As above with very minor pyrite.
150	160	Argillite As above with pyrite.
160	170	Argillite As above with no pyrite.
170	180	Argillite As above with no pyrite.
180	190	Argillite As above with pyrite.
190	200	Argillite As above with very minor pyrite.
200	210	Argillite As above with very minor pyrite.
210	220	Argillite Grey with pieces of quartz and pyrite.
220	230	Argillite As above, but 20-30% quartz and minor pyrite.
230	240	Andesite Dyke Light grey, quartz, feldspar, hornblende, calcite, minor pyrite.
240	250	Andesite Dyke As above with pyrite.
250	260	Andesite Dyke As above, pyrite and minor chalcopyrite.
260	270	Andesite Dyke As above.
270	280	Argillite & Dyke As above, pieces of pyrite, quartz and argillite.
280	290	Argillite As above, with minor quartz and pyrite.
290	300	Argillite As above with minor pyrite, maybe Native copper
		END OF HOLE AT 300'

AUGUST 11, 1982

G C SINGHAT

EMERALD STAR MINING EXPLORATION LTD.

ROTARY DRILL HOLE NO. ORB #3-82 ANGLE OF HOLE: -730 TOTAL BEARING: 2600

TOTAL DEPTH: 85' DATE OF DRILLING: AUGUST 7, 1982

DATE OF LOGGING: 10 AUGUST, 1982 LOGGED BY: G. C. SINGHAI

FROM	TO	D E-S C R I P T I O N ORB #3-82
0	10'	CASING IN OVERBURDEN (NO SAMPLE).
10	20	Andesite Light grey, fine-grained feldspar, quartz and occassionally epidote. amphiboles, calcite.
20	30	Andesite as above but maybe pyrite asi it is oxidized but its box work is present.
30	40	Andesite as above.
40	50	Andesite as above. occassionally minor pyrite.
50	60	<u>Andesite</u> as above.
60	70	Andesite as above.
70	80	Andesite as above with sulphides.
80	85	Andesite as above with sulphides (minor),

END OF HOLE AT 85'

AUGUST 10, 1982

G. C. SINGHAI

EMERALD STAR MINING EXPLORATION LTD.

ROTARY DRILL HOLE NO. ORB #4-82 ANGLE OF HOLE: VERTICAL TOTAL DEPTH: 160'

DATE OF DRILLING: Commenced AUGUST 8, 1982, Completed AUGUST 9, 1982

DATE OF LOGGING: AUGUST 10, 1982 LOGGED BY: G. C. SINGHAI

FROM	то		DESCRIPTION ORB #4-82
0'	40'	CASING OVER	RBURDEN (But on sample 0-35')
35	40	Andesite	Light grey, fine-grained feldspar, quartz, and rusty quarz pieces. No mineralization.
40	50	Andesite	As above. Hornblende, epidote, and rusty quarz.
50	70	NO SAMPLE O	COLLECTED
70	80	AS ABOVE	Seems to be more clay
80	90	Sandy clay	
90	100	Sands	With hornblende crystals.
100	110	Sands	Quartz, pink quartz, hornblende.
110	120	<u>Sands</u>	As above. Some pebbles are round. Size .1mm to 1mm/
120	130	<u>Sands</u>	As above.
130	140	Sands	As above
140	150	Sands	As above
150	160	Sands	As above

END OF HOLE AT 160'

G. C. Singhai

August 10, 1982

APPENDIX # 2



CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C.

CANADA V7J 2C1

TELEPHONE: (604) 984-0221 TELEX 043-52597

ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : SINGHAI ENGINEERING

#901-675 WEST HASTINGS STREET

VANCOUVER, B.C.

V5Y 3E1

CERT. # : A8212689-001-A

INVOICE # : 18212689 DATE : 25-AUG-82

P.C. # : NONE

Sample		Prep	Շս	Ag FA	Au FA			
descrip		code	%_	oz/T	oz/t			
DR B-2-82		207		0.08	<0.003			
OR8-2-82		207		0.04				
GR8-2-82					<0.003			
				<0.01	<0.003			
ORB-2-82				<0.01	<0.003			
ORS-2-82				<0.01	<0.003			
CRB-2-82				<0.01	<0.003			
CRB-2-82				0.02	<0.003			
CR8-2-82				0.02	<0.003			
OR8-2-82				0.01	<0.003			~-
OR3-2-82				0.01	<0.003			
GR8-2-82				<0.01	<0.003			
ORB-2-82	220-230	207		<0.01	<0.003			
ORB-2-82				0.02	<0.003			
GR8-2-82				<0.01	<0.003			
ORB-2-82			<0.01	0.02	<0.003			
0R3-2-82	260-270	207	<0.01	0.04	<0.003			
OR B-2-82	270-280	207	<0.01	<0.01	<0.003			
OR8-2-82	280-290	207	<0.01	0.04	<0.003			
OR B-2-82			<0.01	0.02	<0.003			
OR8-3-82		207		0.01	<0.003			
ORB-3-82		207		0.05	<0.003			
ORB-3-82		207		0.20	<0.003			
ORB-3-82		207	=-	0.06	<0.003	- -		
ORB-3-82		207		<0.01	_			
OR8-3-82		207		_	<0.003			
OR8-3-82		-		0-01	<0.003			
070-5-62	10-00	207		0.02	<0.003			



Registered Assayer, Province of British Columbia

