86-1025-15692

DIAMOND DRILLING REPORT

FOR

EMERALD STAR MINING EXPLORATIONS LTD.

ON THE

ORB 1 TO 5 AND 7 MINERAL CLAIMS.

SIMILKAMEEN MINING DIVISION

MAP NTS: 92H/7Eand 92H/2E

LATITUDE:

49° 15.8' WW North. 120° 16-621" WEST.

LONGITUDE:

Author: W H THOMPSON. (Consultant - Interex Development Corp.)
Date of work: May 01, 1986 to May 27, 1986.

Date of report: June 02, 1986.

Property Owner: Emerald Star Mining Explorations Ltd.

Operator: Emerald Star Mining Explorations Ltd.

GEOLOGICAL BRANCH ASSESSMENT REPORT

SUB-RECORDER RECEIVED

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M.R. # \$.... VANCOUVER, B.C.

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DIAMOND DRILLING REPORT ON THE ORB MINERAL CLAIMS

SUNDAY CREEK AREA OF THE SIMILKAMEEN MINING DIVISION.

FOR

EMERALD STAR MINING EXPLORATIONS LTD.

1.0 INTRODUCTION

This report is on the diamond drilling results on the staked Orb mineral claims that include the Orb 1 to 5, and 7, metric claims that make up 84 units 20 kilometers south of Princeton British Columbia. The area covered by the claims is known as the Sunday Creek area. The report was prepared at the request of Mr. Ryun Sinclair, President of Emerald Star Mining Explorations Ltd. Suite 106 - 525 Seymour St., Vancouver, B.C. V6B 3H9.

The report is based on the results of a diamond drilling programme that was conducted during the month of May 1986. The Author was responsible for supervision of the drilling programme and core logging of the drilled holes spotted or located by Emerald Star personnel. The drilling programme was based on recommendations from prospecting done by Emerald Star personnel, who had located sulphide rich surface exposures of volcanic rocks.

2.0 SUMMARY OF THE RESULTS OF THE DRILLING PROGRAMME

The drilling programme resulted in the intersecting of a sequence of layered volcanic andesites and tuffs of the Nicola Group which is Middle Eocene in age. Significant sulphides and carbonate rich zones were observed in the core. The core was assayed for copper silver and gold, but no significant assays other than anomalous copper and silver were obtained.

3.0 PROPERTY AND OWNERSHIP

The property consists of six (6) mineral claims that consist of eigthy four (84) units staked in the modified grid system. The list of claims and specific detailes are as follows:

ORB #1 ORB #2 ORB #3 ORB #4 ORB #5	No. of units 18 18 6 10 20	record No. 1356 1357 1358 1406 1563	Expiry date Dec. 22, 1987 Dec. 22, 1987 Dec. 22, 1987 May 19, 1987 Sept. 15, 1988
ORB #7	12	1565	Sept. 15, 1988

Total units 84.

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

4.0 LOCATION AND ACCESS

The property is located about 20 km by air south of Princeton in the Similkameen Mining Division. The property lies on and around Sunday Creek and the center of the property is approximately at a Latitude of: 49° 15' 20" North and a Longitude of 120° 34' 20" West.

Access to the property is via Highway 3 about 25 km. South of Princeton B.C. Two wheel drive summer access to the drill locations, is by gravel logging roads that wander across the property.

5.0 TOPOGRAPHY, VEGETATION AND CLIMATE

The elevation of the property is between 850.0 m and 1,340 m and lies between the interior plateau to the North and the Cascade mountains to the South. Summer average rainfall is 197 mm, with an average temperature of 17.8°.C.during the hottest month of July. Winter snow fall averages 168 cm with an average temperature of -7.9°C. during the coldest month of January. This provides a climate conducive for the growth of excellent pine and spruce forests on medium to gentle slopes. Sunday Creek runs into the Similkameen River which also passes through the property, either of the water courses would supply adaquate water for mining and exploration purposes.

6.0 HISTORY AND PREVIOUS WORK DONE ON THE PROPERTY

Emerald Star Mining Explorations Ltd. is the first company to record significant work in the area of the Orb claims. The area has obviously been gone over several times in staking rushes, when the mines were found in the area. Placer mining in the Similkameen River has been ongoing since the early 1900's for both gold and later platinum. Some of the Orb mineral claims overlap placer claims on the Similkameen River.

Emerald Star Mining Explorations Ltd. Conducted a small survey of stream sediment sampling during the period from 1981 to 1982. During March 1982 Western Geophysical Aero Data Ltd. conducted an airborn survey using VLF - EM and a Magnetometer. No significant VLF anomalies were discovered, but an Induced Polarization survey was recommended over the best magnetic anomalies.

A two phase percussion drilling programme was conducted previous to the 1986 programme. The programm consisted of a total of 882.26 meters of drilling in 14 drill holes. The first phase was conducted during 1981 from February to September, and the second Phase was conducted from July to August in 1982. The intent of the programme was to provide stratographic and lithological information in an area covered largely by glacial till.

7.0 THE 1986 DRILLING PROGRAMME

Interex Development Corp. was contracted to supervise the dilling and logging of the core from holes spotted by Emerald Star personnel.

Three NQ diamond drill holes were drilled on the Orb 2-4 boundry (see map 3 enclosed). A total of 500 feet (152.4 meters) was drilled. All the drill holes intersected layered intermediate pyroclastic volcanic rocks. The rocks consisted mainly of andesitic tuffs that were variably sheared, faulted, with graphitic, carbonate, and sulphide rich zones. No commercial quantities of mineralization was observed. A few samples were split and assayed for gold, silver and copper. No commercial values were obtained from the assays.

The alteration of the andesites, specifically the carbonate, and the sulphide alteration was significant, and could be followed up using methods recommended previously by G.C. Singhai M Tech., P.Eng. in his November 1985 report for Emerald Star Mining Explorations Ltd. The follow-up methods would include a ground controlled survey grid with a geochemical and geophysical survey combined with geological mapping.

The diamond drill core is stored at: 432-8th. St. New Westminster, B.C. V3M 3R7.

8.0 GEOLOGY

The regional geology was mapped in by H.M.A. Rice in 1939-44 (map 888A Geological Survey of Canada) and also by V.A. Preto for the B.C. Department of Mines and Petoleum Resources in 1968-69 to accompany Bulletin # 59 (Published in 1972). Both maps indicate that the Orb claims are underlain by Upper Triassic Nicola Group volcanic rocks. Preto further classifies the rocks as the Wolf Creek Formation.

These rocks are intruded by the Triassic Copper Mountain intrusive. The Nicola volcanics are the primary host for many of the local copper deposits such as the Ingerbelle deposit of Newmont Mines Ltd.

8.1 MINERALIZATION

The area hosts several types of sulphide deposits, these include bornite deposits, where the ratio of bornite to chalcopyrite is reletively high, also chalcoprite-hematite, and chalcoprite-pyrite deposits.

The drilling on the Orb claims intersected pyrrohtite and pyrite mineralization that often occured with carbonate, and graphitic alteration. No thin sections or specific rock analysis was done to better identify the fine grained andesitic rocks and the other accompanying alteration.

8.2 SAMPLING AND ASSAY RESULTS

Only a few more promising sections of the core were split and assayed for copper, gold and silver. One sample was analysed for platinum and chromium. The analyses were done by two labs using standard fire assay, and rock geochemical procedures. The labs that did the analyses were: (1) Kamloops Research and Assay Laboratory Ltd. of Kamloops B.C. and (2) Chemex Labs Ltd. of Vancouver B.C.

All the core should be split and analysed, so far the best results obtained were 135ppm Cu, and 0.2ppm Ag. No significant gold was discovered.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Significant but uneconomic sulphide and carbonate mineralization has been located on surface and in drill holes. An airborn ground geophysics and ground geochemistry, combined with a that percussion drilling programme provided stratigraphic and information was done prior to the 1986 programme. programme, consisted of diamond drilling that was recommended by Emerald Star personnel on the basis of prospecting, rather than follow-up, as recommended by Singhai in his report dated November 07, The report was titled: "Report On The Orb # 1-5, & 7 Mineral Claims". If Emerald Star Mining Explorations Ltd. intends to continue working on the Orb Claims then it is recommended that the follow-up programme that Mr. Singhai recommended is in order. Some small changes could be considered, these would be in the order of data accumulated. Compass lines would initially be utilised to conduct the aeochemical surveys combined with a magnetometer survey and mapping. The results of this accumulated data would then be analysed before an I.P. survey is conducted on cut picket lines, in selective areas.

The follow-up programme would be done in three phases each phase depending on the preceding phase. The recommendations are as follows:

10.0 REVISED RECOMMENDATIONS FORM SINGHAI REPORT.

Phase I.

- (1) North south cut and picketed, base lines would be used for ground control over areas of magnetic low anomalies. Compass grid lines would be established perpendicular to the base line at 60 meter intervals, with stations marked every 30 meters.
- (2) The gridded areas would be covered by a soil survey, and a magnetometer survey. The soil samples would be analysed by soil geochemical methods for copper, gold and silver.
- (3) The whole area should be mapped and prospected.

Phase II.

- (1) Geochemical and geophysical anomalies would be re-prospected, with some additional closer spaced sampling on the anomalies.
- (2) Cut out good picket lines over the anomalous geochemical and magnetic areas, and conduct I.P. surveys over these areas.

Phase III.

- (1) Trench anomalous areas where overburden is not a significant factor. Sample and map the trenches.
- (2) Drill the best anomalies.

Dated at: 1003-470 Granville St. Vancouver B.C. V6C 1V5

Ph:(604)688-4155. June 02, 1986. Respectfully submitted:

W.H. Thompson.

11.0 ESTIMATED COST

PHASE I

1. Mobilization/Demobilization	\$ 1000.00		
<pre>2. Picketed base line and compass grid lines 15 km at \$120.00/km = \$ 1800.00</pre>	\$ 1800.00		
 Soil survey. Two persons at 300/day X 10 days Assay costs 500 X \$ 10.00 Shipping, packing, sample bags,etc. Boarding and lodging Transportation Magnetometer survey \$ 200.00/Km 	\$ 3000.00 \$ 5000.00 \$ 400.00 \$ 1000.00 \$ 40.00 \$ 3000.00		
5. Mapping and project management 30 days all-up costs	\$13200.00		
PHASE I TOTAL COSTS	\$28440.00		
PHASE II			
1. Geochmical sampling follow-up, and prospecting	\$ 5000.00		
2. Five Km of picket lines over the best anomalies	\$ 1000.00		
3. Five Km of I.P. survey at \$ 580.00/Km	\$ 2900.00		
PHASE II TOTAL COSTS	\$ 8900.00		

PHASE III

1. Trenching	\$ 8000.00
 Diamond drilling. 800 feet (243 m) at \$20/foot Supervision of drilling, trenching and sampling Splitting core and assaying Final data compilation and reports 	\$16000.00 \$ 8000.00 \$ 4000.00 \$ 3000.00
PHASE III TOTAL COSTS	\$39000.00
TOTAL COSTS OF PHASE I, PHASE II AND PHASE III PLUS 10% CONTINGENCY	\$75,440.00 \$ 7,540.00
TOTAL	\$82,980.00

CERTIFICATION

- I, WILLIAM H THOMPSON of # 1003-470 Granville St, Vancouver, B.C. Canada. V6C 1V5. Telephone (604) 688-4155, do certify that:
- (1) am an Associate Member of the Geological Association of Canada.
- I attended the Universities of Victoria and Saskatchewan and studied Geology.
- I have been employed both on a full time basis, geological consultant throughout Canada and the U.S.A. by Mining and exploration companies such as DeKalb Mining Corporation, Essex Mineral Corp. (U.S. Steel), American Smelting and Refining Co. (ASARCO), and Dumbarton Mines Ltd.
- This report is based on the personal examination of the property, and the supervision of the diamond drilling program that was conducted during the month of May, 1986 from the period May 15 to May 27, 1986.
- have no interest, either directly indirectly or in the property herein, nor any securities of Emerald Star Mining Explorations Ltd.

Dated at 1003-470 Granville St., Vancouver, B.C. Canada. V6C 1V5 June 02, 1986.

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Support. Chemer Lats. Kamboops Research & Assay

14639.75

3509.75

566.50

57,00

18 773.00

Bibliography

- Glen E. White, E. Trent Pezzot. March 26, 1982.
 Airborne VLF-EM & Magnetometer VLF-EM & Magnetometer Survey Orb, Orb 1-5, Orb 7 Claims.
- G.C. Singhai. November 7, 1985.
 Report on Orb # 1-5, & 7 Mineral Claims. Sunday Creek area.
- 3. M.C. Hanson. 1983.
 Report on Very Low Frequency Electromagnetic Surveys on the Orb group of Mineral claims.
- 4. V.A. Petro. 1979. Geology of the Nicola Group Between Merrit and Princeton, B.C. B.C. Min. of Energy Mines and Petoleum Resources, Bul. No. 69.
- 5. V.A. Petro Geology of Copper Mountain. B.C. Min. of Energy Mines and Petroleum Res., Bul. No. 59.

APPENDIX I.

DRILL HOLE LOGS AND CROSS-SECTIONS OF 1986.

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street - - Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole No. Rainbo	w - 1	
Property ORB (Em	erald Star)	
Project No.		
Commenced		•.
Completed May	1986	

Length	157'	(1ft=0.305m)
Bearing	266 ⁰	
Dip	-80 ⁰	
Lat.		
Dep.		

Hor. Comp.	
Ver. Comp.	and the second s
Elch. al	
True Dip	
Logged by W.	Thompson
Date Logged	

			Description	Assay No.	Assay	Analysis	,			r	,
Elev.	From	To	This hole cut through a section of gray		Length	! 				ļ	ļ
			Andesitic volcanic rocks that have a rel-								
		 	i ·								
	ļ		atively high amount of interstitial carbon-		<u> </u>			 		 	
			ate. Disseminated pyrite & pyrrhotite is						<u> </u>	ļ	<u> </u>
			common & fractures are filled with carbon-	·	<u> </u>						
			ates & sulphides. Graphitic sections are								
			common on contacts.		ļ						
		12	Overhurden (setting casing)		· ·		<u> </u>		<u> </u>		
	12	51.5	Andesite carbonate rich Lapilli tuff with					ļ			
			fragments to 1cm, minor fracturing is								
			evident. Disseminated pyrite & pyrrhotite						ļ	<u> </u>	
			is common but not abundant. Core angles are							 	
			45 ⁰ -90 ⁰ CA.								
	51.5	53.5	Andesite Randed Graphite ash tuff common on			<u> </u>				} }	
			contacts with minor disseminated sulphides.						ļ		
	53.5	68.0	Andesite Lapilli-ash.contact shear zone.								ļ
			(Possibly an andesite dike). Fracture								
			planes are Limonitic indicating oxidation								

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole	№ Rair	pom==	1_page 2 Length $i t = 0.30$	5 m		Hor. Comp. Ver. Comp.								
Prop			Bearing							. •				
-	ct No.		<u>Dip</u>			Elch. al True Dip								
	nenced		Lal.			Logged by		— — —						
Comp	leled		Dep. Elev.			Date Logged								
			Description Ciev.	Assay No.	Assay	Analysis								
<u> </u>	From	То	-		Length			T	1					
Elev.	FIOM	110	con't- of sulphides which are in the fract-		 	 		1	 	 				
			ures and also dissemminate mud between	-	· · · · · · · · · · · · · · · · · · ·	-		 						
			64' & 66' Banding is 60° CA.		<u> </u>			<u> </u>	<u> </u>					
	68.0	125.0	Andesite - Fine grained gray andesite tuff.					ļ						
			Random hairline fractures dominantly at 50°					ļ	ļ					
			CA filled with py,po. carb, & qtz. The		<u> </u>				ļ					
			rock has small sections of graphite and											
			black argillaceous material. Sulphides are					<u> </u>						
			disseminated & on fractures with carbonate.	ļ										
			At 124.5' to 125.0' there is a mud filled					ļ						
			shear or fault. Disseminated sulphides					ļ	ļ					
			increase to the bottom of this section.					ļ						
	125.0	157	Andesite-Ash tuff slightly more coarse					<u> </u>						
			grained than the above section. This					ļ						
			section sulphides disseminated, are up to					ļ						
			1%. Fractures are prominant at 45° to 60°					ļ						
			to CA. These fractures are often filled											
			with calcite & sulphides. 157' end of hole.						<u> </u>					

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street. - - Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole No. Rainhow-2 second log	Length 170				
Property DRR (Emerald Star)	Bearing 2400				
Project No.	01p 60°				
Commenced	Lat.				
Completed May 1986	Dep.				

Hor. Comp.

Ver. Comp.

Elch. al

True Dip

Logged by W.H. Thompson

	Elev.			Date Logged							
	,		Description	Assay No.	Assay	Analysis					
ev.	From	То	This hole was drilled through a sequence of		Length						<u> </u>
			gray andesite tuffaceous units that are	· · · · · · · · · · · · · · · · · · ·						ļ	
			pyritiferous & also contain significant								
		<u> </u>	disseminated phyrrhotite. Graphite is prom-								
			inant throughout the hole. Quartz but								
_		<u> </u>	dominantly carbonate stringers cut the core		,						
			at angles variable from parallel to the core								
		<u> </u>	axis to 900 to the core axis fracture zones								
_			are often filled with pyrite that has								
4			oxidized to Limonite.								
1	0	8	No core recovery (setting casing)								
\downarrow	8	23.0	Andesite lapilli tuff gray with darker								
_			matrix to almost black with fragments up to								
_			1 inch. micas often altered to chlorite								
_			minor desseminated pyrite & pyrrhotite								
			8-9-5 broken core.								
1	23.0	36.5	Andesite Graphitic tuff, fine grained,								
	···										
			brecciated gray to black (24'-35' fracture zone) with hairline carbonate stringers &							-	

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole	No.Rain	bow-2	second page $\frac{\text{Length}}{\text{Length}} = 0.304$	5 m)		Hor. Cor	np.				
Prope			Bearing			Ver. Con	<u> </u>		. - .		
Proje	ct No.		Dip			Elch. al					
Comm	nenced		Lat.			True Dip					
Comp	leted		Dep.			Logged					 -
			Elev.		<u> </u>	Date Lo					 T
		.,	Description	Assay No.	Assay Length		Analysis Qu Ta Qq 03/Tay				
Elev.	From .	To	veins of carbonate. The veins & shears are	ļ		44 7/a	19 /Tu				
	ļ		often pyrite & pyrrhotite filled, also								
			disseminated po. throughout core. Contact								
			70° CA (top). Lower contact 70° CA.	18-21.5		<0.003	0.6				
	36.0	50.5	Andesite-section of finer grained gray ash								}
		<u> </u>	tuff lower contact 50°CA. minor graphitic						_		
			bands to 2". 45'-46.5' fracture zone								
			limonitic fractures.								
	50.5	81.0	Andesite-mottled largely massive fine								
			grained gray material. Occasional indicat-				- /			-	
			ions of banding at 73' at 20° CA.	63'-68'		20.003	0.24				
			Occasional evidence of brecciation. There								
		ļ <u>.</u>	are also random hairline carbonate/py							-	
			stringers. The core has desseminated								
			pyrite & pyrrhotite throughout.								
	81.0	84.0	Andesite-Hornblende porphyritic grey dike								
		ļ	minor sulphides. Upper contact at 50° CA								
			with 1/16" carbonate vein. Hornblende								

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street - - - Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole	No. Rai	nbow -	2 2nd log 2nd pge Length 1 tt = 0.3	05 M)	Hor. Co	mp.						
Prop			Bearing			Ver. Co	mp.						
Proje	ct No.		Dip			Eich. a				·			
	nenced		Lal.										
Comp	leted		Dep.				- 						
		Description con't. crystal con't. co	Elev.	Assay No.	Assay	Analysis							
Elev.	From	То	con't. crystals to 1/8" long.		Length		ue Dip ogged by ate Logged						
	84.0	106 2											
	104.0	100.2	Graphitic andesite, brecciated & broken core	}	 	 -	}	┧	 	 	+		
		ļ	with mud (fault zone at 100.2 fractures 45 ⁰	·		ļ		ļ	<u> </u>	 			
			-90° to CA py & carb filled also dissemin-				<u> </u>						
			ated sulphides.						<u> </u>		ļ		
	106.2	134.0	Andesite-Lappilli tuff grey lappilli with				<u> </u>						
		•	darker almost black matrix fractures filled							<u> </u>			
		·	with sulphides (py/po) & mainly carbonate						·				
			The angle of the fractures is hetween					 			<u> </u>		
			45° & 85° to CA.					ļ	ļ	ļ			
	134.0	138.5	Andesite- fine grained ash tuff grey with					<u> </u>	ļ				
			hairline carbonate/sulphide filled fractures		,					ļ			
	138.5	155.0	Andesite - Hornblende porphyritic dike	***************************************				ļ					
			(the same as 81.0-84.0 upper contact 80°CA					<i>.</i>		ļ			
	155.0	170.0	Andesite- Graphitic ash tuff fractured &										
			broken to 170 minor py/po in fractures with										
			CaCo _z , also brecciated in sections.										
													
						1		I		i:			

INTEREX DEVELOPMENT CORP.

And the second s

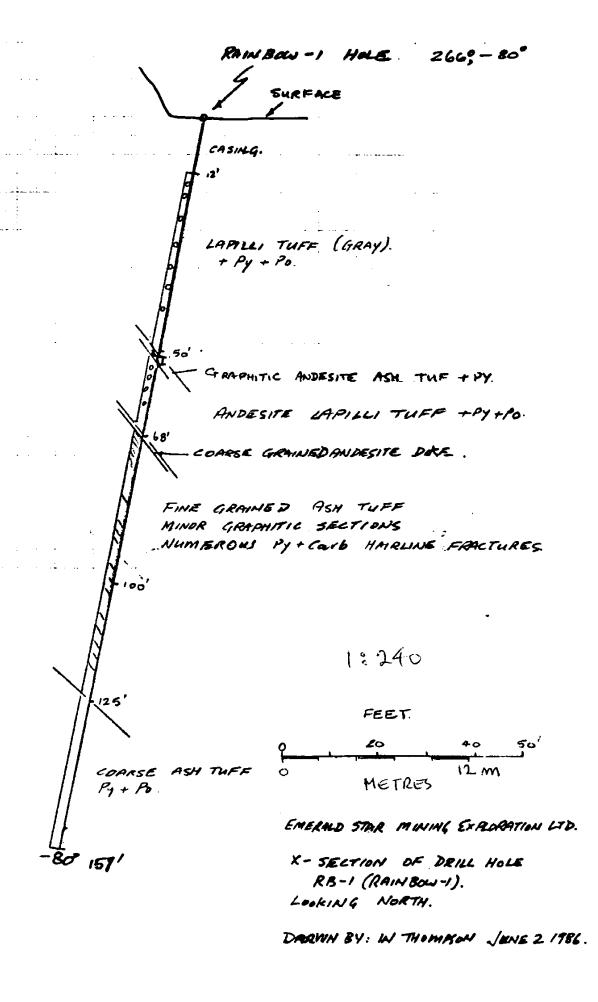
Hole No. Rainbow - 3 Property ORB (Emerald Star)	Length 173' (1 st = 0.305 m) Bearing	Hor. Comp.
Project No.	Dip 90 0	Elch. al True Dip
Completed May 1986	Dep. Elev.	Logged by W. Thompson Date Logged

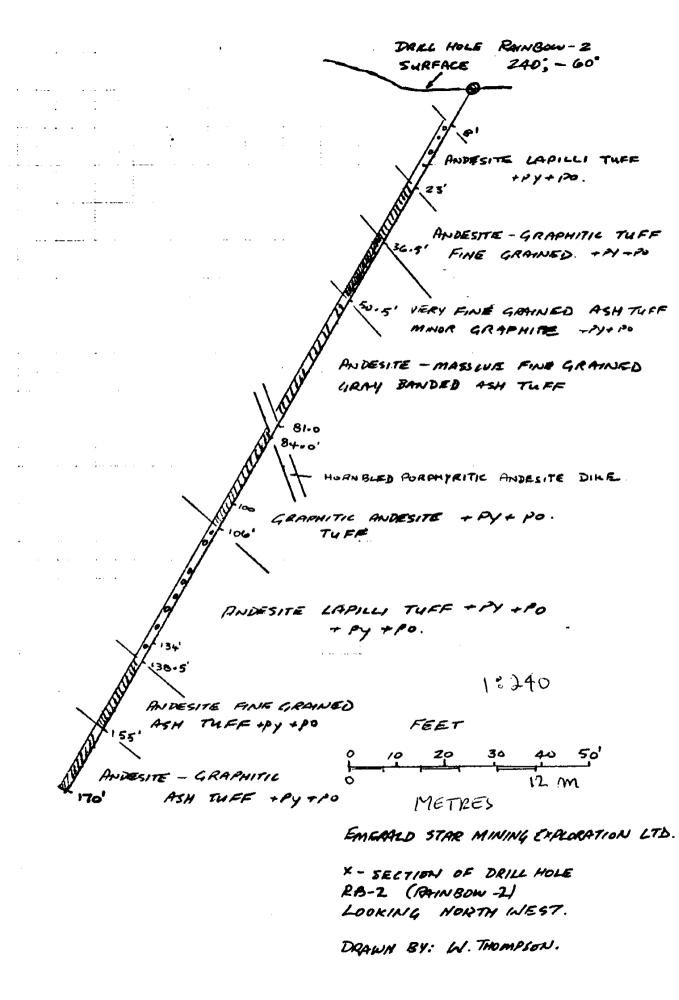
rom	1 _	Description	Assay No.	Assay	Analysis					
ıom	1	Description								
	To	This hole consists of andesitic material		Length						
)	8.5	with fractures filled with carbonate &								
		py/also both disseminated py & po setting			ļ					
		casing.								
.5	14.5	Black-ash tuff (andesite?) conchoidal fract-								
		ure- silicified fine grained.	•							
4.5	39.5	Andesite-fine grained ash tuff								!
		Minor disseminated py/po qtz-carb veins								
		(stringers) LImonite in fractures 45 ⁰ CA								
		lower contact 25 ⁰ CA								
9.5	165.0	Andesite - Fine grained with graphitic								ļ
		(grey to black) Sections & small 2' section								ļ
		of ash tuff, minor brecciated sections with								
		shearing and fractures 20-45°CA. Fractures								
	l.	often filled with py/po & carbonate		-						
from 133 to bottom 165.0' chloritic										
		alteration is more evident disseminated								
		sulphides are prominant								
	4.5	.5 14.5	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fracture-silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carb veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 2.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to bottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fracture-silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carh veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 2.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to bottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract-ure-silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carh veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 2.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to hottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract- ure- silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carh veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 9.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to hottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract-ure-silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carb veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 9.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to bottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract- ure- silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carb veios (stringers) LImonite in fractures 45°CA lower contact 25°CA 9.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to hottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract- ure- silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carh veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 9.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to hottom 165.0' chloritic alteration is more evident disseminated	py/also both disseminated py & po setting casing. .5 14.5 Black-ash tuff (andesite?) conchoidal fract- ure- silicified fine grained. 4.5 39.5 Andesite-fine grained ash tuff Minor disseminated py/po qtz-carh veins (stringers) LImonite in fractures 45°CA lower contact 25°CA 2.5 165.0 Andesite - Fine grained with graphitic (grey to black) Sections & small 2' section of ash tuff, minor brecciated sections with shearing and fractures 20-45°CA. Fractures often filled with py/po & carbonate from 133 to bottom 165.0' chloritic alteration is more evident disseminated

INTEREX DEVELOPMENT CORP.

#1003 - 470 Granville Street Vancouver, British Columbia Canada V6C 1V5 (604) 688-4155

Hole No. Rainbow - 3 con't Length (T = 0.305				5 m)	Hor. Comp.						
Prope			Bearing								
Projec	i No.		Dip			Eich. al					
Comm	enced		Lal.			True Dip)				
Comp	leted		Dep.			Logged by					
			Elev.	Elev.							
			Description	Assay No.	Assay	Analysis					
Elev. Fro	From	То	con't. 134-144.5 badly broken core with		Length	ļ		ļ			
			same 🖟 chunk of py small andesite dike at							ļ	
) .		144.5-145.0.		<u> </u>	<u> </u>		ļ			
	165	173	Andesite lapilli tuff top contact 15 ⁰ CA.								ļ
											ļ
			173' END OF HOLE.	·							
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	7.7										
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RANBOW - 3 DRILL HOLE. - 90° 173' CASING 8.51 14.5 - ANDESITE ? BLACK SILICEOUS ASH THEF? Very fine grained. +124. FINE GRAINED ANESITE PO+ PY 39.5' ANDESTE - GRAPHITIC GRAY ASH TUFF PO + PY + CARB. 100 1:240 fracture zone FEET. METRES EMERALD STAR MINING EXPLORATION ANDESITIE LAPILLI TUFF LTD. X-SECTION RB-3 (RHNBOW-3) 173 LOOKING NW. DRAWN BY: W. THUMPSON. JUNE 1986.

SURFACE

APPENDIX II

CERTIFICATES OF ASSAY FROM CHEMEX LABS

AND

KAMLOOPS RESEARCH AND ASSAY LABS LTD.

Location of 2 samples identified in report: 15 other assay results not identified - added to file.



Chemex Labs Ltd.

212 Brooksbank Ave. North Vancouver, B.C. V7J 2C1

Canada

Phone: (604) 984-0221

Telex:

043-52597

Analytical Chemists

Geochemists

Registered Assayers

CERTIFICATE OF ASSAY

TO : EMERALD STAR MINING EXPLORATION LTD.

CERT. #

: A8613234-001-A

106 - 525 SEYMOUR ST.

INVOICE # DATE

: 18613234

VANCOUVER. BC

9-JUN-86

V6B 3H9

P.O. #

: NONE

ATTN: R. SIN	ICLAIRE	CC: INT	EREX			
 Sample Pre		Ag FA	Au FA		<u></u>	
description	code	oz/T	oz/T			
RB-2 18-21-5	207	0.60	<0.003		 	
RB-2 63-68	207	0.24	<0.003	~-	 	

MAPS

- 1. LOCATION MAP
- CLAIM MAP OF THE ORB 1-5 & 7 MINERAL CLAIMS
 LOCATIONS OF DRILL HOLES DRILLED IN 1986

