BOB CREEK PROJECT

1990 DIAMOND DRILLING REPORT FOR ASSESSMENT CREDITS ON THE LORNE, CLOUD, BETH 1, NANCY H, T.D. FR AND NANCY M. FR MINERAL CLAIMS

OMINECA MINING DIVISION
NTS 93L 7/E
LAT 54° 18'N; LONG 125° 38'W

Owner of Claims: Royalstar Resources Ltd.
Operator: Noramco Explorations Inc.
Author: T.E. Lisle / W.J. Lewis
Date: April 11, 1990

TABLE OF CONTENTS

LIST OF FIGURES

APPENDICES

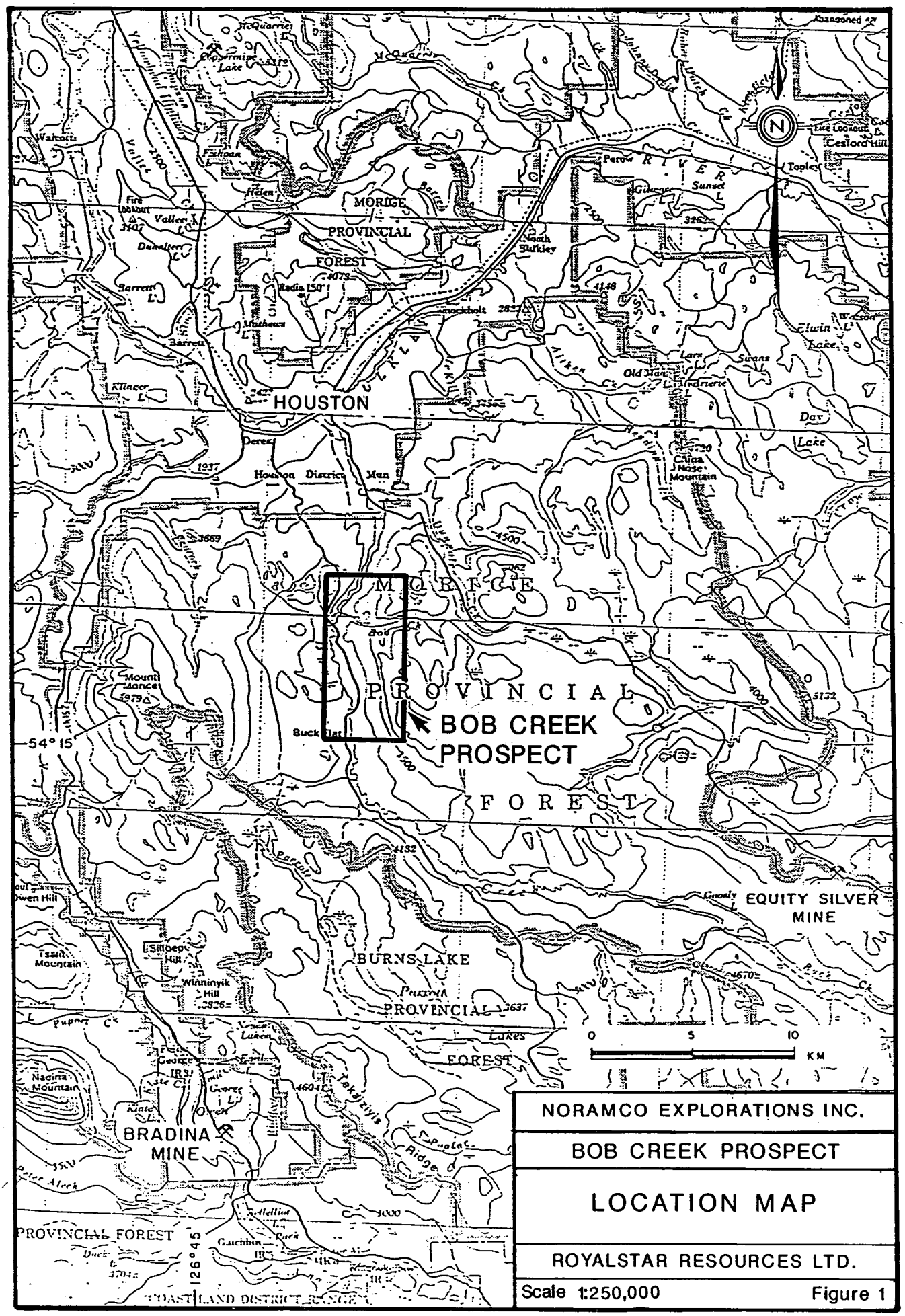
INTRODUCTION

This report was prepared in order to satisfy assessment credits applied for on the Lorne, Cloud, Beth 1, Nancy H, T.D. Fr and Nancy M. Fr mineral claims, Bob Creek Au-Ag (Zn, Cu) prospect. Direct drilling & analytical costs for hole B.C. 90-17 drilled during the period January 20-25, 1990, totalled 22,481.90. A total of 16,900.00 is allocated to cover 2-10 year's work credits on various units within the 23 metric & 2 fractional units comprising the above claims. The rest of the total sum 5,581.90; was applied to a Pac account set up for Royalstar Resources Ltd.

LOCATION AND ACCESS (See Figure 1)

The Bob Creek property is situated at latitude 54° 18'N, longitude 125° 38'W. In central British Columbia, within the Omineca Mining Division, NTS sheet 93L 7/E.

Access is via the Buck Flats road which joins the Yellowhead Highway approximately 1 - 1 1/2 kilometres west of the centre of the village of Houston. Houston lies approximately 8 - 10 kilometres north of the property. Access within the property is via private access roads and old drill haul roads suited for 4-wheel drive vehicles.



NORAMCO EXPLORATIONS INC.
BOB CREEK PROSPECT
LOCATION MAP
ROYALSTAR RESOURCES LTD.
Scale 1:250,000 Figure 1

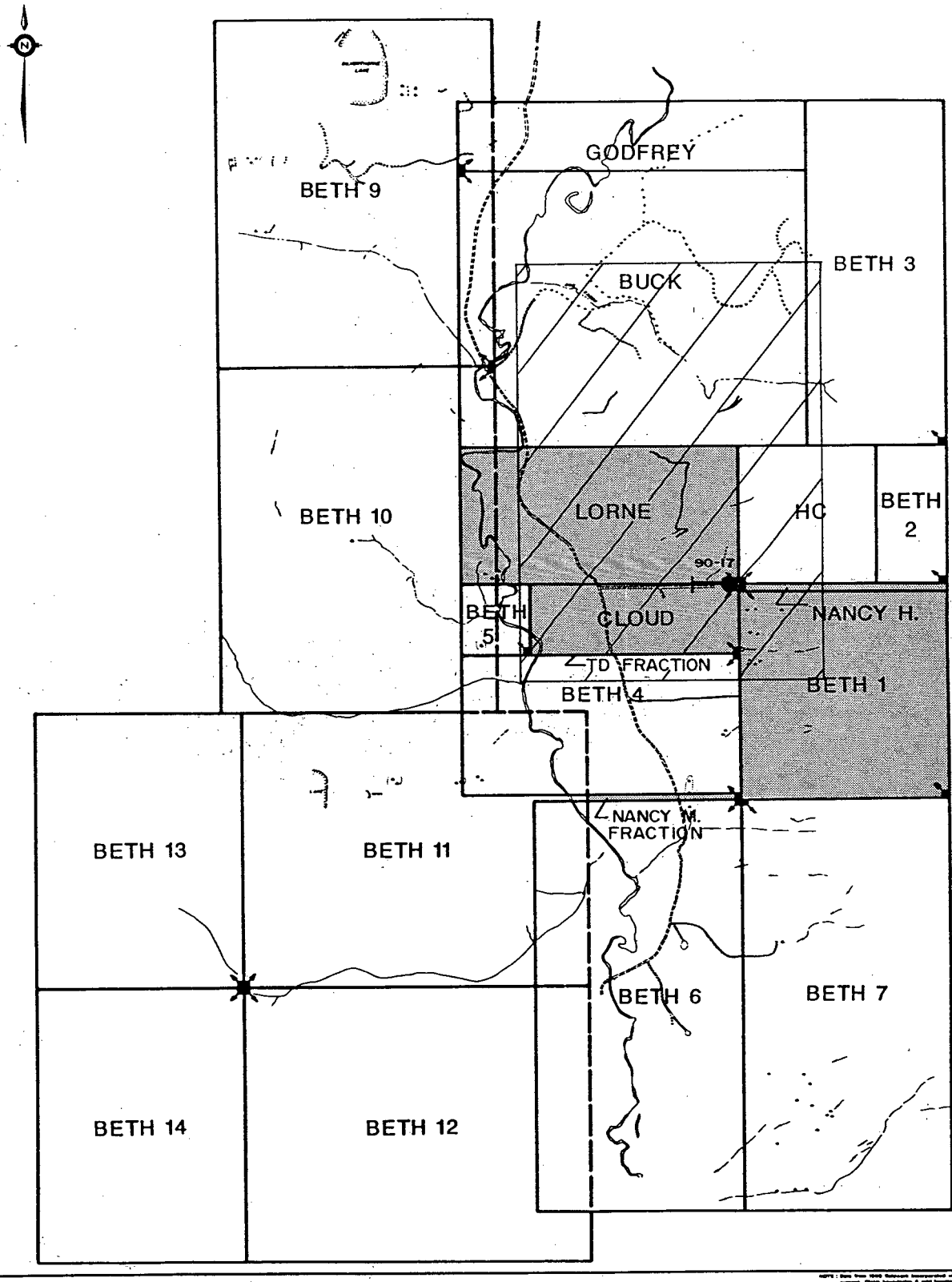
PROPERTY CLAIMS (see Figure 2)

The property contains 21 claims comprising 213 metric units and two fractions, situated in the Omineca Mining District. The claims are held under option by Royalstar Resources Ltd., Suite 900 - 999 W. Hastings St., Vancouver, B.C.

Essential claim data are as follows:-

Claim Name	Units	Record #	Anniversary Date
Godfrey	5	317	7 June 1994
Buck	20	1334	21 June 2000
Lorne	8	1333	21 June 2000*
HC	4	1335	21 June 2000
Cloud	3	812	11 October 2000*
Nancy H	3	11368	11 December 2000*
TD.Fr	1	11370	15 December 2000*
Nancy M.Fr	1	11369	11 December 2000*
Beth 1	9	3622	2 March 2000*
Beth 2	2	3623	2 March 1994
Beth 3	10	3624	2 March 1994
Beth 4	8	3625	2 March 2000
Beth 5	1	3626	2 March 2000
Beth 6	18	5526	12 August 1995
Beth 7	18	5527	12 August 1995
Beth 9	20	6833	25 January 1995
Beth 10	20	6834	25 January 1995
Beth 11	20	6835	25 January 1995
Beth 12	20	6836	25 January 1995
Beth 13	12	6837	25 January 1995
Beth 14	12	6838	25 January 1995

* Anniversary dates as per assessment credits filed on February 12, 1990 in Vancouver recording office - see Appendix 1.



90-17 Diamond drill hole

Claims for assessment credits

Location of FIGURE 3

All weather road
4-wheel drive road
Creek
Swamp
Legal corner post, mineral claim boundary

0 500 1000 1500 2000
METRES

NORAMCO EXLORATIONS INC.

BOB CREEK PROJECT
CLAIM MAP
GROUP #3

PROJ. NO. 2002 | NTS 93L/7 | DATE: Feb/90

ROYALSTAR RES. LTD. | FIG. 2

HISTORY

Placer gold was discovered in the gravels of Bob Creek about 1914 and subsequent prospecting identified gossanous and altered rocks outcropping along Bob Creek Canyon as the likely source. Over the intervening years, the property (also known as Gold Brick, Horseshoe, and Buck Creek) has been explored by several companies for deposits of various types, including high grade precious metals, volcanogenic massive sulphides, porphyry copper - molybdenum, and most recently, low grade, large tonnage epithermal precious metals.

Royalstar Resources Ltd. optioned the prospect from Bard Silver and Gold Ltd. in mid-1988 and from July 1988 to February 1989 conducted a major exploration program which culminated in 2543 meters of NQ diamond drilling over 8 holes. During the period July 1989 to February 1990 the exploration work was continued with more line cutting and induced polarization work carried out to extend the previous years work, and a further 2303.2 meters of NQ diamond drilling over 9 holes was completed.

Three separate zones, the S-13, Canyon, and South, were targeted for drill testing on the basis of geophysics and previous results. Hole B.C. 90-17 (see figures 2 and 3 for location) is situated in the south zone. The zone is characterized by a strong induced polarization anomaly with chargeability readings of up to 60 milliseconds. No outcrop occurs in the immediate area of drilling.

SUMMARY OF WORK (see figure 3 for hole locations)

Diamond drill hole B.C. 90-17 was drilled during the period January 20-24, 1990. Hole parameters are as follows:

Drill Hole:	B.C. 90-17
Core Size:	NQ
Length:	306.17 meters
Collar Azimuth:	272°
Inclination: (acid tests)	collar = -60° 91.44m = -61° 178.31m = -62° 296.88m = -60°
Elevation:	949.0 meters ASL (approx.)
Location: (with respect to Bob Creek picket line grid)	87 + 99 N 106 + 21 E

Drilling was conducted by J.T. Thomas Diamond Drilling Ltd., using a skid-mounted Longyear Super 38 rig, outfitted with NQ equipment. Drill moves employed a D-6 cat. Water was pumped from a sump previously dug in at one end of a swamp approximately 800-900 metres from the drill hole.

Analytical work was carried out by Acme Analytical Laboratories, Vancouver. Drill core was generally sampled in 1.5 metre lengths, with the entire hole length analyzed. A 30 element ICP analysis was conducted by Acme on all samples. Gold analyses from drill hole 90-17 is reported by fire assay-ICP from 10 gram samples, as current ICP techniques are reported by Acme to be comparable or more accurate than an AA finish. Diamond drill core is currently stored at the J.T. Thomas shop in Smithers.

SUMMARY OF COSTS APPLIED TO ASSESSMENT CREDITS

A total of 16,900.00 derived from 22,481.90 drilling, shop assistant and analytical costs has been applied to assessment credits. This total was determined as follows:

Drill Hole B.C. 90-17 (Jan. 20-25, 1990)

(I)	Footage Changes			
	0' - 1000'	@ 17.00 / foot	=	$17,000.00
	1000' - 1004'	@ 17.00 / foot	=	68.00
(II)	Man and Machine Hours			
	26.5 hrs	@ 21.00 / hr	=	556.50
	15.0 hrs	@ 70.00 / hr	=	1050.00
(III)	Materials Consumed		=	327.70
(IV)	Man Hours (Shop Assistant)			
	108.0 hrs	@ 13.30 / hr	+ 15% payroll burden	1,651.86
(V)	Acme Analytical Costs		=	1,827.84
			B.C. 90-17 Total Cost	$22,481.90

Supporting invoices paid to J.T. Thomas are included as Appendix II.

W.J. Lewis, B.Sc.
Noranco Explorations Inc.

DISCUSSION OF DIAMOND DRILL RESULTS

B.C. 90-17

Seven dyke or sill-like masses of fine to coarse-grained feldspar and quartz feldspar porphyry range in width from 2.35 to 33.13 m, and intrude an assemblage of siltstone, fine-grained ash tuff, and andesite tuff.

The intrusive units comprise about 30% of the hole. They are altered by carbonate with or without serecite, potassic feldspar and silica, and contain from 2% to 4% pyrite. The tuffaceous rocks are locally chloritic, hematitic or weakly silicified, and contain 1-2% pyrite.

Siliceous fractures with pyrite, galena and sphalerite occur from 50.60 to 56.69 m. and account for a clustering of high assays in that section. A second clustering of higher assay occur from 216.00 - 222.00. A weighted average of assays in these sections yielded the following:-

Interval(m)	Width(m)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
54.0- 57.0	3.0	475	4,359	9,333	18.95	445	367.5
216.0-219.0	3.0	283	972	7,733	5.05	146.5	503.0

The analytical results for the hole are summarized as follows:-

Gold content ranged to	934 ppb.	1 sample	assayed	>	500 ppb.
Silver " "	31.60 ppm.	13 samples	"	>	2.0 ppm.
Zinc " "	17,087 ppm.	12 "	"	>	1,000 ppm.
Copper " "	1,151 ppm.	5 "	"	>	500 ppm.
Lead " "	8,149 ppm.	3 "	"	>	500 ppm.
Arsenic " "	466 ppm.	4 "	"	>	300 ppm.

Although the gold assays are low, the range of assays for the six elements do not differ markedly from the results that might be expected and have been noted in other drill holes along the southerly Bob Creek trend. The high concentrations of pyrite noted in sections of the hole are believed to be a likely cause of the chargeability anomaly.

April, 1990

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA T.E. LISLE

T.E. Lisle, P.Eng.

STATEMENT OF QUALIFICATIONS

I, Thomas E. Lisle of 145 West Rockland Road in The District of North Vancouver do hereby certify:

That I am a geologist with business address at #4-1543 Lonsdale Avenue, North Vancouver, British Columbia.

That I am a graduate of the University of British Columbia and hold a Bachelor of Science degree granted in 1964.

That I am a member in good standing of:

- Geological Association of Canada
- The Canadian Institute of Mining and Metallurgy
- Association of Professional Engineers of B.C.

That with W.J. Lewis carried out field work related to the Bob Creek property from June 20 to August 22, 1989; and with W.J. Lewis and D. Silversides, expedited the drill program at Bob Creek from November 15, 1989 to January 31, 1990.

That I prepared the drill hole summaries of this report from my drill logs. The cost summaries of the project were compiled by W.J. Lewis, B.Sc. of Noramco Explorations Inc.

That I assisted in the preparation of this report describing part of the exploration program carried out at Bob Creek on behalf of Royalstar Resources Limited.

April, 1990

T.E. Lisle

STATEMENT OF QUALIFICATIONS

I, William J. Lewis of 305 - 6689 Willingdon Ave., Burnaby, B.C. do hereby certify that:

I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology, 1985.

I have practiced my profession as a geologist since 1985 in British Columbia.

I assisted in the preparation of this report describing the drill program carried out on the Bob Creek property by Noramco Explorations Inc. on behalf of Royalstar Resources Inc.

April, 1990

William J. Lewis, B.Sc.
Noramco Explorations Inc.

APPENDIX II

J.T. THOMAS DIAMOND DRILLING LTD. INVOICES

DIAMOND DRILL HOLES B.C. 89-17

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Timmins, Ont.

TO: Royal Star Resources
Suite 900 - 999 West Hastings Street
Vancouver, B.C.
V6C 2W2

Invoice No.: 90 - 1
Invoice Date: February 1, 1990
Property: Bob Creek

This is our invoice for diamond drilling to January 27, 1990.

APPROVED
INITIAL: HRS
CODE: 2002/38

DRILL: 38-14

DIAMOND DRILLING: 1038 Feet	(see attached Page One)	$ 17,646.00
MAN & MACHINE HOURS:	(see attached Page Two)	2,716.00
MATERIALS:	(see attached Page Three)	327.70
MOBILISATION/DEMOBILISATION:	For last 2 holes	1,700.00
	TOTAL:	$ 22,389.70

The above calculations are agreed to by:

D. A. Silvestri
Company Representative

John Baker
J.T. Thomas Diamond Drilling (1980) Ltd.

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Box 944
Timmins, Ont. P4N 7H5
Phone: (705) 267-6633

DIAMOND DRILLING:

Hole No.	Date	Overburden From	Overburden To	Coring From	Coring To	Total Footage	Rate	Amount
BC 89-16	January 19			771	805	34	$ 17.00	$ 578.00
BC 90-~~4~~ 17	January 20	0	25			25	17.00	425.00
				25	1000	975	17.00	16,575.00
				1000	1004	4	17.00	68.00
				TOTAL:		1038'		$ 17,646.00

FOOTAGE COSTS OF HOLE BC 90-17 = $17,068.00

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Timmins, Ont.

DATE	MORRISON	CASTLE	DYCK	MacDONALD	CAT	DRILL
January 16					4	
January 18	4	4	10	10		
January 19	6	5½			2	
			7½	7½		7½
January 20	2	2			3	n/c
January 24					4	
January 25					6	
	12	11½	17½	17½	19	7½

Total Man & Machine Hours: 66 hours @ $21.00/hour = $ 1,386.00
Total Cat Hours: 19 hours @ $70.00/hour = $ 1,330.00

TOTAL: $ 2,716.00

HOURS CHARGED TO HOLE B.C. 90-17

MAN & MACHINE AT 26.5 HOURS AT $21.00 = $556.50

CAT HOURS AT 15 HOURS AT $70.00 = $1050.00

TOTAL = $1606.5

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Box 944
Timmins, Ont. P4N 7H5
Phone: (705) 267-6633

MATERIALS USED, LOST OR DAMAGED:

Date	Quantity	Item	Cost	Amount
January 16	1	5' NW Casing (left in hole)	$ 77.70	$ 77.70
	1	NW Casing Shoe (left in hole)	250.00	250.00
			TOTAL:	$ 327.70

MATERIALS CHARGED TO HOLE B.C 90-17

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Timmins, Ont.

TO: Royal Star Resources
Suite 900 - 999 West Hastings Street
Vancouver, B.C.
V6C 2W2

Invoice No.: 90- 2
Invoice Date: February 2, 1990
Property: Bob Creek

This is our invoice for labour to January 30, 1990.

APPROVED
INITIAL: dlr
CODE: 2002 / 38

DRILL:

MAN HOURS:	(see attached Page One)	$ 1,651.86
TOTAL:		$ 1,651.86 B.C. - 17

The above calculations are agreed to by:

D. A. Silversides
Company Representative

L. M. Dougall
J.T. Thomas Diamond Drilling (1980) Ltd.

J. T. THOMAS
DIAMOND DRILLING LTD.

Box 394
Smithers, B.C.
V0J 2N0
Phone: (604) 847-4361

Branch Office
Timmins, Ont.

MAN & MACHINE HOURS:

Date	D. Rosenburg	N. Rosenburg	B. Anderson
January 6	8		
January 7	8		
January 8	4		
January 9		8	
January 10		4	
January 11		6	
January 13		8	
January 14		8	
January 15		8	
January 23		8	
January 24		8	
January 25		8	
January 26		8	
January 29			7
January 30			7
	20	74	14

Total Man Hours: 108 hours @ $13.30/hour = $ 1,436.40

Plus 15% Payroll Burden: 215.46

$ 1,651.86

J.T. THOMAS DAILY TIME REPORT

CONTRACT NAME _____ JOB No. _____

DATE _____ DAY ☐

HOLE No. _____ AFTERNOON ☐ SHOP

SIZE _____ NIGHT ☐

	FROM	TO	FEET
CORING			
OVERBURDEN			
DRILL CEMENT			
REAM CASING			

WATER LINES DISTANCE _____ FT. LIFT _____ FT.

MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS

MOBILIZATION FROM BASE TO TRUCK UNLOAD POINT

DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE

MOBILIZATION: FROM TRUCK UNLOAD POINT TO 1st HOLE

DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT

EQUIPMENT DATA

UNIT	HOURS	REMARKS
TRACTOR		
PUMP		
TRUCK		
MUD MIXER		

OPERATION		DRILL HRS.	NAME	NAME	NAME	NAME
			DRILL No.			
CORING	1					
OVERBURDEN	2	9				
CEMENTING	3	9				
REAMING CASING	4	3				
TESTING	5	8				
WATER LINES	6		8			
MOVING	7		8			
SET UP/TEAR DOWN	8	10	4			
SUPERVISION	9	24		9		
	10			4		
	11			6		
	12					
	13			9		
MIXING MUD	14			9		
HOLE STABILIZING	15			9		
T. DRIVING						
CAMP						
REPAIRS & MAINT.						
TRAVEL						
OTHER				Royal Star		
TOTAL HOURS						

TEST DEPTHS

GENERAL COMMENTS: _____

MATERIALS USED OR LOST FOR CLIENT ACCOUNT

QUANTITY	ITEM & REMARKS	APPROVAL

CUSTOMER _____ COMPANY _____

J.T. THOMAS

DAILY TIME REPORT

Shop

CONTRACT NAME _____ JOB No. _____

DATE _____ DAY ☐

H[illegible] No. _____ AFTERNOON ☐

SIZE _____ NIGHT ☐

DRILL No. [illegible] NAME [illegible] NAME [illegible] NAME Bruce Hudgens NAME

	FROM	TO	FEET
CORING			
OVERBURDEN			
DRILL CEMENT			
REAM CASING			

WATER LINES DISTANCE _____ FT. LIFT _____ FT.

MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS

MOBILIZATION FROM BASE TO TRUCK UNLOAD POINT

DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE

MOBILIZATION: FROM TRUCK UNLOAD POINT TO 1st HOLE

DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT

EQUIPMENT DATA

UNIT	HOURS	REMARKS
TRACTOR		
PUMP		
TRUCK		
MUD MIXER		

OPERATION		DRILL HRS.	HRS.	HRS.	HRS.	HRS.
CORING	Jan 15					
OVERBURDEN	16					
CEMENTING	17					
REAMING CASING	18					
TESTING	19					
WATER LINES	20					
MOVING	21					
SET UP/TEAR DOWN	22					
SUPERVISION	23		4½	4		
	24			5		
	25			5		
	26			1		
	27					
MIXING MUD	28					
HOLE STABILIZING	29				7	
T. DRIVING	30	X			7	
CAMP	31	P				
REPAIRS & MAINT.						
TRAVEL						
OTHER						
TOTAL HOURS					14	

TEST DEPTHS | |

Royal Star

GENERAL COMMENTS: _____

MATERIALS USED OR LOST FOR CLIENT ACCOUNT

QUANTITY	ITEM & REMARKS	APPROVAL

CUSTOMER _____ COMPANY _____

SEE MOORE PRINT

ACME ANALYTICAL LABORATORIES LTD.

PHONE: 253-3158 — 852 East Hastings St., Vancouver, B.C. V6A 1R6

File: 90-0285

Date: Feb 6 1990

NORAMCO EXPLORATION INC.
900 - 999 W. HASTING ST.
VANCOUVER, BC
V6C 2W2

TERMS:
NET TWO WEEKS
1½% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
	PROJECT : 2002 BOB CK.		
129	SPECIAL PRICE - 30 ELEMENT ICP ANALYSIS @	3.25	419.25
129	GEOCHEM AU ANALYSIS BY FA/ICP FROM 10 gm SAMPLE @	6.00	774.00
129	CORE SAMPLE PREPARATION @	3.00	387.00
			1580.25
	CANADIAN FREIGHTWAYS W/B #130-305442		247.59
	TOTAL		1827.84
	SAMPLES SUBMITTED BY NORAMCO - SMITHERS, BC		
	NO OTHER DISCOUNTS AVAILABLE		

PLEASE PAY LAST AMOUNT

BC-17

APPENDIX III

DRILL HOLE LOGS, SAMPLE DATA DRILL LOGS,

GEOCHEMICAL ANALYSIS CERTIFICATES

AND ASSAY CERTIFICATES

DIAMOND DRILL HOLES B.C. 89-17

DIAMOND DRILL HOLE

B.C. 90-17

DRILL LOG

DRILL LOG

HOLE NO. B.C. 90-17

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — T.E. LISLE

DRILLING CO.	LOCATION SKETCH		TESTS		DATE STARTED:	PROJECT:
J.T. Thomson Drilling Ltd.		DEPTH	DIP ANGLE	AZIMUTH	JAN. 20, 1990	2002, Bob Creek.
		COLLAR	-60°	272°	DATE COMPLETED: JAN 24, 1990.	N.T.S.: 93L/7E
					COLLAR ELEV.: ~ 949.0 m.	LOCATION:
		91.44 m	-61°		NORTHING: 8749 N.	
		178.31 m.	-62°		EASTING: 1064 21E	
		296.88m	-60°		AZIMUTH: 272°	
					DEPTH: 306.17m	DATE LOGGED: Jan 22-28, 1990
HOLE TYPE					CORE SIZE: NQ.	LOGGED BY: T.E. LISLE

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
0	7.62	OVERBURDEN.					
7.62	22.00	FELDSPAR PORPHYRY	GREY	PORPHYRITIC	CARBONATE SERICITE	3% pyrite. Trace sphalerite	- Very fine-grained porphyry with 10% carbonate-altered 1-2 mm feldspar; 2% brown to black biotite and rare quartz eyes. Groundmass is aphanitic, brownish-grey and weakly siliceous.
							- Local small patches of pervasive carbonate alteration are present.
							- Section from 15.56 to 15.85 m is weakly brecciated with 10° pyritic fractures.
							- Section from 16.30 to 22.00 m is commonly broken; with gouge ± pyrite at 17.75°, 20.70 m.
							- 3% pyrite mainly as disseminations with traces of sphalerite. Minor pyrite occurs on 30° or 65° fractures.

DRILL HOLE NO. B.C. 90-17

DRILL LOG

HOLE NO. BC-90-17.

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
22.00	46.80	ASH TUFF -	Beige -	Fine	Carbonate.	2% pyrite	Ash tuff-siltstone assemblage with 5% to 7% dark-grey to green chloritic andesite tuff, mainly in the interval 25.60 to 39.00M
		SILTSTONE -	olive -	Grained	Chlorite.		
		ANDESITE-TUFF	grey	Weakly			
				Banded			
							- The coarser andesite tuff occurs locally in 3 to 15 cm. bands bending irregularly at 45° or 70° to C.A. It more commonly occurs as wispy thread-like fracture laminations that grade to weak or strong bands 1 to 2 cm. wide and variably bending from 25° to 70° to C.A. Bedding?.
							- 44.00M. 5 cm. feldspar porphyry stringer bends at 85° to C.A.
							- Section is commonly well fractured. Over short intervals, fine dark micro-fractures and pyritic fractures produce a mottled brecciated texture. Narrow zones between 35.00 and 35.40, and 43.20 and 43.60, and at 45.60 M are well broken and locally gouge.
							- Section includes 2% pyrite, mainly as fracture fillings in the Ash-tuff-siltstone, and as dissemination in the andesitic tuff.

DRILL LOG

HOLE NO. B.C. 90-17

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
46.80	62.52	FELDSPAR PORPHYRY	GREY	PORPHYRITIC	Carbonate Weak Sericite	3%-4% Pyrite.	Fine to medium-grained porphyry, slightly coarser grained than interval 7.62-22.00M - Biotite is altered to brown muscovite. - No visible quartz eyes. - Section marked by 2%-3% soft-talcose? 2-3MM grey-green clots. - Section is commonly massive. -48.20-48.50M - Fault breccia and gouge. Trend uncertain. -48.00-51.00: Scattered but locally strong 0° to 20° fractures. - 50.70M. 1cm. gouge zone. 80° to C.A. - 51.00M. 1cm. " " , 50° to C.A. - 50.60-56.69M. Section cut by fine 5°-80° pyritic fractures locally accompanied by fine grey quartz. Short intervals lack the porphyritic texture and are more siliceous. - 54.95M. 4cm. Quartz-pyrite-galena-sphalerite zone at 30° to C.A. - 61.52-62.52M Section includes minor ash tuff clasts and is increasingly fine-grained towards bottom contact. - Bottom contact is sharp but irregular, in part, at 60° to C.A. - Section contains 2%-3% disseminated pyrite and up to 1% fracture controlled pyrite mainly in interval 51.0-56.20M. A strong 2-3cm calcite-pyrite zone occurs at 48.00M.

DRILL HOLE NO. B.C. 90-17.

DRILL LOG

HOLE NO. B.C. 90-17

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
62.52	65.30	ASH TUFF - SILTSTONE - ANDESITE TUFF	BUFF - to OLIVE GREY	FINE GRAINED	CARBONATE	2% pyrite	Section is carbonate altered, weakly brecciated, and generally, highly fractured and broken. - Mainly as in interval 22.0 to 46.80M, but slightly greener in colour with a higher component of andesite tuff. - Bottom contact is irregular, but, in part, is sharp at 70° to C.A - 2% pyrite as in section 22.0 to 46.80M
65.30	67.65	FELDSPAR PORPHYRY	Grey	Aphyritic	Carbonate Sericite.	3%-4% pyrite Trace sphalerite	Medium to coarse-grained porphyry. - 66.90-67.65M. Increasingly fine-grained & sericite-altered with pink cast. - Section is marked by 2%-3% dark grey-green clots ranging to 3 mm in diameter. - 66.80-66.90 - Gouge fracture zone. - Weak 5° to 30° pyritic fractures are marked by stong siliceous selvedges - 3% disseminated pyrite, trace sphalerite
67.65	117.50	SILTSTONE - ASH TUFF - Andesite Tuff.	Beige - Olive - grey to green	Fine Grained	Carbonate Chlorite Silica	1%-2% pyrite.	Fine-grained siltstone-ash tuff-andesite tuff assemblage, similar to section 62.52 to 65.30M. The section is highly fractured, well broken, and locally has high core loss - Small irregular zones and stringers of feldspar porphyry are present near bottom contact. - Weak quartz fractures or siliceous selvedges to pyritic fractures are present mainly below 90.00M.

DRILL LOG

HOLE NO. B.C. 90-17

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
67.65	117.50						Continued.
							1% - 2% pyrite. Pyrite occurs as dissemination in andesitic tuff, or in weak fractures.
							- 67.65 - 90.00 M.:
							Beige to olive-grey fine-grained siltstone - ash-tuff, with minor 10° - 15° gradations to coarse-grained, chloritic, grey-green andesitic tuff.
							69.30 - 71.40 M. 25cm. highly broken, brecciated, chloritic gouge zone at 25° to C.A.
							- 90.00 - 109.50 M. Siltstone - Ash tuff with 10% to 20% dark-green andesite tuff. The coarser tuff grades from chlorite - rich 5° to 30° irregularly bedded zones, to broader dark-green mottled zones a few to several centimetres wide & contain - ing small quartz and lithic clasts. These zones are locally hematitic and contain minor lapilli-sized clots of pale beige, coarse - grained tuff, texturally similar to the darker host, but having diffuse borders.
							- 109.50 - 117.50
							Ash tuff. Slightly coarser grained than in section 67.65 - 90.0. Contains minor green alteration zones as noted in 90.0 - 109.50m

DRILL HOLE NO. B.C. 90-17

DRILL LOG

HOLE NO. B.C. 90-17

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
117.50	120.55	QUARTZ FELDSPAR PORPHYRY.	GREY	PORPHYRITIC	Carbonate Sericite.	2%-3% pyrite Trace sphalerite	Section is mainly coarse-grained, but contains near the top, about 25% fine-grained, greenish-brown, sericitic quartz feldspar porphyry. - 2%-3% dark grey-green 2-4 mm clots as noted in higher intrusive sections - Siliceous pyritic selvedges or weak quartz fractures, are present mainly from 117.50-118.35; & 119.50-119.80 - 2%-3% pyrite with traces of sphalerite. 50% of pyrite is disseminated.
120.55	146.80	ASH TUFF - SILTSTONE, ANDESITE TUFF	OLIVE GREY to GREEN.	FINE GRAINED to clastic	Carbonate Silica Chlorite.	1%-2% pyrite.	Section is similar to interval above 117.50M. -120.55-126.90M Beige to olive-grey, very fine grained, highly fractured & broken. -121.40-121.60M - Quartz feldspar porphyry clasts aligned at 10° to C.A. -125.25-125.35M - Pale beige tuff. Brecciated and silicified to brown cherty tuff. with local dark-grey quartz fractures. -126.20-126.90M - Cherty siliceous zone banded at 35° to C.A. - 1%-2% pyrite, commonly fracture controlled.
						Ave. 2% pyrite.	-126.90-133.50M Section grades from fine-grained ash tuff to grey-green andesite tuff, irregularly banded at about 35° to C.A.

DRILL LOG HOLE NO. B.C. 90-17

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
							126.90 - 133.50M Continued.
							- Section includes dark-green laminations; irregular layers or clasts? of beige tuff; and intermediate zones containing up to 10% grey-green clots, ± 1mm in diameter.
							- 7-2% of section is moderately to strongly silicified along banding, or by local dark quartz fractures.
							- Pyrite is erratically distributed from trace to 4% (Average 2%) 75% is disseminated
						1%-2% pyrite	133.50 - 146.80M Siltstone - Ash Tuff
						Trace sphalerite	- 139.25 - 141.73M - Weakly mottled along 10° to 20° trend as in section 126.90 - 133.50.
							- Cuede banding at 20° to C.A.
							- Silicification as in above section but is significantly weaker.
							- Lapilli sized clasts? of brecciated pale beige tuff at 139.50M.
							- Bottom contact sharp at 35° to C.A.
							- 1%-2% pyrite. 50% is disseminated. Trace of sphalerite in carbonate fracture.
146.80	179.73	FELDSPAR PORPHYRY	Grey to pale-grey.	Porphyritic	Carbonate Potassic. Sericite?	2%-3% pyrite. Trace Arsenopyrite?	Medium to coarse grained. Grey to pink-grey with short (<2%) dark grey siliceous sections.
							± 163.70 - 165.60 Porphyry is fine-grained and near 164.75M, is brecciated, silicified, and coloured green to orange by sericitic and potassic alteration.

DRILL LOG

HOLE NO. B.C. 90-17

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
146.80	179.73						Continued.
							- Scattered pyritic fractures with gray siliceous selvedges.
							- Conspicuous 0.5 to 1.0 cm. 45° gray quartz veins with very fine dark sulphide (arsenopyrite)? at 149.0 and 157.40m.
							- 165.50m. Gray-green tuff clast.
							- Section is commonly massive with short broken intervals.
							- 153.01 - 154.60 - Narrow gouge 10°-20° shear.
							- 170.90 - 171.30m - Gouge shows at 10°-35° to C.A.
							- 172.00m - - Gouge 35° pyritic shear.
							- 171.50m - Siliceous 25° pyritic shearing
							- 177.20 - 177.90m - Broken, gouge 10°-35° pyritic shear
							- 2% - 3% pyrite, 75% is disseminated.
179.73	182.70	Ash TOFF - Andesite Tuff.	Gray to Green.	Fine Grained	Chlorite. Hematite.	1% - 2% pyrite.	Interbedded ash tuff - andesite tuff generally are in assemblages 67.65 - 117.50m and 120.55 to 146.80m.
							- Unit is highly mottled. Coarser grained tuff locally shows larger lithic clasts and contains minor hematite. Green colouration is due to chlorite, but variations in colour indicate epidote may also be present.
							- Bottom contact is broken.
							- 1% - 2% pyrite, locally rimming clast-like diffuse masses.

DRILL LOG HOLE NO. B.C. 90-17

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
182.70	185.90	Ash Tuff.	Beige	Very Fine Grained	Weak chloritic.	Trace Pyrite.	Massive, very fine grained beige ash tuff. Unit is slightly darker-grey with calcic amygdules? Aligned at 55° to C.A near bottom - 2% small (±1mm) grey feldspar amygdules. - Weak chloritic fractures. - Pervasive carbonate ? - Bottom contact at 55° to C.A. - Rare trace pyrite.
185.90	229.00	Ash Tuff - Andesite Tuff.	Grey to Green-Grey	Fine Grained to banded.	Chlorite Carbonate.?		Slightly coarser grained ash tuff than the ash tuff higher in the hole. - Colour is grey to greenish-grey with gradations to paler grey (carbonate)? from 195.50 to 196.50; 198.00 to 199.00; 210.0 to 210.60 and 220.50 to 222.20m. - Green colouration is due to pervasive chlorite and chloritic fractures..
						1% pyrite.	-185.90 - 195.30M Mainly fine-grained silty ash tuff with darker grey-green to local beige horizons. Section is cut by random, and by 25° to 35° chloritic fractures ± pyrite - Banding not evident.
						2%-3% pyrite. Trace Sphalerite Trace Galena. Trace chalcopyrite.	-195.30 - 229.00M Coarse-grained Andesite Tuff. - Section marked by 1 to 10 mm pale grey bedding (flow banding)? lamination ranging from 40° to 70° but commonly from 35°-55° to C.A. These layers are locally siliceous, and rocky accompanied by weak orange alteration.

DRILL LOG HOLE NO. B.C. 90-17.

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
185-90	229.00						Continued:
							- Section has local conspicuous broken zones marked by chloritic fractures ± pyrite, ± gouge. Fractures tend to be steep at 10° to 20° to C.A.
							- Pyrite is present on thin fractures marked by grey siliceous selvedges, or in thin carbonate fractures with traces of sphalerite and galena. After 195.30M, 75% of the pyrite is disseminated.
229.00	266.25	ASH TUFF	Green-Grey	Fine to Very Fine Grained	Chloride Carbonate.	2%-3%? pyrite.	ASH Tuff, silty and fine-grained, with coarser andesitic tuff in the interval 259.50 to 261.00M.
							- Colour grades from green-grey to beige-grey in silty zones. Section lacks the laminations of the overlying unit, but locally has crude banding at 35° to 80° to C.A.
							— 231.04 - 232.00M Pale, pinkish-grey, locally brecciated with calcite. Weakly banded at 50° with calcite, pyrite and trace of sphalerite. Top contact is a broken gouge chloritic fault?
							- 232.0 - 248.00M - Gradation from green fine-grained tuff to slightly pink-grey very fine-grained silky ash tuff with numerous fractures. Section contains irregular dark-green chloritic zones, and diffuse clots to 15 cm. in diameter of soft, beige, carbonate-rich? tuff.

DRILL HOLE NO. B.C. 90-17

DRILL LOG HOLE NO. _____

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
229.00	266.25						Continued: - 248.00 - 266.25 Ash tuff is commonly banding with local coarse calcite. After 262.2, section is mottled and crudely banded. Pyrite is highly variable in its distribution. It is locally concentrated with carbonate, and may constitute up to 20% of weakly-scattered clast-like masses. These pyritic masses have diffuse borders, are locally aligned at 30°-45° to c.a. and are mainly less than, but locally measure up to 10 cm. in diameter. Pyrite also occurs on fractures locally with carbonate and traces of sphalerite. Approximately 50% of pyrite is disseminated.
266.25	280.60	(Quartz)? Feldspar Porphyry	Greenish-Grey	Porphyritic	Carbonate. Sericite.	2% 3% pyrite.	Medium to coarse-grained. Rock contains 8%-10% (2-5 mm) carbonate-sericite altered feldspar; 2%-3% brown muscovite; rare quartz eyes; and 5%-10% dark-grey 2-5 mm clots that may in part be altered biotite. Section is linear-grained near contacts. - 275.50M - Weak 20° clay-altered shear. - 277.0M - Irregular calcite fractures. - 2%-3% pyrite, mainly disseminated.

DRILL HOLE NO. B.C. 90-17

DRILL LOG HOLE NO. BC 90-17

INTERVAL METRES. FROM	TO	LITHOLOGY ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
280.60	294.22	ASH TUFF.	Grey to Brown	Fine-Grained	chlorite.	2%-3% pyrite.	Fine-grained Ash Tuff, grading from greenish grey to brown. - 286.40-291.00M Greenish grey crudely banded, and carbonate altered. Banding results from an alignment of dark grey-green chloritic? (1-3MM) clots that are locally concentrated in crude irregular laminations at 50° to 60° to C.A. - Calcite occurs as coarse 10CM. breccia fillings at 285.60 and 289.70M. - Section is locally well broken. - Pyrite is highly variable, as in interval 229.0-266.25M. Average 2%-3% mainly as disseminations.
294.22	306.17	FELDSPAR PORPHYRY	BEIGE GRAY	PORPHYRITIC.	Carbonate Sericite. Chlorite?	3% pyrite Tr. sphalerite	Medium to coarse-grained feldspar porphyry with local variations to finer grained porphyry. The feldspars are carbonate and sericite altered. - Trace to 3% dark grey, 1-3MM chloritic clots that are locally highly altered biotite. - Section is commonly massive. - 3% pyrite, mainly disseminated. - Traces of sphalerite as disseminations or weak fracture coatings.
	306.17						END OF HOLE

DRILL HOLE NO. B.C. 90-17.

DIAMOND DRILL HOLE

B.C. 90-17

SAMPLE DATA DRILL LOG

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LABS

SAMPLE (METRES)				CORE			VISUAL ESTIMATES	ASSAY RESULTS						
NUMBER	FROM	TO	LENGTH	% REC	RQD	S.G.	(% ORE MINERALS)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au** ppb	
48201	7.62	9.00	1.38	78%	3-10cm pcs			51	52	353	1.3	30	100	
48202	9.00	10.50	1.50	78%	massive 5-30cm			36	15	17	0.3	18	107	
48203	10.50	12.00	1.50	93%	3-26cm.			308	86	444	1.1	49	208	
48204	12.00	13.50	1.50	85%	3-15cm pcs			215	95	202	1.1	88	98	
48205	13.50	15.00	1.50	67%	1-10cm pcs			237	55	239	0.9	79	89	
48706	15.00	16.50	1.50	80%	1-8cm pcs Covery fly fr			255	27	199	0.4	165	157	
48207	16.50	18.00	1.50	80%	Highly Broken 1cm-7cm pcs			355	11	117	0.5	60	226	
48208	18.00	19.50	1.50	93%	1-3cm pcs Highly broken			91	2	28	0.2	67	73	
48209	19.50	21.00	1.50	85%	1-3cm pcs Highly Broken			49	4	18	0.2	28	39	
48210	21.00	22.50	1.50	87%	"			99	12	34	0.6	77	32	
48211	22.50	24.00	1.50	100%	1-15cm pcs. loc well broken			15	2	34	0.2	126	44	
48212	24.00	25.50	1.50	100%	3-15cm pcs well broken			20	5	30	0.1	44	27	
48213	25.50	27.00	1.50	99%	1-25cm pcs more massive			47	7	26	0.1	28	21	
48214	27.00	28.50	1.50	100%	1-15cm pcs loc. well broken			10	3	32	0.1	20	21	
48215	28.50	30.00	1.50	90%	1-15cm pcs loc well broken			30	10	31	0.1	22	20	
48216	30.00	31.50	1.50	97%	1-15cm pcs loc. broken			17	3	18	0.1	26	13	
48217	31.50	33.00	1.50	90%	1-15cm pcs well broken			87	2	22	0.1	32	20	
48218	33.00	34.50	1.50	92%	1-20cm pcs well broken			20	2	26	0.1	45	11	
48219	34.50	36.00	1.50	97%	1-15cm pcs loc well broken			28	2	29	0.1	43	12	
48220	36.00	37.50	1.50	94%	1-35cm pcs loc. broken			1151	4	38	1.5	61	97	
48221	37.50	39.00	1.50	99%	1-15cm pcs loc well broken			50	4	20	0.1	65	14	
48222	34.00	40.50	1.50	100%	1-12cm pcs very loc. pcs			132	6	28	0.5	126	13	
48223	40.50	42.00	1.50	95%	1-15cm pcs			84	4	36	0.7	96	22	
48224	42.00	43.50	1.50	100%	1-7cm pcs loc fr broken			201	4	33	0.9	121	24	
48225	43.50	45.00	1.50	100%	1-7cm pcs highly broken			110	3	20	0.3	64	18	
48226	45.00	46.50	1.50	99%	1-7cm pcs Highly broken			165	7	25	1.4	83	41	
48227	46.50	48.00	1.50	97%	1-15cm pcs Highly broken			108	2	40	0.3	55	32	
48228	48.00	49.50	1.50	100%	2-10cm pcs Fault zone			130	4	24	0.2	61	83	
48229	49.50	51.00	1.50	100%	1-15cm pcs loc well broken			110	5	25	0.2	42	59	
48230	51.00	52.50	1.50	100%	2-15cm pcs			374	58	265	1.1	466	93	
48231	52.50	54.00	1.50	100%	2-30 cm pcs			356	161	395	2.5	426	102	

Au** - ANALYSIS BY FA+ICP FROM 10 gm SAMPLE

DRILL HOLE NO. BC-90-17

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LABS

SAMPLE (METRES.)				CORE			VISUAL ESTIMATES	ASSAY RESULTS					
NUMBER	FROM	TO	LENGTH	% REC	ROD	S.G.	(% ORE MINERALS)	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB
48232	54.0	55.50	1.50	100%	3-20cm pieces moderate		*	567	8149	17087	31.6	427	475
33	55.50	57.00	1.50	100%	2-30cm Pieces			383	569	1579	6.3	463	260
34	57.00	58.50	1.50	100%	1-30cm pieces Loc. Broken			293	65	149	1.0	65	64
35	58.50	60.00	1.50	100%	1-10cm pieces Loc. Broken			234	18	52	1.0	39	48
36	60.00	61.50	1.50	100%	3-20cm pieces moderate			546	12	47	1.0	31	74
37	61.50	63.00	1.50	96%	1-15cm pieces Loc. Broken			154	24	71	0.8	155	32
38	63.00	64.50	1.50	99%	1-10cm pieces Highly Broken			71	11	41	1.0	97	34
39	64.50	66.00	1.50	100%	1-30cm Pieces Broken at top.			73	24	35	0.6	57	49
48240	66.00	67.50	1.50	100%	1-20cm pieces Loc. Gouge Seam			82	43	185	1.6	81	102
41	67.50	69.00	1.50	85%	1-10cm Pieces well Broken			57	8	22	2.1	44	60
42	69.00	70.50	1.50	81%	1-8cm pieces Highly Broken			118	2	22	0.8	43	25
43	70.50	72.00	1.50	95%	1-10cm pieces Loc Highly Broken			38	37	188	2.7	56	41
44	72.00	73.50	1.50	100%	1-20cm pieces Sharp Fr.			28	42	90	6.2	56	66
45	73.50	75.00	1.50	99%	1-15cm pieces Loc Broken			25	6	27	1.2	69	18
46	75.00	76.50	1.50	71%	1-5cm pieces Highly broken			90	4	22	0.4	49	23
47	76.50	78.00	1.50	73%	2 to 5cm V. Highly broken			54	16	39	0.8	40	23
48	78.00	79.50	1.50	81%	1-10cm pieces Highly broken			61	12	28	0.8	37	18
49	79.50	81.00	1.50	97%	1-8cm pieces V. Highly broken			217	10	26	0.5	88	12
48250	81.00	82.50	1.50	98%	1-5cm pieces Highly Broken			44	6	33	0.4	55	9
48251	82.50	84.00	1.50	87%	1-10cm pieces Highly Broken 1-15cm pieces			58	10	21	0.2	23	8
52	84.00	85.50	1.50	100%	Broken			10	34	24	0.3	34	85
53	85.50	87.00	1.50	81%	2-20cm pieces Broken			56	51	116	0.1	27	28
54	87.00	88.50	1.50	77%	1-10cm pieces Broken			38	5	19	0.1	18	2
55	88.50	90.00	1.50	91%	1-10cm pieces Highly broken			32	4	19	0.2	20	6
56	90.00	91.50	1.50	87%	1-10cm pieces Highly broken 3-20cm pieces			51	56	26	0.3	22	13
57	91.50	93.00	1.50	87%	1-5cm pieces V. Highly broken			28	11	44	0.6	6	13
58	93.00	94.50	1.50	24%	1-20cm Highly broken			26	5	15	0.3	22	7
59	94.50	96.00	1.50	39%	1-15cm pieces Broken			103	8	22	0.2	15	15
48260	96.00	97.50	1.50	70%	1-25cm pieces Loc. Broken			82	10	26	0.1	13	10
61	97.50	99.00	1.50	95%	1-15cm pieces Broken.			155	2	26	0.2	7	14
48262	99.00	100.50	1.50	100%				164	9	24	0.3	18	22

* METALLIC ASSAY OR ASSAY SEE PAGE 7

Au** - ANALYSIS BY FA & ICP FROM 10 Gm SAMPLE

DRILL HOLE NO. B.C 90-17.

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LABS

SAMPLE METRES				CORE			VISUAL ESTIMATES	ASSAY RESULTS						
NUMBER	FROM	TO	LENGTH	% REC	RQD	S.G.	(% ORE MINERALS)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au** ppb	
48263	100.50	102.00	1.50	100%	1-15cm pieces Broken			27	10	47	0.4	19	16	
64	102.00	103.50	1.50	100%	3-35cm pieces			248	6	41	0.5	7	19	
65	103.50	105.00	1.50	100%	1-30cm pieces Broken			59	2	7	0.1	8	12	
66	105.0	106.50	1.50	100%	2-45cm pieces broken			119	4	13	0.2	23	16	
67	106.50	108.00	1.50	100%	1-45cm pieces well broken			171	15	41	0.4	50	43	
68	108.0	109.50	1.50	92%	1-15cm pieces well broken			169	21	139	1.0	124	55	
69	109.50	111.00	1.50	91%	1-12cm pieces well broken			167	16	110	0.4	44	4	
48270	111.00	112.50	1.50	97%	1-15cm pieces loc. Broken			218	4	46	0.6	69	56	
71	112.50	114.00	1.50	100%	2-35cm pieces loc. Broken			63	3	36	0.3	56	22	
72	114.00	115.50	1.50	94%	1-22cm pieces Broken			167	2	17	0.4	41	23	
73	115.50	117.00	1.50	94%	1-12cm pieces Broken			338	49	238	0.8	64	50	
74	117.00	118.50	1.50	95%	2-15cm pieces well broken			33	67	269	0.8	53	36	
75	118.50	120.00	1.50	92%	1-10cm pieces Broken			28	10	44	0.5	17	1	
76	120.00	121.50	1.50	71%	1-10cm pieces Broken			13	128	266	1.1	110	34	
77	121.50	123.00	1.50	58%	1-8cm pieces well broken			45	107	256	3.2	7	49	
78	123.0	124.50	1.50	73%	1-10cm pieces well broken			44	10	54	0.2	5	3	
79	124.50	126.00	1.50	96%	1-10cm pieces broken			76	16	52	0.6	17	3	
48280	126.0	127.500	1.50	100%	1-20cm pieces well broken			394	172	1037	26	78	35	
81	127.50	129.00	1.50	100%	3-15cm pieces			374	6	55	0.5	30	32	
82	129.0	130.50	1.50	100%	3-25cm pieces			103	6	54	0.5	35	19	
83	130.50	132.00	1.50	100%	3-25cm pieces			127	19	165	0.7	54	39	
84	132.0	133.50	1.50	100%	3-30cm pieces			113	10	62	0.4	62	20	
85	133.50	135.00	1.50	100%	1-10cm pieces broken			10	2	2	0.1	2	37	
86	135.00	136.50	1.50	100%	3-20cm pieces loc. well broken			172	3	15	0.4	25	37	
87	136.50	138.0	1.50	100%	1-70cm pieces well broken			177	15	18	0.6	15	3	
88	138.00	139.50	1.50	99%	1-135cm pieces well broken			66	4	17	0.3	25	24	
89	139.50	141.00	1.50	100%	3-20cm pieces			134	139	427	0.9	48	51	
48290	141.00	142.50	1.50	97%	1-10cm pieces Broken			21	10	20	0.2	8	5	
91	142.50	144.00	1.50	97%	1-15cm pieces well broken			48	6	10	0.4	20	11	
92	144.00	145.50	1.50	99%	1-10cm pieces well broken			67	5	16	0.1	21	15	
48293	145.50	147.00	1.50	87%	1-15cm pieces Highly broken			39	6	14	0.3	21	6	

** - ANALYSIS BY FA+ICP FROM 10 GM SAMPLE

DRILL HOLE NO. B.C. 90-17.

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LAB

SAMPLE NUMBER	FROM (METRES)	TO	LENGTH	% REC	RQD	S.G.	VISUAL ESTIMATES (% ORE MINERALS)	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB
48294	147.0	148.5	1.50	100%	1-12 cm pieces Highly broken			178	18	115	0.5	44	11
95	148.5	150.0	1.50	100%	5-20 cm pieces			33	11	60	0.3	3	4
96	150.0	151.5	1.50	99%	3-30 cm pieces			14	19	19	0.5	2	6
97	151.5	153.0	1.50	99%	1-20 cm pieces			15	22	29	0.6	5	10
98	153.0	154.5	1.50	99%	1-10 cm piece Crumbly broken			45	46	165	1.0	23	11
99	154.5	156.0	1.50	99%	1-20 cm piece 1 oc well broken			7	23	70	0.3	4	6
48300	156.0	157.5	1.50	100%	3-25 cm pieces			9	13	81	0.2	7	6
48301	157.5	159.0	1.50	100%	3-20 cm pieces Stem Fr.			15	8	34	0.2	6	5
2	159.0	160.5	1.50	96%	5-30 cm pieces			11	16	76	0.4	5	18
3	160.5	162.0	1.50	96%	2-35 cm pieces			9	9	42	0.3	5	13
4	162.0	163.5	1.50	100%	2-25 cm pieces			14	18	83	0.3	8	11
5	163.5	165.0	1.50	100%	2-25 cm pieces			8	187	334	0.6	5	18
6	165.0	166.5	1.50	98%	1-20 cm. pieces			10	69	30	0.5	5	8
7	166.5	168.0	1.50	98%	5-20 cm pieces			10	56	57	0.3	7	13
8	168.0	169.5	1.50	99%	3-20 cm pieces			5	9	15	0.1	11	11
9	169.5	171.0	1.50	100%	1-12 cm pieces 1 oc gouge-broken			10	10	12	0.2	3	5
48310	171.0	172.5	1.50	100%	1-15 cm pieces 1 oc Gouge-Broken			17	263	1066	1.2	112	100
11	172.5	174.0	1.50	100%	5-25 cm pieces			22	12	106	0.3	10	11
12	174.0	175.5	1.50	100%	1-25 cm. pieces			12	7	122	0.3	2	6
13	175.5	177.0	1.50	100%	3-35 cm pieces			15	8	37	0.4	5	4
14	177.0	178.5	1.50	100%	1-15 cm pieces			7	13	23	0.5	15	3
15	178.5	180.0	1.50	100%	1-12 cm pieces			17	8	80	0.2	26	5
16	180.0	181.5	1.50	100%	3-30 cm pieces			37	8	41	0.4	50	10
17	181.5	183.0	1.50	88%	1-20 cm pieces 1 oc well broken			17	10	24	0.1	33	4
18	183.0	184.5	1.50	75%	5-40 cm pieces			36	10	63	0.1	27	7
19	184.5	186.0	1.50	87%	2-35 cm. pieces			44	14	123	0.1	52	2
48320	186.0	187.5	1.50	91%	2-12 cm pieces Highly broken			59	9	77	0.2	111	2
21	187.5	189.0	1.50	95%	2-12 cm pieces Highly broken			71	3	43	0.2	75	7
22	189.0	190.5	1.50	95%	2-15 cm pieces well broken			63	14	54	0.3	69	13
23	190.5	192.0	1.50	99%	2-25 cm pieces 1 oc. well broken			248	9	53	1.4	129	184
48324	192.0	193.5	1.50	100%	1-7 cm pieces well broken		*	370	25	97	2.2	226	373

* METALLIC ASSAY ON ASSAY SEE PAGE 7

** - ANALYSIS BY FA+ICP FROM LOG OR SAMPLE

DRILL HOLE NO. B.C. 90-17.

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LAB

SAMPLE METRES				CORE			VISUAL ESTIMATES	ASSAY RESULTS						
NUMBER	FROM	TO	LENGTH	% REC	RQD	S.G.	(% ORE MINERALS)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au^{FA} ppb	
48325	193.5	195.0	1.50	100%	1-15cm pieces well broken.			66	9	46	0.8	121	25	
26	195.0	196.5	1.50	99%	1-10cm pieces well broken			77	24	86	1.0	68	39	
27	196.5	198.0	1.50	88%	1-10cm pieces Highly broken			233	2	49	0.3	20	24	
28	198.0	199.5	1.50	99%	1-12cm pieces loc Highly broken			87	19	168	0.6	78	10	
29	199.5	201.0	1.50	99%	1-10cm pieces loc V. highly Broken			53	32	317	0.7	28	16	
48330	201.0	202.5	1.50	98%	1-15cm pieces Highly broken			33	7	28	0.2	10	1	
31	202.5	204.0	1.50	100%	2-15cm pieces loc. broken			93	6	60	0.3	21	8	
32	204.0	205.5	1.50	98%	1-12cm pieces			18	18	365	0.3	23	29	
33	205.5	207.0	1.50	91%	1-15cm pieces			21	9	161	0.4	19	11	
34	207.0	208.5	1.50	97%	1-12cm pieces			31	129	70	0.8	16	7	
35	208.5	210.0	1.50	100%	1-18cm pieces			107	27	68	0.7	50	17	
36	210.0	211.5	1.50	97%	1-20cm pieces loc. well broken			90	233	1126	1.0	81	23	
37	211.5	213.0	1.50	93%	1-35cm pieces			55	24	63	0.3	85	18	
38	213.0	214.5	1.50	85%	1-30cm pieces			23	10	58	0.3	58	12	
39	214.5	216.0	1.50	86%	1-15cm pieces loc. N. broken			55	77	736	0.5	58	18	
48340	216.0	217.5	1.50	99%	1-15cm pieces loc. Broken		*	346	423	*10588	5.2	190	934	
41	217.5	219.0	1.50	99%	1-35cm pieces			220	1521	4878	4.9	103	72	
42	219.0	220.5	1.50	100%	2-15cm pieces			130	782	609	0.9	41	20	
43	220.5	222.0	1.50	100%	2-15cm pieces			234	24	2201	1.0	23	46	
44	222.0	223.5	1.50	93%	1-15cm pieces loc. well broken			130	4	52	0.2	32	19	
45	223.5	225.0	1.50	99%	1-10cm pieces well broken			87	4	49	0.3	33	12	
46	225.0	226.5	1.50	100%	1-15cm pieces loc. well broken			52	3	36	0.1	28	9	
47	226.5	228.0	1.50	98%	2-30cm pieces			91	8	73	0.2	47	16	
48	228.0	229.5	1.50	98%	1-30cm pieces			109	7	112	0.3	68	22	
49	229.5	231.0	1.50	99%	1-12cm pieces well broken			86	34	204	0.6	73	5	
48350	231.0	232.5	1.50	100%	1-12cm pieces Highly broken			177	344	4167	29	144	127	
51	232.5	234.0	1.50	94%	1-10cm pieces loc. Hi broken			192	112	972	1.4	98	18	
52	234.0	235.5	1.50	89%	2-10cm pieces broken			141	5	79	0.4	78	7	
53	235.5	237.0	1.50	98%	2-20cm pieces			824	19	39	0.7	72	42	
54	237.0	238.5	1.50	98%	3-18cm pieces			275	10	39	0.1	69	33	
48355	238.5	240.0	1.50	100%	1-15cm pieces loc Hi Broken			232	271	479	0.9	122	51	

* METALLIC ASSAY OR ASSAY SEE PAGE 7

Au^{FA} - ANALYSIS BY FA+ICP FROM 10 GM SAMPLE

DRILL HOLE NO. B.C.80-17.

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LAB

SAMPLE METRES				CORE			VISUAL ESTIMATES	ASSAY RESULTS						
NUMBER	FROM	TO	LENGTH	RQD	% REC.	S.G.	(% ORE MINERALS)	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB	
48356	240.0	241.5	1.50	<1 to 20cm frag. Loc. Ht Broken	100%			105	9	27	0.3	66	4	
57	241.5	243.0	1.50	1-35cm pieces	100%			59	2	44	0.3	61	18	
58	243.0	244.5	1.50	3-30cm pieces	100%			50	2	41	0.1	42	9	
59	244.5	246.0	1.50	5-20cm pieces	100%			71	5	25	0.1	47	8	
48360	246.0	247.5	1.50	2-20cm pieces Loc Broken	96%			57	6	15	0.2	44	9	
61	247.5	249.0	1.50	1-45cm pieces Loc well broken	96%			405	191	1459	2.8	1.44	123	
62	249.0	250.5	1.50	1-35cm pieces	99%			61	3	25	0.2	55	13	
63	250.5	252.0	1.50	1-25cm pieces	99%			216	16	36	0.7	52	18	
64	252.0	253.5	1.50	3-30cm pieces	99%			133	11	38	0.3	60	10	
65	253.5	255.0	1.50	1-25cm "	99%			136	2	24	0.3	40	5	
66	255.0	256.5	1.50	3-35cm pieces Loc Highly Broken	99%			169	42	88	0.7	88	19	
67	256.5	258.0	1.50	1-12cm pieces Loc well broken	98%			389	9	91	1.0	106	23	
68	258.0	259.5	1.50	2-35cm pieces	97%			262	13	55	0.3	78	18	
69	259.5	261.0	1.50	5-35cm pieces	99%			61	24	100	0.4	60	19	
48370	261.0	262.5	1.50	2-40cm pieces	100%			259	36	82	1.0	50	3	
71	262.5	264.0	1.50	5-25cm pieces	100%			398	225	1097	1.7	134	19	
72	264.0	265.5	1.50	1-12cm pieces Loc well broken	100%			157	40	240	0.7	56	7	
73	265.5	267.0	1.50	1-25cm pieces Loc well broken	100%			672	12	39	1.6	50	19	
74	267.0	268.5	1.50	1-12cm pieces Loc Ht Broken	100%			373	257	584	1.4	9	7	
75	268.5	270.0	1.50	1-15cm pieces Loc well broken	100%			228	363	566	1.6	30	19	
76	270.0	271.5	1.50	10-30cm pieces	100%			195	357	560	1.5	30	22	
77	271.5	273.0	1.50	1-15cm pieces Loc Broken	99%			121	28	61	0.5	7	10	
78	273.0	274.5	1.50	10-25cm pieces	98%			123	9	20	0.6	8	1	
79	274.5	276.0	1.50	1-15cm pieces Loc Broken	98%			279	24	102	0.5	8	33	
48380	276.0	277.5	1.50	2-15cm pieces	98%			335	141	27	0.6	9	53	
81	277.5	279.0	1.50	1-18cm pieces Loc Broken	98%			376	21	112	1.2	8	35	
82	279.0	280.5	1.50	5-25cm pieces	100%			412	11	47	0.8	10	28	
83	280.5	282.0	1.50	1-30cm pieces Loc Ht Broken	100%			117	5	18	0.2	43	5	
84	282.0	283.5	1.50	1-35cm pieces Loc Broken	100%			216	12	31	0.6	85	1	
85	283.5	285.0	1.50	1-15cm pieces Loc Ht Broken	100%			63	6	19	0.2	51	12	
48386	285.0	286.5	1.50	<10cm pieces Highly broken	99%			64	9	19	0.2	53	1	

** Au - ANALYSIS BY FA+ICP FROM 10GM SAMPLES

DRILL HOLE NO. B.C.90-17

SAMPLE DATA DRILL LOG

ASSAY LAB: ACME ANALYTICAL LAB

SAMPLE (METRES)				CORE			VISUAL ESTIMATES	ASSAY RESULTS						
NUMBER	FROM	TO	LENGTH	% REC	RQD	S.G.	(% ORE MINERALS)	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB	
48387	286.5	288.0	1.50	97%	1-15cm pieces for Hq Cy Barrel			22	7	22	0.2	8	3	
88	288.0	289.5	1.50	99%	2-45cm pieces			106	2	21	0.2	25	2	
89	289.5	291.0	1.50	99%	1-45cm piece rest all broken			107	8	20	0.5	30	12	
48390	291.0	292.5	1.50	100%	5-35cm pieces			102	10	25	0.2	34	3	
91	292.5	294.0	1.50	99%	2-30cm pieces			66	2	26	0.2	38	18	
92	294.0	295.5	1.50	97%	3-30cm pieces			24	31	64	0.4	9	6	
93	295.5	297.0	1.50	97%	1-35cm pieces			17	402	1600	1.2	10	14	
94	297.0	298.5	1.50	100%	3-15cm pieces			6	41	81	0.5	6	11	
95	298.5	300.0	1.50	100%	5-30cm pieces			5	39	105	0.4	22	22	
96	300.0	301.5	1.50	100%	1-35cm pieces Bottom Broken			10	66	402	0.4	34	33	
97	301.5	303.0	1.50	100%	1-30cm pieces			9	53	165	0.5	66	23	
98	303.0	304.5	1.50	100%	1-15cm pieces			6	42	70	0.7	30	22	
99	304.5	306.17	1.67	100%	5-35cm pieces			7	43	95	1.3	15	31	
—	—	END	OF	HOLE	—									
48232	54.0	55.5	1.5m	100%						1.81%	0.87 oz/T		0.005 oz/T	
48324	192.0	193.5	1.5m	100%									0.007 oz/T	
48340	216.0	217.5	1.5m	99%						1.15%			0.009 oz/T	

PAGE 7 OF 7.

** Au - ANALYSIS BY FA + ICP FROM 10 GM SAMPLE

DRILL HOLE NO. B-C-90-17

DIAMOND DRILL HOLE

B.C. 90-17

GEOCHEMICAL ANALYSIS CERTIFICATES

AND ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 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 LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JAN 30 1990 DATE REPORT MAILED: Feb 1/90 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Noramco Exploration Inc. PROJECT 2002 BOB CK. File # 90-0253 Page 1

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
A 48201	3	51	52	353	1.3	7	8	1536	3.45	30	5	ND	3	6	2	2	4	3	.76	.085	3	2	.18	35	.01	4	.41	.01	.25	1	100
A 48202	3	36	15	17	.3	5	10	1051	3.22	18	5	ND	3	9	1	2	6	4	1.03	.061	3	4	.28	37	.01	5	.40	.01	.25	1	107
A 48203	2	308	86	444	1.1	6	9	1318	4.16	49	5	ND	3	7	3	2	2	5	.47	.058	3	4	.25	40	.01	2	.46	.01	.27	1	208
A 48204	2	215	95	202	1.1	6	10	1493	4.09	88	5	ND	3	5	1	2	2	5	.34	.062	4	5	.24	48	.01	9	.53	.01	.30	1	98
A 48205	2	237	55	239	.9	5	7	1422	4.40	79	5	ND	3	4	2	2	4	4	.22	.062	3	4	.22	48	.01	4	.47	.01	.27	1	89
A 48206	3	255	27	199	.9	5	11	931	4.45	165	5	ND	3	6	1	2	4	4	.20	.060	3	3	.19	40	.01	2	.40	.01	.22	1	157
A 48207	3	355	11	117	.5	5	10	1291	4.11	60	5	ND	3	9	1	2	8	6	.48	.056	3	5	.29	41	.01	3	.41	.01	.25	1	226
A 48208	5	91	2	28	.2	6	10	1357	3.62	67	6	ND	3	11	1	2	4	5	1.03	.060	3	6	.32	38	.01	4	.39	.01	.24	1	73
A 48209	3	49	4	18	.2	5	10	1571	4.00	28	5	ND	3	12	1	2	4	5	1.02	.059	3	4	.30	31	.01	3	.42	.01	.24	1	39
A 48210	8	99	12	34	.6	39	12	1149	4.05	77	5	ND	3	10	1	2	4	8	.78	.065	3	7	.32	46	.01	3	.44	.01	.25	1	32
A 48211	6	15	2	34	.2	91	17	567	3.17	126	5	ND	1	11	1	2	2	15	.21	.049	3	16	.32	77	.01	4	.46	.01	.21	2	44
A 48212	2	20	5	30	.1	115	18	431	4.06	44	5	ND	1	12	1	2	3	18	.13	.028	5	22	.38	66	.01	4	.55	.01	.20	1	27
A 48213	5	47	7	26	.1	110	15	356	4.67	28	5	ND	1	18	1	2	2	32	.22	.055	5	39	.60	99	.01	3	1.63	.02	.27	2	21
A 48214	3	10	3	32	.1	108	14	298	3.77	20	5	ND	1	17	1	2	2	25	.14	.048	4	33	.52	84	.01	7	1.71	.03	.25	1	21
A 48215	2	30	10	31	.1	129	11	426	5.70	22	5	ND	1	14	1	2	2	38	.07	.018	4	43	.85	79	.01	3	2.44	.03	.22	2	20
A 48216	1	17	3	18	.1	113	11	243	3.48	26	5	ND	1	14	1	2	2	23	.08	.025	6	28	.52	78	.01	2	1.64	.03	.21	1	13
A 48217	1	87	2	22	.1	97	14	279	4.08	32	5	ND	1	14	1	2	2	24	.09	.031	5	28	.56	77	.01	2	1.58	.02	.23	1	20
A 48218	2	20	2	26	.1	97	18	315	4.44	45	5	ND	1	14	1	2	2	26	.12	.033	6	31	.59	72	.01	3	1.31	.02	.20	1	11
A 48219	1	28	2	29	.1	123	15	477	5.60	43	5	ND	1	18	1	2	2	31	.19	.068	6	34	.74	77	.01	5	1.74	.02	.22	1	12
A 48220	2	1151	4	38	1.5	198	69	711	9.63	61	5	ND	1	22	1	2	4	32	.26	.120	3	40	.82	61	.01	3	2.29	.02	.24	1	97
A 48221	3	80	4	20	.1	139	15	195	3.73	65	5	ND	1	11	1	2	2	19	.13	.044	5	27	.43	65	.01	2	.97	.01	.22	1	14
A 48222	4	132	6	28	.5	160	16	292	2.81	126	5	ND	2	11	1	2	8	18	.10	.035	9	23	.41	76	.01	2	.98	.01	.26	1	13
A 48223	3	84	4	36	.7	113	10	538	3.49	96	5	ND	2	13	1	2	2	21	.13	.046	7	24	.52	82	.01	4	1.00	.01	.27	1	22
A 48224	6	201	4	33	.9	163	16	319	3.48	121	5	ND	2	12	1	2	2	15	.19	.057	5	12	.43	60	.01	3	.56	.01	.21	1	24
A 48225	3	110	3	20	.3	81	9	312	2.30	64	5	ND	2	11	1	2	2	7	.27	.042	4	5	.13	57	.01	3	.39	.01	.20	1	18
A 48226	4	165	7	25	1.4	120	10	316	2.42	83	5	ND	1	8	1	2	3	10	.17	.044	3	9	.12	70	.01	2	.52	.01	.27	1	41
A 48227	8	108	2	40	.3	43	7	1392	3.20	55	6	ND	3	10	1	2	4	9	.69	.066	4	8	.30	62	.01	3	.55	.01	.30	1	32
A 48228	6	130	4	24	.2	6	6	1314	5.09	61	5	ND	2	21	1	2	4	5	1.69	.072	4	6	.43	36	.01	2	.39	.01	.21	1	83
A 48229	4	110	5	25	.2	5	6	1042	3.47	42	5	ND	2	17	1	2	2	5	1.30	.080	5	4	.35	44	.01	5	.45	.01	.20	1	59
STD C/AU-R	18	57	43	130	6.6	67	30	938	3.86	41	22	8	38	48	19	15	19	58	.46	.098	38	55	.81	175	.07	40	1.83	.06	.14	12	495

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
A 48230	19	374	58	265	1.1	6	10	1224	4.58	466	5	ND	2	9	1	11	10	5	.65	.073	6	3	.17	60	.01	4	.54	.01	.27	1	93
A 48231	36	356	161	395	2.5	5	12	1812	5.03	426	7	ND	3	7	1	17	8	5	.46	.072	4	3	.15	55	.01	4	.53	.01	.30	1	102
A 48232	18	567	8149	17087	31.6 ✓	7 ✓	9	659	7.42	427	5	ND	2	7	69	38	6	4	.44	.061	3	3	.13	31	.01	2	.47	.01	.27	3	475
A 48233	15	383	569	1579	6.3	4	15	976	8.74	463	5	ND	2	6	5	18	16	4	.48	.067	3	5	.16	26	.01	2	.63	.01	.35	1	260
A 48234	17	293	65	149	1.0	3	8	1354	4.45	65	5	ND	3	10	1	2	13	5	1.16	.072	4	4	.33	78	.01	5	.62	.01	.37	1	64
A 48235	8	234	18	52	1.0	3	10	964	4.66	39	5	ND	3	13	1	2	3	6	1.24	.074	3	4	.40	53	.01	4	.65	.01	.36	1	48
A 48236	19	546	12	47	1.0	4	12	1405	3.99	31	5	ND	3	14	1	2	6	6	1.34	.069	5	5	.44	75	.01	4	.67	.01	.36	1	74
A 48237	9	154	24	71	.8	54	17	1980	4.65	155	5	ND	2	7	1	4	2	11	.32	.050	4	8	.20	80	.01	3	.74	.01	.41	1	32
A 48238	15	71	11	41	1.0	114	18	1339	4.93	97	5	ND	2	13	1	2	2	27	.63	.170	5	29	.33	98	.01	4	.95	.01	.45	1	34
A 48239	9	73	24	35	.6	58	12	1432	4.21	57	5	ND	1	14	1	2	2	13	.99	.051	3	13	.37	72	.01	2	.63	.01	.35	1	49
A 48240	2	82	43	185	1.6	9	10	1694	5.06	81	6	ND	2	12	1	2	3	6	1.06	.070	3	3	.31	59	.01	3	.64	.01	.36	1	102
A 48241	15	57	8	22	2.1	83	13	1187	3.69	44	5	ND	2	8	1	2	2	17	.46	.043	4	18	.29	97	.01	4	.85	.01	.45	1	60
A 48242	15	118	2	22	.8	85	14	969	2.49	43	5	ND	2	8	1	2	2	18	.24	.033	7	18	.24	112	.01	4	.83	.01	.42	1	25
A 48243	11	38	37	188	2.7	85	12	828	2.71	56	5	ND	2	11	1	2	2	18	.23	.025	7	16	.25	115	.01	3	.95	.01	.41	1	41
A 48244	16	28	42	90	6.2	110	12	1091	3.68	56	5	ND	2	14	1	2	2	17	.41	.020	5	17	.29	107	.01	4	.78	.01	.41	1	66
A 48245	11	25	6	27	1.2	114	14	910	2.81	69	5	ND	2	9	1	2	2	17	.22	.018	5	22	.27	111	.01	6	.77	.01	.39	1	18
A 48246	21	90	4	22	.4	79	13	571	2.35	49	5	ND	2	10	1	2	2	17	.41	.024	7	16	.28	96	.01	5	.78	.01	.38	1	23
A 48247	21	54	16	39	.8	76	14	897	5.28	40	5	ND	1	14	1	2	2	34	.58	.056	4	31	.48	87	.01	4	.90	.01	.32	1	23
A 48248	17	61	12	28	.8	97	15	851	3.73	37	5	ND	1	15	1	2	2	25	.48	.057	6	28	.44	101	.01	5	.99	.01	.47	1	18
A 48249	20	217	10	26	.5	140	23	1026	2.96	88	5	ND	2	12	1	2	2	25	.39	.047	6	21	.32	101	.01	3	.87	.01	.42	1	12
A 48250	12	44	6	33	.4	87	12	751	3.48	55	5	ND	2	11	1	2	2	29	.33	.025	5	23	.41	111	.01	3	.93	.02	.40	2	9
A 48251	17	58	10	21	.2	61	6	505	3.15	23	5	ND	2	11	1	2	2	32	.44	.045	6	24	.38	106	.01	3	1.09	.02	.43	1	8
A 48252	21	10	34	24	.3	57	13	573	2.90	34	5	ND	1	15	1	2	2	12	.56	.024	3	7	.28	78	.01	3	.77	.02	.35	1	85
A 48253	8	56	51	116	.1	43	9	275	2.51	27	5	ND	1	20	1	2	2	15	.66	.036	5	10	.44	95	.01	5	1.20	.02	.32	1	28
A 48254	11	38	5	19	.1	39	7	238	2.05	18	5	ND	1	13	1	2	2	16	.37	.033	6	11	.28	87	.01	4	.92	.02	.34	1	2
A 48255	13	32	4	19	.2	58	14	201	3.32	20	5	ND	2	13	1	2	2	19	.47	.045	4	13	.31	59	.01	4	1.02	.02	.35	1	6
A 48256	24	51	56	26	.3	61	18	521	4.24	22	5	ND	1	16	1	2	2	24	.71	.027	5	17	.44	65	.01	6	1.06	.01	.30	1	13
A 48257	55	28	11	44	.6	74	15	907	9.47	6	5	ND	1	32	1	2	2	40	1.13	.065	4	27	.82	42	.01	2	1.11	.02	.22	1	13
A 48258	42	26	5	15	.3	42	9	391	2.15	22	5	ND	1	16	1	2	2	17	.62	.027	5	11	.35	101	.01	4	.96	.02	.35	1	7
A 48259	11	103	8	22	.2	61	15	213	4.35	15	5	ND	1	23	1	2	2	35	.25	.019	4	23	.56	128	.01	2	2.02	.03	.31	1	15
A 48260	12	82	10	26	.1	63	9	221	4.97	13	5	ND	1	27	1	2	2	40	.38	.062	6	27	.69	94	.01	2	2.17	.04	.27	1	10
A 48261	32	155	2	26	.2	67	16	224	4.63	7	5	ND	1	27	1	2	7	39	.31	.022	5	22	.65	138	.01	2	2.19	.04	.32	1	14
A 48262	54	164	9	24	.3	53	20	274	3.83	18	5	ND	1	25	1	3	2	26	.59	.039	5	16	.47	104	.01	2	1.62	.03	.35	2	22
A 48263	56	27	10	47	.4	48	13	688	7.46	19	5	ND	1	20	1	2	2	39	.60	.043	4	27	.71	58	.01	3	1.84	.02	.40	1	16
A 48264	25	248	6	41	.5	49	23	522	10.31	7	5	ND	1	43	1	2	2	40	1.23	.063	4	38	.88	28	.01	3	1.73	.03	.40	1	19
A 48265	16	59	2	7	.1	27	14	327	3.31	8	5	ND	1	26	1	2	2	9	1.16	.024	5	8	.39	41	.01	3	.70	.02	.31	1	12
STD C/AU-R	17	57	42	131	6.9	67	30	949	4.00	41	19	8	36	47	18	15	22	57	.47	.093	36	55	.85	174	.06	40	2.00	.06	.14	12	480

✓ ASSAY RECOMMENDED

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
A 48266	16	119	4	13	.2	47	16	258	3.91	23	5	ND	1	24	1	2	2	27	.32	.038	5	14	.29	91	.01	3	1.12	.03	.35	1	16
A 48267	22	171	15	41	.4	69	24	485	3.78	50	5	ND	1	28	1	2	3	29	.17	.018	5	13	.22	95	.01	8	1.05	.03	.36	1	43
A 48268	29	169	21	129	1.0	81	20	1048	11.05	124	5	ND	1	28	1	2	2	65	.45	.037	4	35	.67	44	.01	10	2.15	.02	.35	1	55
A 48269	16	167	16	110	.4	74	14	894	5.70	44	5	ND	1	17	1	2	3	39	.23	.017	4	16	.23	44	.01	5	.80	.02	.33	1	4
A 48270	16	218	4	46	.6	69	24	1243	4.98	69	5	ND	1	23	1	2	3	26	.29	.037	4	16	.31	66	.01	6	.85	.02	.37	1	56
A 48271	24	63	3	36	.3	69	16	825	5.21	56	5	ND	2	26	1	2	4	31	.40	.028	4	20	.33	69	.01	9	1.00	.02	.32	1	22
A 48272	20	167	2	17	.4	73	41	291	2.43	41	5	ND	1	15	1	2	3	13	.18	.030	6	8	.15	69	.01	6	.85	.02	.39	1	23
STD C/AU-R	17	58	36	131	7.1	66	30	941	4.03	42	19	8	36	47	19	14	19	57	.46	.094	36	55	.80	174	.06	41	1.98	.06	.14	12	530

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 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 LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: FEB 2 1990 **DATE REPORT MAILED:** Feb 6/90 **SIGNED BY.** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Noramco Exploration Inc. PROJECT 2002 BOB CK. File # 90-0285 Page 1

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
A 48273	23	338	49	238	.8	51	20	334	1.87	64	5	ND	3	17	2	5	2	12	.13	.016	3	7	.11	71	.01	4	.60	.02	.35	1	50
A 48274	7	33	67	269	.8	12	5	1634	2.66	53	6	ND	3	25	3	3	2	10	.86	.078	3	3	.30	68	.01	8	.72	.01	.40	1	36
A 48275	5	28	10	44	.5	13	6	615	3.00	17	7	ND	3	20	1	2	3	8	1.03	.082	3	2	.32	95	.01	10	.92	.01	.55	2	1
A 48276	11	13	128	266	1.1	24	5	805	3.49	110	9	ND	3	17	1	2	3	11	.44	.058	4	6	.21	79	.01	6	.79	.01	.53	1	34
A 48277	16	45	107	256	3.2	23	5	737	.96	7	5	ND	3	17	1	2	4	10	.32	.033	8	6	.13	54	.01	5	.65	.01	.42	1	49
A 48278	22	44	10	54	.2	24	6	265	.78	5	5	ND	3	20	1	2	2	7	.19	.014	8	5	.07	48	.01	7	.58	.01	.35	1	3
A 48279	15	76	16	52	.6	31	6	182	.86	17	5	ND	2	13	1	7	2	6	.16	.017	7	4	.08	42	.01	5	.47	.01	.31	1	3
A 48280	18	394	172	1037	2.6	63	18	792	3.23	38	5	ND	3	14	5	5	2	16	.63	.034	5	9	.36	78	.01	6	.94	.01	.60	1	35
A 48281	42	374	6	55	.5	50	19	1114	4.47	30	5	ND	2	43	1	2	2	34	1.46	.076	4	17	.73	67	.01	6	.90	.02	.42	1	32
A 48282	67	103	6	54	.5	44	12	1235	4.24	35	5	ND	3	38	1	2	2	33	1.05	.079	5	16	.55	60	.01	8	.86	.01	.40	1	19
A 48283	37	127	19	165	.7	46	12	2100	4.98	54	6	ND	3	33	1	2	2	37	1.06	.048	4	17	.58	60	.01	7	.84	.01	.45	1	39
A 48284	57	113	10	62	.4	46	13	1101	3.82	62	5	ND	4	41	1	2	2	36	.99	.124	6	18	.49	79	.01	7	.90	.01	.39	1	20
A 48285	16	10	2	2	.1	17	10	107	.40	2	5	ND	3	13	1	2	2	6	.21	.033	11	5	.09	46	.01	3	.49	.01	.33	2	37
A 48286	11	172	3	15	.4	58	21	324	2.18	25	5	ND	3	25	1	2	2	16	.42	.025	5	8	.26	52	.01	5	.67	.03	.36	1	37
A 48287	57	177	15	18	.6	41	22	134	1.00	15	5	ND	3	12	1	2	2	8	.21	.020	8	7	.13	60	.01	6	.63	.01	.39	1	3
A 48288	6	66	4	17	.3	26	11	418	1.66	25	5	ND	3	15	1	2	2	21	.34	.040	7	13	.24	78	.01	5	.88	.01	.50	1	24
A 48289	109	134	139	427	.9	40	11	1472	3.27	48	5	ND	2	25	2	2	2	19	1.28	.038	4	12	.53	61	.01	6	.82	.01	.45	1	51
A 48290	6	21	10	20	.2	42	10	528	1.10	8	5	ND	2	7	1	2	2	15	.24	.034	7	12	.17	84	.02	4	.97	.02	.65	1	5
A 48291	10	48	6	10	.4	37	6	363	.89	20	5	ND	2	9	1	2	2	11	.20	.022	6	6	.14	66	.01	3	.75	.01	.51	1	11
A 48292	11	67	5	16	.1	48	7	576	1.31	21	5	ND	2	12	1	2	2	19	.31	.014	6	13	.26	108	.02	5	1.01	.02	.60	2	15
A 48293	2	39	6	14	.3	55	6	563	1.44	21	5	ND	3	9	1	2	2	21	.15	.031	6	16	.24	137	.02	5	1.12	.02	.65	1	6
A 48294	20	178	18	115	.5	83	17	965	2.53	44	5	ND	4	26	1	2	2	26	.82	.077	6	15	.49	135	.02	8	1.33	.01	.72	1	11
A 48295	26	33	11	60	.3	33	13	779	2.82	3	5	ND	3	28	1	2	2	7	1.11	.086	3	4	.34	57	.01	9	.71	.01	.41	1	4
A 48296	57	14	19	19	.5	13	11	723	2.62	2	5	ND	3	36	1	2	2	5	1.53	.073	4	3	.22	61	.01	12	.83	.01	.46	1	6
A 48297	25	15	22	29	.6	16	8	919	2.46	5	5	ND	2	47	1	2	3	5	2.03	.080	4	3	.17	40	.01	9	.65	.01	.34	1	10
A 48298	64	45	46	165	1.0	23	11	980	3.34	23	5	ND	2	43	1	3	2	5	1.57	.111	2	2	.18	57	.01	11	.80	.01	.44	1	11
A 48299	144	7	23	70	.3	15	8	1002	1.97	4	5	ND	3	36	1	2	2	5	1.98	.084	3	3	.15	42	.01	9	.70	.01	.40	1	6
A 48300	9	9	13	81	.2	10	6	742	2.01	7	5	ND	2	36	1	2	3	4	1.49	.073	5	3	.14	55	.01	11	.74	.01	.42	1	6
A 48301	7	15	8	39	.2	11	7	765	2.17	6	5	ND	2	42	1	2	2	4	1.78	.076	4	3	.21	69	.01	11	.60	.01	.32	1	5
A 48302	5	11	16	76	.4	8	5	527	2.21	5	5	ND	3	40	1	2	3	3	1.13	.073	5	4	.16	56	.01	11	.58	.01	.25	1	18
A 48303	18	9	9	42	.3	7	7	667	2.52	5	5	ND	3	47	1	2	2	3	1.62	.076	7	2	.23	54	.01	10	.46	.01	.22	1	13
A 48304	8	14	18	83	.3	6	7	550	2.69	8	5	ND	2	52	1	2	3	3	1.69	.077	7	3	.19	50	.01	9	.54	.01	.24	1	11
A 48305	10	8	187	334	.6	7	7	1190	2.47	5	5	ND	3	45	1	2	2	3	2.09	.067	6	3	.16	61	.01	7	.50	.01	.28	1	18
A 48306	8	10	63	30	.5	11	8	1801	2.14	5	5	ND	3	65	1	2	2	5	3.04	.065	7	4	.25	68	.01	11	.52	.01	.25	1	8
A 48307	18	10	56	57	.3	8	8	1704	2.08	7	5	ND	2	52	1	2	3	3	2.43	.074	6	2	.25	64	.01	8	.45	.01	.23	1	13
A 48308	4	5	9	15	.1	11	6	2072	1.75	11	5	ND	3	63	1	2	2	5	2.56	.076	7	4	.32	71	.01	9	.53	.03	.25	1	11
STD C/AU-R	17	60	44	132	7.2	67	30	946	3.77	41	20	7	38	48	18	16	22	60	.44	.098	38	56	.86	171	.07	41	1.94	.06	.14	12	530

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
A 48309	6	10	10	12	.2	10	7	2366	2.16	3	5	ND	3	68	1	2	2	6	2.28	.081	8	4	.44	37	.01	20	.85	.04	.46	1	5
A 48310	4	17	263	1066	1.2	10	8	1249	5.27	112	5	ND	4	37	4	5	2	6	1.07	.070	4	5	.17	49	.01	12	.86	.01	.64	1	100
A 48311	11	22	12	106	.3	7	9	2664	2.62	10	5	ND	3	65	1	2	2	5	2.70	.076	5	3	.24	55	.01	21	.99	.01	.57	1	11
A 48312	3	12	7	122	.3	8	6	1639	2.40	2	5	ND	3	67	1	2	2	5	2.70	.079	6	3	.24	34	.01	17	.76	.01	.43	1	6
A 48313	5	15	8	37	.4	7	6	2258	2.34	5	5	ND	3	75	1	2	2	5	2.96	.078	7	3	.25	44	.01	14	.86	.01	.54	2	4
A 48314	27	7	13	23	.5	14	17	1828	4.12	15	5	ND	3	39	1	2	2	5	1.64	.066	3	3	.25	51	.01	9	.85	.01	.62	1	3
A 48315	9	17	8	80	.2	26	10	1328	2.76	26	5	ND	3	47	1	2	2	10	1.40	.077	5	6	.59	69	.01	9	.83	.01	.55	1	5
A 48316	5	37	8	41	.4	111	26	569	4.96	50	5	ND	4	39	1	5	2	27	1.67	.272	6	14	.78	80	.01	9	1.74	.02	.88	2	10
A 48317	2	17	10	24	.1	72	16	447	3.51	33	5	ND	3	48	1	3	2	25	1.21	.108	5	14	.88	125	.01	5	1.70	.02	.77	2	4
A 48318	2	36	10	63	.1	21	11	717	4.48	27	5	ND	6	114	1	2	2	67	2.77	.158	15	29	1.70	70	.01	7	1.98	.01	.06	1	7
A 48319	2	44	14	123	.1	30	13	616	3.42	52	5	ND	7	97	1	2	2	69	2.34	.102	14	38	1.32	149	.01	8	1.40	.01	.09	1	2
A 48320	3	59	9	77	.2	97	23	674	4.29	111	5	ND	3	32	1	2	2	26	.67	.076	4	14	.67	109	.01	5	1.62	.02	.71	1	2
A 48321	4	71	3	43	.2	98	19	717	4.36	75	5	ND	3	26	1	2	2	29	.63	.101	5	20	.67	120	.01	5	1.72	.02	.76	1	7
A 48322	6	63	14	54	.3	90	16	699	3.94	69	5	ND	3	28	1	2	2	28	.78	.207	6	15	.72	120	.01	4	1.75	.02	.67	1	13
A 48323	4	248	9	53	1.4	99	17	978	5.25	129	5	ND	3	26	1	3	2	27	.35	.066	6	17	.77	105	.01	5	1.54	.02	.48	1	184
A 48324	5	370	25	97	2.2	113	21	606	6.39	226	5	ND	3	22	1	6	3	21	.61	.051	3	20	.55	47	.01	5	1.27	.02	.76	1	373
A 48325	4	66	9	46	.8	97	15	778	4.45	121	5	ND	5	27	1	7	2	29	.54	.070	5	18	.71	135	.01	5	1.50	.02	.61	2	25
A 48326	5	77	24	86	1.0	67	18	698	3.47	68	5	ND	4	12	1	3	2	18	.52	.056	5	18	.48	114	.02	7	1.50	.02	.92	1	39
A 48327	3	233	2	49	.3	50	12	523	3.17	20	5	ND	1	36	1	2	2	17	1.29	.030	3	22	.87	91	.01	5	1.18	.02	.75	1	24
A 48328	11	87	19	168	.6	84	24	633	5.28	78	5	ND	3	25	1	3	2	34	.82	.077	4	33	.82	92	.01	6	1.88	.02	.78	1	10
A 48329	10	53	32	317	.7	57	25	632	5.51	28	5	ND	2	20	1	2	2	18	1.13	.036	3	21	.76	83	.02	7	1.45	.02	.92	1	16
A 48330	2	33	7	28	.2	61	13	743	3.24	10	5	ND	3	17	1	2	2	23	.90	.056	6	25	.72	124	.02	6	1.88	.02	1.16	1	1
A 48331	4	93	6	60	.3	62	9	704	2.86	21	5	ND	3	20	1	2	2	28	1.11	.059	6	29	.83	139	.02	6	1.76	.02	1.05	1	8
A 48332	2	18	18	365	.3	79	27	510	5.26	23	5	ND	3	15	1	2	2	20	.88	.067	4	18	.67	84	.02	11	1.51	.02	.98	1	29
A 48333	5	21	9	161	.4	60	17	611	3.47	19	5	ND	4	14	1	4	2	19	.97	.049	5	19	.66	100	.02	4	1.43	.02	.97	1	11
A 48334	3	31	129	70	.8	62	9	795	2.81	16	5	ND	4	14	1	3	2	23	1.11	.052	6	23	.73	111	.02	5	1.51	.02	1.02	1	7
A 48335	8	107	27	68	.7	73	19	755	3.92	50	5	ND	4	26	1	4	2	27	1.20	.053	5	23	.81	99	.01	6	1.37	.02	.83	2	17
A 48336	5	90	233	1126	1.0	80	20	581	4.82	81	5	ND	2	20	5	2	2	19	.60	.054	3	19	.56	75	.01	3	1.08	.01	.61	1	23
A 48337	1	55	24	63	.3	94	40	1031	6.86	85	5	ND	2	32	1	2	2	34	1.03	.070	3	31	.96	75	.01	9	1.75	.01	.69	1	18
A 48338	1	23	10	58	.3	78	11	635	4.36	58	5	ND	2	24	1	2	2	28	.85	.049	5	27	.76	125	.02	8	1.59	.02	.87	1	12
A 48339	2	55	77	736	.5	88	21	914	4.94	58	5	ND	3	24	5	2	2	35	.71	.040	4	40	.77	95	.01	5	1.44	.01	.64	1	18
A 48340	6	346	423	10588	5.2	83	19	725	6.24	190	5	ND	4	21	60	5	4	25	.81	.041	3	26	.55	71	.01	6	1.12	.01	.72	1	934
A 48341	2	220	1521	4878	4.9	78	18	908	4.22	103	5	ND	2	22	33	5	2	26	.80	.055	3	31	.68	94	.01	6	1.31	.01	.75	1	72
A 48342	5	130	212	609	.9	65	16	995	3.98	41	5	ND	5	28	4	4	2	24	1.05	.058	5	27	.82	112	.01	6	1.34	.02	.83	2	20
A 48343	21	234	24	2201	1.0	52	11	780	3.34	23	5	ND	3	21	8	2	2	18	1.03	.053	4	20	.70	97	.01	6	1.23	.01	.77	1	46
A 48344	6	130	4	52	.2	59	10	576	3.05	32	5	ND	4	21	1	2	2	19	1.09	.062	4	19	.80	116	.01	5	1.33	.02	.74	1	19
STD C/AU-R	18	61	42	133	6.6	67	30	960	3.86	36	19	6	36	48	18	14	22	59	.44	.100	38	56	.88	174	.07	40	1.87	.06	.13	13	510

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
A 48345	4	87	4	49	.3	51	11	385	3.50	33	5	ND	5	21	1	2	2	19	.91	.048	4	24	.73	102	.01	2	1.43	.01	.59	1	12
A 48346	3	52	3	36	.1	51	14	384	4.03	28	5	ND	5	19	1	2	2	25	.90	.055	4	29	.84	118	.01	2	1.66	.02	.63	1	9
A 48347	2	91	8	73	.2	51	11	496	3.94	47	5	ND	4	16	1	2	2	22	.43	.053	5	25	.75	131	.01	2	1.41	.01	.58	1	16
A 48348	1	109	7	112	.3	58	17	532	5.67	68	5	ND	3	18	1	2	2	31	.46	.058	4	28	.98	83	.01	2	1.14	.01	.48	1	22
A 48349	4	86	34	204	.6	60	13	529	3.43	73	5	ND	2	26	1	2	7	20	.60	.034	4	17	.63	109	.01	2	1.26	.01	.49	1	5
A 48350	33	177	344	4167	2.9	61	28	431	4.63	144	5	ND	1	24	23	6	11	8	1.09	.034	2	8	.56	55	.01	2	.89	.01	.38	1	127
A 48351	2	192	112	972	1.4	86	23	584	3.72	98	5	ND	2	23	6	2	4	13	.95	.035	3	14	.79	100	.01	3	1.46	.01	.56	1	18
A 48352	7	141	5	79	.4	86	15	511	3.47	78	5	ND	2	23	2	2	2	17	.60	.054	5	14	.72	122	.01	2	1.55	.02	.58	1	7
A 48353	4	824	19	39	.7	178	67	478	11.11	72	5	ND	1	22	1	2	4	21	.85	.170	3	21	.69	34	.01	7	1.40	.02	.47	1	42
A 48354	3	275	10	39	.1	94	34	413	7.58	69	5	ND	1	28	1	2	2	17	.63	.041	3	15	.69	26	.01	3	1.06	.01	.34	1	33
A 48355	4	232	271	479	.9	128	25	401	6.32	122	5	ND	1	23	4	2	5	10	.85	.155	3	12	.62	40	.01	2	1.17	.01	.48	1	51
A 48356	3	105	9	27	.3	72	16	317	3.91	66	5	ND	1	26	1	2	2	10	.57	.036	3	12	.67	68	.01	2	1.20	.01	.37	2	4
A 48357	1	59	2	44	.2	69	14	573	3.61	61	5	ND	1	31	1	2	2	17	.47	.037	4	14	.69	96	.01	2	1.11	.01	.38	2	18
A 48358	3	50	2	41	.1	56	15	689	4.09	42	5	ND	2	31	1	2	2	27	.68	.043	4	22	.81	106	.01	2	1.25	.01	.43	3	9
A 48359	1	71	5	25	.1	74	13	409	3.18	47	5	ND	2	22	1	2	2	11	.40	.035	4	12	.52	90	.01	2	.99	.01	.42	1	8
A 48360	3	57	6	15	.2	64	17	403	4.50	44	5	ND	1	31	1	2	2	11	1.03	.054	3	12	.53	56	.01	4	.95	.01	.44	1	9
A 48361	9	405	191	1459	2.8	82	19	522	4.57	144	5	ND	1	17	7	2	2	13	.36	.034	3	15	.54	71	.01	2	1.38	.01	.58	1	123
A 48362	1	61	3	25	.2	62	12	500	3.50	55	5	ND	2	25	1	2	2	16	.34	.039	4	15	.59	65	.01	2	.95	.01	.31	1	13
A 48363	6	216	16	36	.7	57	18	755	4.31	52	5	ND	2	53	1	2	3	27	1.77	.048	3	25	.92	76	.01	2	1.59	.01	.52	1	18
A 48364	1	133	11	38	.3	69	15	446	3.33	60	5	ND	2	32	1	2	2	21	.99	.037	4	18	.71	82	.01	2	1.29	.01	.46	1	10
A 48365	5	136	2	24	.3	63	15	346	2.62	40	5	ND	2	22	1	2	2	18	.80	.040	4	17	.58	103	.01	2	1.39	.02	.66	2	5
A 48366	8	169	42	88	.7	80	21	568	4.29	88	5	ND	1	33	1	2	2	28	1.06	.062	4	21	.77	97	.01	2	1.76	.02	.64	1	19
A 48367	4	389	9	41	1.0	100	31	533	4.99	106	5	ND	2	44	1	2	2	31	1.64	.132	5	25	.93	89	.01	2	2.01	.02	.71	1	23
A 48368	6	262	13	55	.3	87	22	519	4.20	78	5	ND	1	49	1	2	2	24	1.88	.043	3	21	1.00	95	.01	2	1.63	.02	.71	1	18
A 48369	3	61	24	100	.4	68	51	754	13.14	60	5	ND	1	31	1	2	2	32	1.19	.078	2	34	1.05	44	.01	4	1.43	.02	.55	1	19
A 48370	7	259	36	82	1.0	81	20	545	4.54	50	5	ND	2	37	1	2	2	23	.92	.044	3	23	.68	98	.01	2	1.52	.02	.73	1	3
A 48371	3	398	225	1097	1.7	124	27	889	5.71	134	5	ND	2	61	6	3	2	30	2.03	.064	3	26	.96	52	.01	2	1.25	.02	.45	3	19
A 48372	3	157	40	240	.7	56	16	551	3.16	56	5	ND	2	33	2	2	2	20	1.18	.044	3	21	.68	95	.01	2	1.27	.02	.52	1	7
A 48373	19	672	12	39	1.6	43	21	931	4.13	50	5	ND	2	46	1	2	2	15	1.94	.084	3	14	.68	64	.01	2	.96	.01	.41	1	19
A 48374	9	333	257	584	1.4	5	7	1221	2.46	9	5	ND	2	51	4	2	2	8	1.92	.054	4	7	.42	69	.01	2	.65	.01	.33	1	7
A 48375	12	228	363	566	1.6	5	6	1618	2.37	30	5	ND	2	58	3	3	2	5	2.47	.059	5	5	.32	58	.01	2	.49	.01	.28	1	19
A 48376	9	195	357	560	1.5	5	8	1944	3.02	50	5	ND	1	42	3	2	2	8	1.95	.057	4	9	.43	51	.01	2	.83	.01	.47	1	22
A 48377	5	121	28	61	.5	6	9	1236	2.92	7	5	ND	2	47	1	2	2	9	2.26	.062	4	8	.33	100	.01	4	1.00	.01	.55	1	10
A 48378	4	123	9	20	.6	6	9	1458	2.40	8	5	ND	2	63	1	2	2	10	2.82	.065	4	9	.33	101	.01	4	.90	.01	.50	2	1
A 48379	3	279	24	102	.5	10	13	963	2.08	8	5	ND	1	94	1	2	2	7	2.81	.059	5	7	.38	85	.01	3	.85	.01	.40	1	33
A 48380	2	335	14	27	.6	4	6	797	2.49	9	5	ND	1	113	1	2	2	8	3.47	.060	3	5	.32	81	.01	4	.85	.01	.39	1	53
STD C/AU-R	18	58	45	128	6.8	67	31	955	3.97	38	18	8	36	47	20	15	21	58	.45	.093	36	53	.79	173	.07	37	1.93	.06	.14	13	470

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
A 48381	2	376	21	112	1.2	5	6	954	2.25	8	5	ND	2	90	1	2	4	10	2.83	.061	4	6	.38	82	.01	4	.62	.01	.36	1	35
A 48382	3	412	11	47	.8	6	7	461	2.66	10	5	ND	2	83	1	3	3	11	2.33	.063	5	7	.45	85	.01	2	.69	.01	.33	1	28
A 48383	2	117	5	18	.2	66	16	226	4.14	43	5	ND	4	43	1	2	2	29	.79	.055	10	34	.93	87	.03	2	1.92	.02	.41	1	5
A 48384	2	216	12	31	.6	152	37	344	8.32	85	5	ND	3	51	1	3	5	45	.91	.161	22	49	1.29	35	.04	3	2.86	.03	.47	1	1
A 48385	2	63	6	19	.2	53	9	237	3.56	51	5	ND	2	57	1	2	2	38	.68	.050	5	35	1.04	111	.07	2	2.52	.04	.73	1	12
A 48386	2	64	9	19	.2	50	8	673	3.04	53	5	ND	3	149	1	2	3	25	3.24	.044	8	26	.86	84	.04	2	1.76	.01	.47	1	1
A 48387	1	22	7	22	.2	49	14	181	3.75	8	5	ND	4	69	1	2	2	29	.68	.062	9	36	1.10	64	.01	2	1.97	.02	.35	1	3
A 48388	1	106	2	21	.2	50	10	162	3.28	25	5	ND	5	45	1	2	2	27	.60	.057	13	32	.93	83	.01	2	1.73	.01	.32	2	2
A 48389	1	107	8	20	.5	53	12	829	4.49	30	5	ND	3	109	1	2	2	26	3.06	.062	12	35	.98	43	.01	2	1.92	.02	.33	1	12
A 48390	1	102	10	25	.2	60	11	248	3.97	34	5	ND	4	41	1	2	2	26	.91	.080	17	32	.94	78	.01	2	1.87	.03	.32	2	3
A 48391	1	66	2	26	.2	59	16	183	3.29	38	5	ND	3	37	1	2	2	20	.96	.051	9	26	.80	58	.01	2	1.34	.02	.26	1	18
A 48392	2	24	31	64	.4	11	7	619	3.02	9	5	ND	2	83	1	2	3	7	2.41	.074	4	9	.35	54	.01	4	.50	.01	.27	1	6
A 48393	3	13	402	1600	1.1	9	11	833	3.81	10	5	ND	2	41	7	2	2	5	1.56	.067	4	6	.25	49	.01	5	.53	.01	.32	1	14
A 48394	2	6	41	81	.5	6	7	802	2.51	6	5	ND	1	72	1	2	2	4	2.24	.062	3	5	.24	37	.01	4	.35	.01	.20	1	11
A 48395	2	5	39	105	.4	6	6	1240	1.95	22	5	ND	2	77	1	2	2	4	2.71	.062	4	6	.31	69	.01	4	.34	.01	.19	1	22
A 48396	2	10	66	402	.4	6	5	1651	2.23	34	5	ND	2	73	2	2	2	4	2.60	.068	5	6	.41	62	.01	2	.33	.01	.17	1	33
A 48397	2	9	53	165	.5	7	6	1441	2.10	66	5	ND	2	77	1	2	2	6	2.87	.065	5	7	.44	60	.01	3	.35	.01	.18	1	23
A 48398	3	6	42	70	.7	6	6	1278	2.31	30	5	ND	2	75	1	2	2	5	2.75	.066	4	7	.33	58	.01	7	.37	.01	.20	1	22
A 48399	3	7	43	95	1.3	7	6	1040	2.55	15	5	ND	1	67	1	2	3	6	2.47	.067	4	8	.45	57	.01	4	.33	.01	.17	1	31

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: FEB 9 1990

DATE REPORT MAILED: Feb. 14/90

ASSAY CERTIFICATE

- SAMPLE TYPE: CORE PULP AG** BY FIRE ASSAY FROM 1/2 A.T.

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

Noramco Exploration PROJECT 2002 BOB CK. FILE # 90-0253R

SAMPLE#	ZN %	AG** oz/t
A 48232	1.81	.87

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE RECEIVED: FEB 7 1990
DATE REPORT MAILED: Feb. 14/90

ASSAY CERTIFICATE

- SAMPLE TYPE: CORE PULP

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

Noramco Exploration PROJECT 2002 BOB CK. FILE # 90-0285R

SAMPLE#	Zn %
A 48340	1.15

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: FEB 12 1990

DATE REPORT MAILED: Feb. 23/90

ASSAY CERTIFICATE

Noramco Exploration Inc PROJECT 2002 BOB CK. FILE # 90-0253R2

900 - 999 W. Hasting St., Vancouver BC

SAMPLE#	SAMPLE wt. gm	AU-100 oz/t	NATIVE Au mg	AVG. oz/t
A 48232	870	.005	ND	.005

-100 MESH AU BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: CORE REJECT

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

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: FEB 12 1990

DATE REPORT MAILED: Feb. 23/90

ASSAY CERTIFICATE

Noramco Exploration Inc PROJECT 2002 BOB CK. FILE # 90-0285R2

900 - 999 W. Hasting St., Vancouver BC

SAMPLE#	SAMPLE wt. gm	AU-100 oz/t	NATIVE Au mg	AVG. oz/t
A 48324	760	.007	ND	.007
A 48340	750	.009	ND	.009

-100 MESH AU BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: CORE REJECT

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

BUCK CREEK

BUCK FLATS ROAD

Placer Workings

CREEK

BETH 3

BUCK

LORNE

HC

NANCY H.

CLOUD

BETH 1

BETH 4

TD FR.

Carter

Ellard - Goldecker

Leo West

John Grant

LCP LORNE

LCP HC

LCP CLOUD

LCP NANCY H.

LCP T.D. Property

LCP BETH 4

MAGNETIC DECLINATION 25°E / AUGUST, 1989

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,879

LEGEND

- Topographic contour, metres
- Creek
- All weather road
- 4-wheel drive road
- Picket line, metric grid
- UTM grid coordinates
- Orthophoto control point, elevation in metres
- Diamond drill hole
- Legal corner post, mineral claim
- Private land/Owner
- Swamp
- Claim boundary

0 50 100 150 200
metres

ROYALSTAR RESOURCES LTD.

BOB CREEK PROJECT

GROUP No. 3

LOCATION of DRILL HOLES

BC-90-17

Scale: 1 : 5,000	To Accompany 1990 ASSESSMENT REPORT	
Date: MARCH, 1990	Drawn By: T.E.L./W.J.L.	Drafted By: LGC
NTS 93L/7E	Project No.: 2002	FIGURE 3