

LOG NO: 11-27

RD.

ACTION:

FILE NO:

SHAFT PROPERTY

1990 DIAMOND DRILLING REPORT FOR
ASSESSMENT CREDITS ON THE
COT, ROADSIDE FR., COT FR., MAS FR., TEE FR.,
FLAT FR., AU 2, AU 4, STAR OF THE WEST
AND PRINCESS MINERAL CLAIMS

NELSON MINING DIVISION
NTS 82F/6W
LAT. $49^{\circ}26'10''$; LONG. $117^{\circ}16'40''$

G E O L O G I C A L B R A N C H
A S S E S S M E N T R E P O R T

20,481

OWNER OF CLAIMS: OTTO JANOUT, OTAKAR JANOUT, CHARLES PITTMAN, ROBERT BOURDON
& TOM CHERRY

OPERATOR: NORAMCO MINING CORPORATION

AUTHOR: W.J. LEWIS & T.E. LISLE

DATE: NOVEMBER 20, 1990

TABLE OF CONTENTS

	<u>Page</u>
Introduction	1
Location & Access	1
Property Claims	2
History	3
Regional Geology	3
Property Geology	4
Summary of Drill Hole SH 90-1	8
Summary of Costs Applied to Assessment Credits	9
References	11

FIGURES

	<u>After Page</u>
Figure 1 - Property Location Map	1
Figure 2 - Claim Map	2
Figure 3 - Regional Geology	3
Figure 4 - Summary Map - Geology	7
Figure 5 - Summary Map - Gold	7
Figure 6 - Summary Map - Copper	7
Figure 7 - Summary Map - Arsenic	7
Figure 8 - Location of Drill Hole SH 90-1 (located in back pocket)	

APPENDICES

Statement of Qualifications	Appendix I
Statement of Work and Grouping Notice	Appendix II
Drill Logs, Summary Drill Logs & Analysis Certificates Drill Hole SH 90-1	Appendix III
Acme Analytical Lab Results Sheets	Appendix IV
Invoices for Drill Hole SH 90-1	Appendix V

Introduction

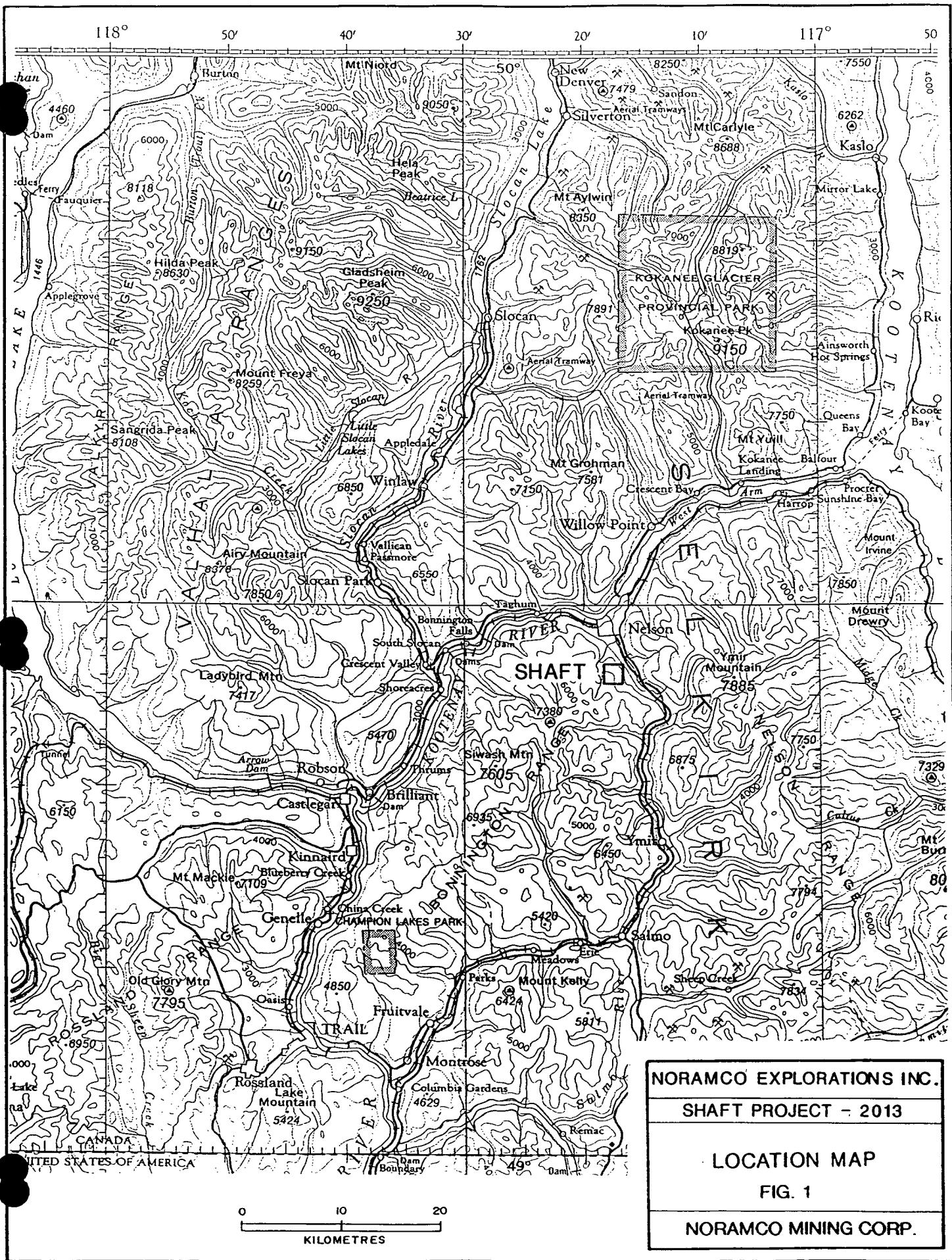
This report was prepared in order to satisfy assessment credits applied on the Cot, Roadside Fr., Cost Fr., Mas Fr., Tee Fr., Flat Fr., Au 2, Au 4, Star of the West and Princess mineral claims and fractions. Direct drilling and analytical costs for Hole SH 90-1, drilled during the period June 21 to July 1, 1990, totalled \$18,662.00. Costs associated with site preparation and road building was \$2,627.00. A total of \$17,400 is allocated to the cover 5 -10 year's work credits on the two post and fractional claims comprising the above claim group.

Location and Access - See Fig. 1

The Shaft Property is located approximately seven kilometres south of the West Kootenay city of Nelson in south-eastern British Columbia, Lat. $49^{\circ}26'10''$; Long. $117^{\circ}16'40''$; NTS 82F/6W.

Highway #6A connecting Nelson to Salmo, B.C. runs southeast through the Cottonwood Creek Valley and the eastern portion of the property. Access from highway 6A is by the Giveout Creek and Gold Creek forestry roads, and by a number of four-wheel drive roads which run throughout the claims.

The claims are located on the northeast flanks of Toad Mountain, and much of the property covers the steeply forested slopes draining northeast into Cottonwood Creek. Elevations on the property range from about 800 metres in Cottonwood Creek, to 1,514 metres in the western section of the claims.



NORAMCO EXPLORATIONS INC.

SHAFT PROJECT - 2013

LOCATION MAP

FIG. 1

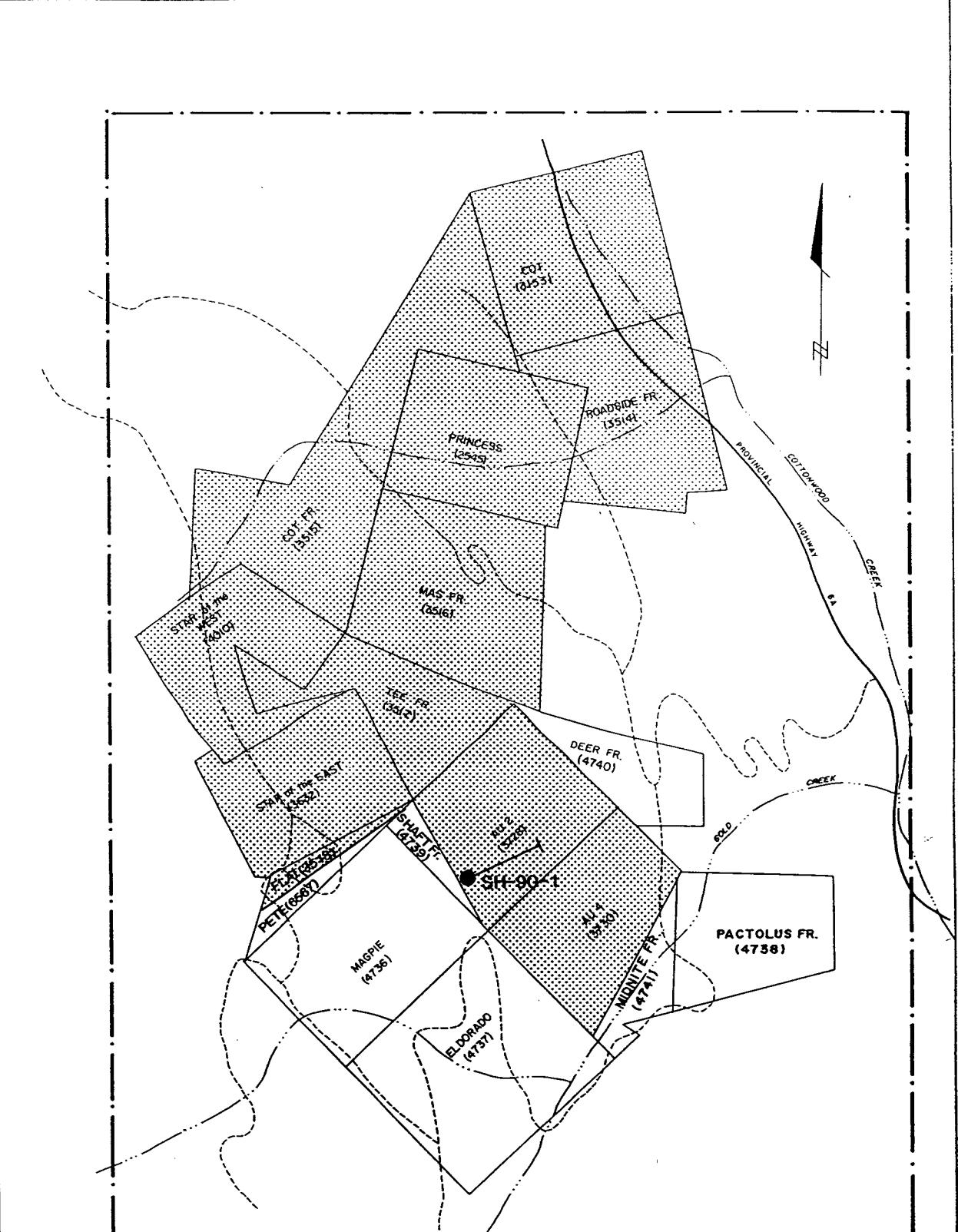
NORAMCO MINING CORP.

Property - See Fig. 2

The Shaft property comprises 18 two-post claims and fractional mineral claims located and recorded in the Nelson Mining Division. Claim particulars are as follows:

<u>Claims</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Units</u>
<u>Cot</u>	3513	Sept. 13, 2000*	1
<u>Roadside Fr.</u>	3514	Sept. 13, 2000*	1
<u>Cot Fr.</u>	3515	Sept. 13, 2000*	1
<u>Mas Fr.</u>	3516	Sept. 13, 2000*	1
<u>Tee Fr.</u>	3517	Sept. 13, 2000*	1
<u>Flat Fr.</u>	3518	Sept. 13, 2000*	1
<u>Au 2</u>	3728	June 5, 2000*	1
<u>Au 4</u>	3730	June 5, 2000*	1
<u>Star of the West</u>	4010	Jan. 4, 2000*	1
Star of the East	3632	Jan. 3, 2000	1
Magpie	4736	July 20, 1994	1
Eldorado	4737	July 20, 1994	1
Pactolus Fr.	4738	July 20, 1993	1
Shaft Fr.	4739	July 20, 1994	1
Deer Fr.	4740	July 20, 1993	1
Midnite Fr.	4741	July 20, 1993	1
<u>Princess</u>	2545	Nov. 1, 2000*	1
Pete	6567	Aug. 14, 1991	<u>1</u>
		Total	<u>18</u>

* Anniversary dates as per assessment credits filed on September 11, 1990 in Nelson Recording Office - see Appendix II.



0 250 500
metres

----- 4-WHEEL DRIVE ACCESS



GROUP 1 AREA FILED FOR ASSESSMENT CREDITS



DIAMOND DRILL HOLE LOCATION



LOCATION OF FIGURE 8

NORAMCO EXPLORATIONS INC.

SHAFT PROJECT - 2013

CLAIMS LOCATION

FIG. 2

NORAMCO MINING CORP.

History

The early history of the property is unknown but several old workings and crown-granted claims point to exploratory work in the early part of the century, possibly around 1900 - 1904.

The Shaft Property was partly investigated by Lacana Mining Corporation in 1984. Lacana completed geochemical surveys, some trenching and sampling and conducted airborne magnetic - electromagnetic surveys.

In 1987, South Pacific Gold carried out a program of line cutting, geological mapping, geochemical soil sampling, magnetic and induced polarization / resistivity surveys, and six NQ diamond drill holes aggregating 762 metres. Drilling was confined to a copper-gold occurrence referred to as the Shaft showing.

Golden News Resources Inc. optioned the property in 1989. Noramco Explorations, on behalf of Golden News Resources, completed a program including linecutting (14.7 kilometres), magnetic-VLF/EM surveying (14.2 and 21.05 line kilometres respectively), IP-Resistivity surveying (3.3 line kilometres), geochemical sampling (589 soil and 173 rock samples analyzed for 30 element ICP and Au FA/AA) and detailed geological mapping during the period September - October, 1989.

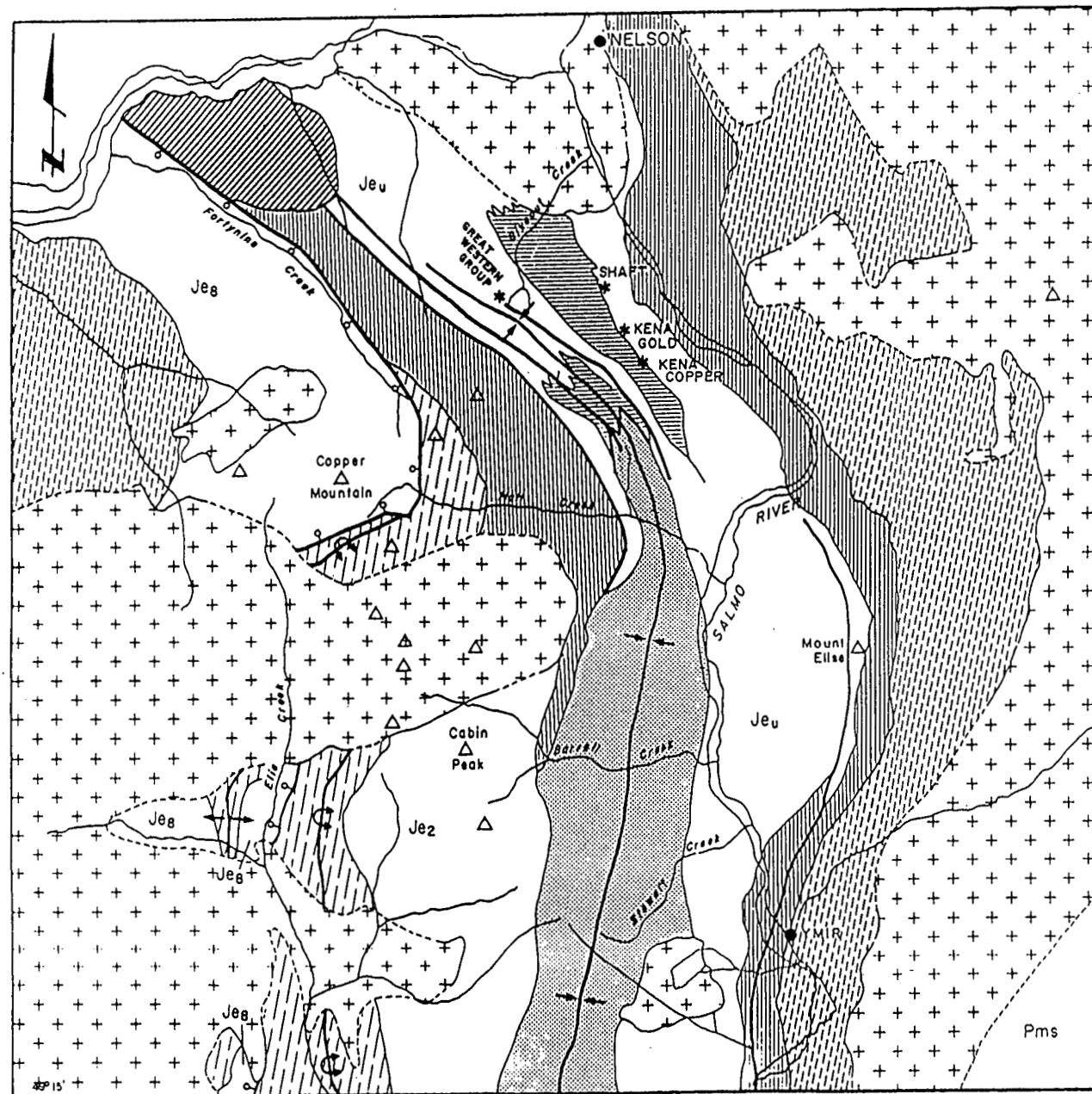
Results of this work, combined with those of previous exploration companies indicate three drill targets were present; the Dighem, Princess and Silver King Porphyry Contact Zones - see Figure 3 for locations.

Noramco Mining Corporation optioned the property from Golden News in June, 1990 and assumed the option agreement obligations to the prospector vendors.

Regional Geology - See Fig. 3

The property is on the eastern limb of the Hall Creek syncline, a south-plunging fold associated with intense shearing that dominates the structure of the Nelson Map Area. The syncline incorporates mainly volcanic and sedimentary rocks of the lower Jurassic Rossland Group intruded by stocks of granodiorite related to the middle Jurassic Nelson Batholith.

The Rossland Group comprises a basal assemblage of fine-grained clastic rocks of the Archibald Formation, volcanic rocks of the Elise Formation, and clastic rocks of the overlying Hall Formation.



After Hoy and Andrew, 1989

LEGEND

MIDDLE JURASSIC

++ NELSON intrusions
LOWER OR MIDDLE JURASSIC (?)

diorite (?)

LOWER JURASSIC
ROSSLAND GROUP

■ SILVER KING intrusions
■ HALL FORMATION

■ ELISE FORMATION
upper Elise

Je_u intermediate to mafic
crystal and fine tuff

Je_g intermediate lapilli and
crystal tuff
lower Elise

Je₂ mafic pyroclastic breccia

■ mafic flow breccia, flows

■■■■■ ARCHIBALD FORMATION /
YMR GROUP
PALEOZOIC

Pms metasedimentary rocks

△ MOUNTAIN TOP

↔ ANTICLINE

↓ SYNCLINE

— FAULT

♀ FAULT (circle indicates downthrown block)

— HIGHWAY

0 5 KM

NORAMCO EXPLORATIONS INC.

SHAFT PROJECT - 2013

REGIONAL GEOLOGY

FIG. 3

NORMACO MINING CORP.

Property Geology - See Figs. 4, 5, 6, and 7

The Shaft Property is underlain by members of the upper Elise Formation, an intermediate to basic assemblage including augite porphyry basaltic flows, and part of a cyclical sequence of pyroclastic rocks that grade upward from coarse lapilli tuff through crystal and fine-grained bedded tuff.

The upper Elise Formation is intruded by a number of synvolcanic plagioclase porphyries including the Silver King Porphyry. It is also intruded by fine to medium-grained 'dioritic' sill-like complexes. At the Shaft Property, one of these units is described as being up to 50 metres in width, and 5.0 km in length. This unit is significant in that it hosts the Shaft and Cat prospects.

The Hall Creek syncline near the Shaft Property trends northwest. A regional foliation related to this trend dip southwest.

Mineralization is widespread within the claims and comprises the following types:

- (i) chalcopyrite, pyrite and magnetite as disseminations and fracture fillings in brecciated and altered diorite sills in a northwest trending zone of shearing near the contact of the Silver King Porphyry. Two showings are exposed in trenches, the Shaft and the Cat, and if mineralization is continuous between these two, the implied strike length of the zone is in excess of 800 meters.

Significant gold and copper values have been obtained from surface sampling and diamond drilling by previous exploration companies. Surface grades have ranged up to 0.18% opt Au and to 1.86% Cu over 4 to 5 meter widths of shearing. Diamond drilling, confined to a 100 meter strike length of the Shaft showing area and comprising 5 short holes, returned values of up to 0.265 opt Au and 1.13% copper over 4.1 meters of apparent thickness.

- (ii) pyrite, pyrrhotite, minor chalcopyrite and arsenopyrite occur as disseminations in a northwest-trending 200 meter wide band of mafic, felsic and crystal tuffs in the central part of the property. The area is marked by zones up to several metres wide of intense alteration consisting of limonite and manganese oxide, sericite, carbonate and quartz veinlets. Grab samples taken from old dumps from caved adits during Noramco's initial examination returned values as high as 4.28 grams/tonne gold, .25% copper, and 1% arsenic. This area is referred to as the Dighem Zone, named after a coincident moderate strength EM conductor defined by previous airborne magnetic-electromagnetic surveys.

Property Geology (cont'd...)

- (iii) disseminated to crudely banded massive pyrite, chalcopyrite and magnetite occur in dump material from old (early 1900's) caved adits referred to as the Princess showing situated in the northeast part of the property. Mineralized rock includes highly chloritized tuff and limestone. Grab samples of dump material have returned assays as high as 4.78 grams/tonne gold and 1.6% copper.
- (iv) galena, sphalerite, pyrite and minor chalcopyrite occurs in three areas situated between the Cat-Shaft and Dighem zones, as bands in siliceous foliated tuff; however, gold values of only up to .434 grams/tonne have been obtained.

Results of the Fall 1989 work carried out by Golden News, combined with those of previous exploration companies indicate the following exploration targets:

1. Dighem Zone

Alteration/mineralization of the Dighem Zone is characterized by a strong coincident soil geochemical-geophysical anomaly suggesting the Zone is 200 metres wide and 1,200 metres long.

The geochemical soil anomaly consists of highly anomalous and relatively persistent copper and arsenic values ranging from 165 to 1,064 ppm and 20 to 468 ppm respectively, and sporadic gold values of up to 35 ppb.

The geophysical anomaly consists of:

- (i) A very strong IP/resistivity anomaly 200 metres wide by 1,200 metres long (high chargeability readings of 40 to 60 milliseconds, background of 6 milliseconds and low resistivity values of 100 to 1,000 ohm meters, background of 2,000 to 5,000 ohm meters).
- (ii) A band of high magnetic relief (2,000 gammas) within the area of high chargeability-low resistivity. The cause of this magnetic feature is at present unknown but is suspected being due to bands of magnetite. Quantities of pyrrhotite observed in outcrops are believed to be insufficient to cause the high magnetic relief.
- (iii) Three northwest-trending VLF-EM conductors within the zone. The conductors have been traced out for 450 metres (limit of the survey coverage) and are open for extension to the northwest and southeast.

The Dighem Zone was rated the top priority drill target in view of its strong geochemical-geophysical response. No previous drilling has been conducted and the occurrence of significant gold values and very anomalous copper-arsenic values obtained in very limited outcrop samples lended strong support to its potential.

Property Geology (cont'd...)

The zone is presumed to dip steeply westward, parallel to the regional schistosity. An abrupt cutoff in the magnetic pattern on its eastern margin suggests it is fault-bounded to the east. This postulated fault boundary is referred to as the "Dighem Break".

2. Princess Zone

This area contains "replacement type" mineralization in the form of disseminated to massive chalcopyrite, pyrite and magnetite in tuff and limestone material from old dumps. The area has scant outcrop.

Sporadic anomalous copper and gold values are present in soils in the vicinity. A weak chargeability anomaly of 20 to 46 milliseconds occurs immediately upslope and to the southwest of the showings and is open to further extension to the southeast.

3. Silver King Porphyry Contact Zone

This area situated along the contact of the Silver King porphyry stock is characterized by a large strong soil geochemical anomaly with gold values ranging from 30 to 1,010 ppb. The anomaly area is at least 300 metres wide and 1,100 metres in length, extending southward on to the Kena property claims.

Rock chip sampling of pyritized and sheared diorite and Silver King plagioclase porphyry returned values as high as 2,490 ppb gold in the area of anomalous gold in soils. No drilling testing the Silver King porphyry contact zone was carried out by previous companies. The large soil anomaly suggested potential for large low-grade gold mineralization similar to area being tested by Pacific Sentinel on their Great Western Property immediately to the west.

4. Shaft - Cat Zone

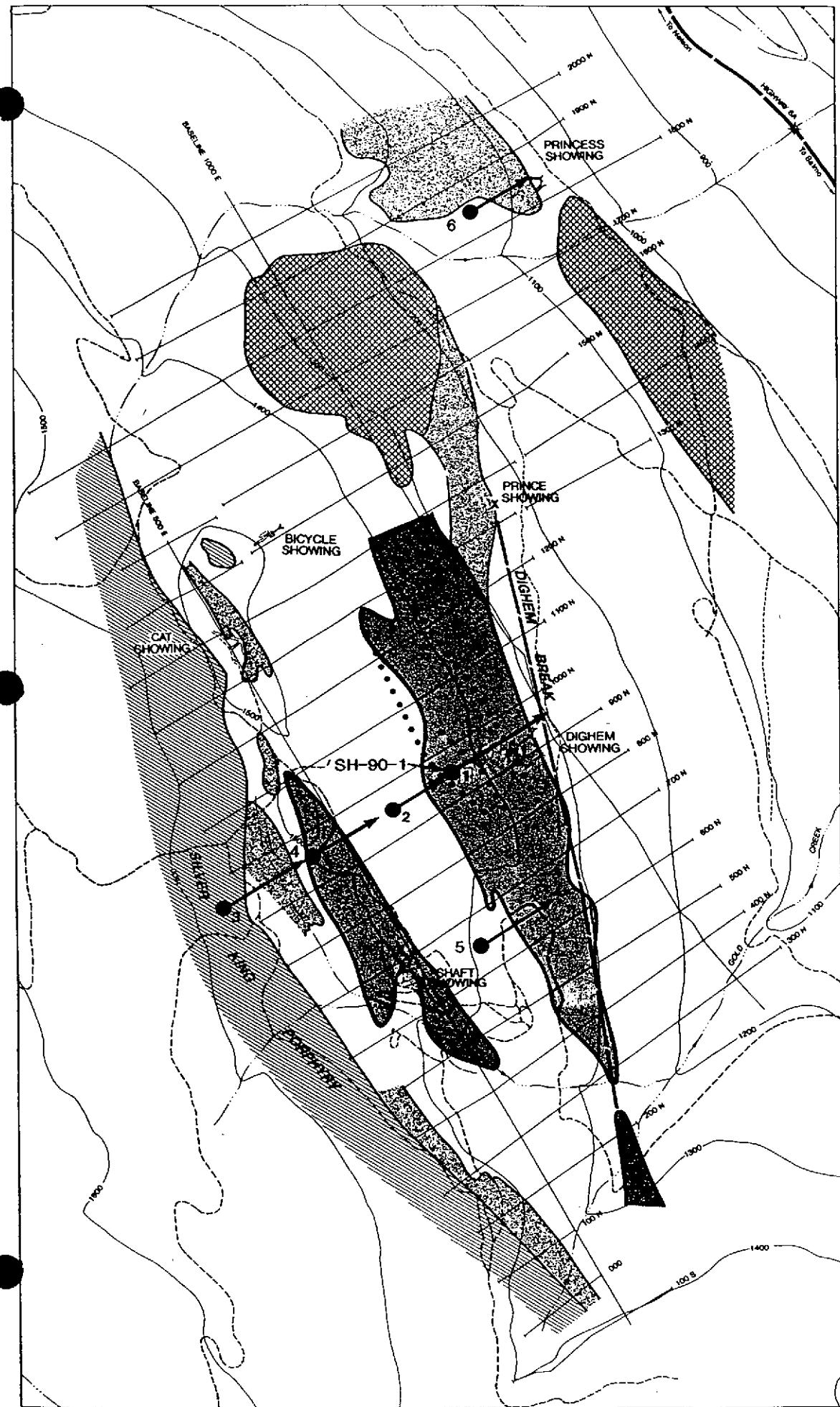
The Shaft - Cat Zone has been only drilled for 100 metres of its postulated 800 metre strike length. Drilling has to date been unable to establish continuity in gold and copper grades. It remains as a second priority target.

Property Geology (cont'd...)

5. Other Targets

The scattered sphalerite, galena and chalcopyrite mineralization west of the Dighem Zone has in places the appearance of disrupted stratiform mineralization (contorted banding of sulphides evident). More detailed prospecting and mapping is necessary to determine if this mineralization is a viable drill target.

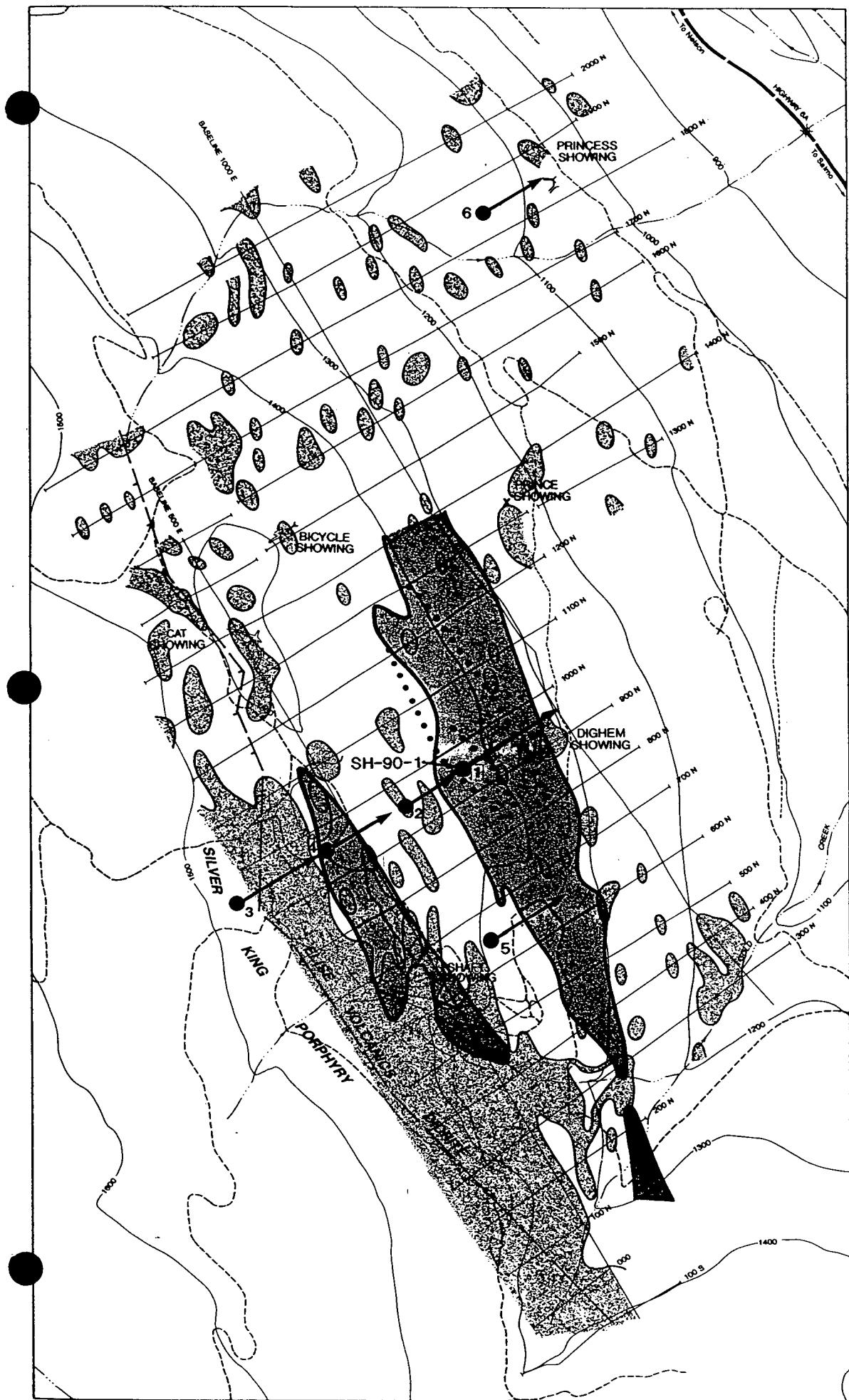
An area of anomalous gold in soils occurs on the north banks of Gold Creek between the elevations of 1,150 and 1,200 metres above sea level. Further detailed prospecting is warranted to determine if this area is a drill target.



SHAFT PROJECT - 2013

SUMMARY MAP:
GEOLOGY, IP CHARGEABILITY,
VLF-EM CONDUCTORS
& LOCATION of PROPOSED
DRILL HOLES

FIG. 4



LEGEND

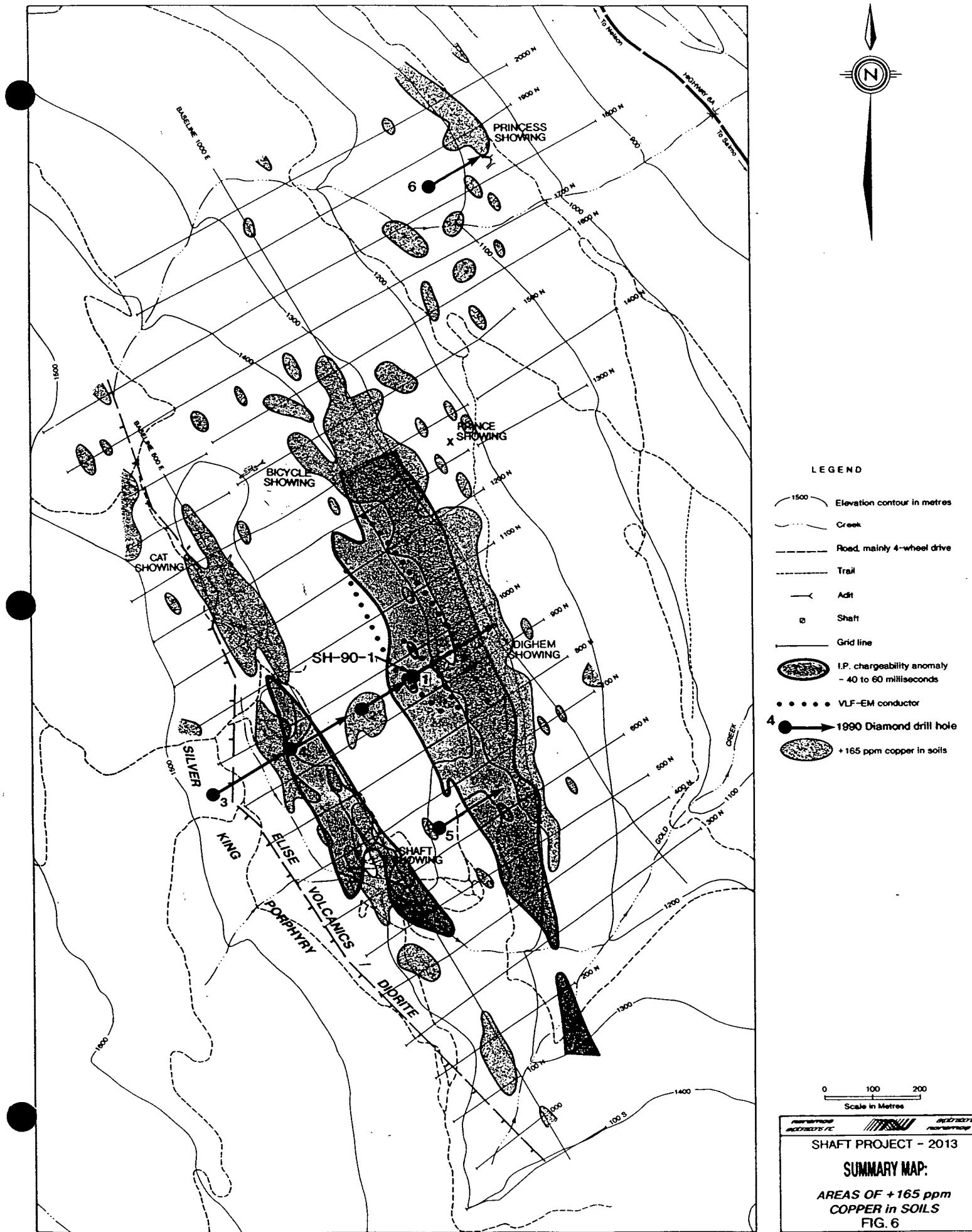
- The legend includes the following entries:

 - Elevation contour in metres
 - Creek
 - Road, mainly 4-wheel drive
 - Trail
 - Adit
 - Shaft
 - Grid line
 - I.P. chargeability anomaly
- 40 to 80 milliseconds
 - VLF-EM conductor
 - 1990 Diamond drill hole
+30 ppb gold in soils

Scale in Metres

SHAFT PROJECT - 2013

**SUMMARY MAP:
AREAS OF +30 ppb
GOLD in SOILS
FIG. 5**





LEGEND

- 1500 Elevation contour in metres
- Creek
- Road, mainly 4-wheel drive
- Trail
- Adit
- Shaft
- Grid line
- I.P. chargeability anomaly
~40 to 60 milliseconds
- VLF-EM conductor
- 1990 Diamond drill hole
- +20 ppm arsenic in soils

0 100 200
Scale in Metres

SHAFT PROJECT - 2013

SUMMARY MAP:

AREAS OF +20 ppm
ARSENIC in SOILS
FIG. 7

Summary of Drill Hole SH 90-1 (See Figures 2, 3 to 8 for Hole Location)

Diamond drill hole SH 90-1 was drilled during the period June 21 to July 1, 1990 as a test of the Dighem Zone. Hole parameters are as follows:

Drill Hole: SH 90-1

Core Size: NQ

Length: 345.77 metres

Collar Azimuth: ~060°

Inclination: Collar -65°
(Acid Tests) 81.68 M -64°
196.89 M -62°
288.33 M -61°
345.63 M -60°

Elevation: 1,431.0 Metres ASL (approx.)

Location: 9+50N
7+37E

(With respect to Shaft picket line grid.)

Drilling was conducted by Lone Ranger Diamond Drilling Company Ltd. using a Longyear '44' diamond drill mounted on a T.D. 15 bulldozer. Water was pumped from a creek located approximately 200 - 300 metres from the drill site.

Analytical work was carried out by Acme Analytical Laboratories, Vancouver. Drill core was generally sampled in 1.5 metre lengths with the entire hole to 269.0 metres analyzed after which only selected intervals were analyzed to the end of the hole at 345.77 metres. A 30 element I.C.P. analysis was conducted by Acme on all samples. Gold analysis from drill hole 90-1 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. The diamond drill core is currently stored on site along with all other previous drill core.

Diamond drill logs are included as Appendix III and Acme Analytical Lab Results as Appendix IV. The hole collared in and remained in siliceous tuff to 198.40 metres. This unit is mineralized with up to 3% pyrite, 2% to 5% finely disseminated pyrrhotite, traces of chalcopyrite, sphalerite and rare traces of arsenopyrite and galena. From 198.40 metres to 239.56 metres, the hole cut an assemblage of fine-grained tuff and augite-crystal tuff that in places is highly altered. From 239.56 metres to 345.77 metres, the hole encountered weakly altered coarse lapilli tuff.

Summary of Drill Hole SH 90-1 (cont'd...)

With few exceptions, the analysis revealed generally low background concentrations for copper, lead, zinc, arsenic and gold.

Persistent traces of chalcopyrite in the siliceous tuff yielded anomalous values in the 100 - 400 ppm range with two widely separated samples grading +1,400 ppm Cu. Below the siliceous tuff, copper content is commonly 100 ppm.

Lead assays range to 207 ppm; zinc assays range to 775 ppm; and arsenic assays range to 2,162 ppm. The high arsenic assay is coincident with a high lead (207 ppm) and two consecutive samples that yielded 477 and 849 ppb gold in the intercept from 201.50 to 204.50m. Arsenopyrite and galena were noted in the highly altered rocks of this section.

Summary of Costs Applied to Assessment Credits

A total of \$17,400.00 derived from \$21,289.00 drilling, road building and analytical costs has been applied to assessment credits. This total was determined as follows:

Drill Hole SH 90-1 (June 21 - July 1, 1990)

I) Lone Ranger Invoice

Mobilization	\$ 1,000.00
Casing to 40'	570.00
Footage Charges 40' - 500' @ 13.00/foot	7,280.00
500' - 1,000' @ 14.00/foot	5,600.00
1,000' - 1,116' @ 15.00/foot	1,740.00
Acid Tests 2	120.00

II) Leber Mines Ltd.

Mob. & Demob.	\$ 152.00
D7 Dozer 30 hours @ 82.50/hour	2,475.00

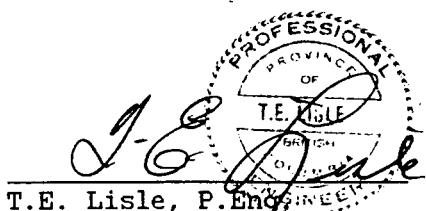
III) Acme Analytical Costs

192 Samples Drill Core @ 12.25/sample	\$ 2,352.00
SH 90-1 Total Cost	\$ 21,289.00

Supporting invoices are included as Appendix V.



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



References

- Andrew, K. and Höy, T. (1988): Preliminary Geology and Mineral Occurrences in the Rossland Group between Nelson and Ymir, Southeastern British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1988-1.
- Andrew, K. and Höy, T. (1988): The Shaft Showing, Elise Formation, Rossland Group, B.C. Ministry of Energy, Mines and Petroleum Resources, Exploration in British Columbia 1988, pages B21-B28.
- Dvorak, Z. (1894): Dighem III Survey of the Nelson Area, British Columbia, Lacana Mining Corp., December 1989.
- Frebold, H. and Little, H.W. (1962): Paleontology, Stratigraphy, and Structure of the Jurassic Rocks in Salmo Map Area, British Columbia, Geological Survey of Canada, Bulletin 81.
- Frebold, H. and Tipper, H.W. (1970): Status of the Jurassic in the Canadian Cordillera of British Columbia, Alberta, and Southern Yukon, Canadian Journal Earth Sciences, Volume 7, Number 1, pages 1-20.
- Höy, T. and Andrew, K. (1988): Preliminary Geology and Geochemistry of the Elise Formation, Rossland Group, between Nelson and Ymir, Southeastern British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1987, Paper 1988-1, pages 19-30.
- Höy, T. and Andrew, K. (1989a): Geology of the Nelson Map Area, Southeastern British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-11.
- Höy, T. and Andrew, K. (1989b): The Rossland Group, Nelson Map Area, Southeastern British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1988, Paper 1989-1, pages 33-43.
- Jenks, J. (1988): The Shaft Mineral Claims, Nelson Mining Division, British Columbia, South Pacific Gold Corp. private report, January 1988.
- Lebel, J.L. (1990): Report on Magnetic and VLF-EM Geophysical Surveys, Noramco Explorations Inc., January 1990.
- Little, H.W. (1960): Nelson Map Area, West-half, British Columbia, Geological Survey of Canada, Memoir 308, 205 pages.
- _____(1982): Geology, Bonnington Map Area, British Columbia, Geological Survey of Canada, Map 1571A.

References (cont'd...)

Mulligan, R. (1952): Bonnington Map Area, British Columbia,
Geological Survey of Canada, Paper 52-13, 37 pages.

Seyward, M. (1988): Geophysical Report on a Magnetometer, VLF-EM, Pulse-EM IP
survey on the Shaft Project, Nelson Mining Division, B.C. Ministry of Energy,
Mines and Petroleum Resources, Assessment Report 17472.

Silversides, D.A. (1989): Shaft Property, Project Status Report, August 24,
1989.

Tipper, H.W. (1984): The Age of the Jurrassic Rossland Group of Southeastern
British Columbia, in Current Research Part A, Geological Survey of
Canada, Paper 84-1A, pages 631-632.

Lisle, T.E. and Lewis, W.J. (1990): Geological and Geochemical Report on the
Shaft Property, Nelson Mining Division for Noramco Explorations Inc. and
Golden News Resources Inc., March 1990

Lisle, T.E. and Silversides, D.A. (1990): Diamond Drilling Report on the
Shaft Property, Drill Holes SH 90-1 to SH 90-6, Nelson Mining Division
for Noramco Explorations Inc., September 10, 1990

APPENDIX I
STATEMENT OF QUALIFICATIONS

Statement of Qualifications

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

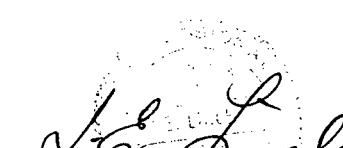
- I am a Geologist employed by Noramco Exploration Inc. with a business address of #900 - 999 West Hastings Street, Vancouver, B.C.
- I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology, 1985.
- That I am a member in good standing of:
 - Geological Association of Canada
- That I assisted in preparation of this report describing the drill program carried out at the Shaft Property by Noramco Explorations Inc. on behalf of Noramco Mining Corp.

William J. Lewis
William J. Lewis, B.Sc.
November 1990

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
 - Associate of Professional Engineers of B.C.
- That I carried out field work related to the Shaft Property from June 19, 1990 to July 31, 1990.
- That I assisted in preparation of this report describing the drilling program carried out at the Shaft Property by Noramco Explorations Inc. on behalf of Noramco Mining Corp.


T.E. Lisle, P. Eng.

November 1990

APPENDIX II

STATEMENT OF WORK & GROUPING NOTICE

}



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION — TITLES BRANCH

Mineral Tenure Act
Sections 25, 26 & 27

STATEMENT OF WORK — CASH PAYMENT

Indicate type of title MINERAL
(Mineral or Placer)

Mining Division: NELSON

1. WILLIAM LEWIS
(Name)
900 999 W. HASTINGS ST.
(Address)
VANCOUVER B.C.
(Telephone) (604) 689-1428 V6C 2W2 (Postal Code)

Valid subsisting FMC No. 290707

FMC Code L.E.W.I.W.

① ② OTTO UFAKAN JANOU ③ Robert Bourne
Agent for ④ CHARLES PITTMAN ⑤ Tom Cherrill
⑥ ⑦ 310 1509 MARTINAGA ⑧ WHITE ROCK B.C.
⑨ 1424 CEDAR ST. NELSON B.C.
⑩ 907 W. RICHARD ST (Address) NELSON B.C.
⑪ 2830 SILVER KING RD. NELSON B.C.
⑫ 536 1839 ⑬ 352-6815 ⑭ 86 V4V 3W8 ⑮ V1L 5
⑯ 352-7071 ⑰ 354-4202 ⑱ V1L 2E9 ⑲ V1L 1C
(Telephone) ⑳ (Postal Code) ⑳ 244762 ⑳ 29476
Valid subsisting FMC No. ⑳ 244762 ⑳ 29476
FMC Code ⑳ JANOU ⑳ BOURNE

STATE THAT: (NOTE: If only paying cash in lieu, turn to reverse and complete columns G to J and Q to T.)

1. I have done, or caused to be done, work on the An 2, S.1.A. of TYPE F.A.T., TEE FA
PRINCESS Claim(s)

Record No(s). 3728, 3632, 3517, 2545

Work was done from JUNE 21, 1990, to JULY 1, 1990;

and was done in compliance with Section 50 of the Mineral Tenure Act and

Section 19(3) of the Regulation YES NO

I hereby request that the claims listed in Column G on this Statement of Work be Grouped and I confirm that

all claims listed are contiguous YES NO

FEE — \$10.00

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

PROSPECTING: Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work can only be claimed once by the same owner of the ground, and only during the first three years of ownership.

GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING: Details must be submitted in a technical report conforming to sections 5 through 8 (as appropriate) of the Regulations.

PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL: A maximum of 30% of the approved value of geological, geophysical, geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account and added to the work value on this statement.

TYPE OF WORK (Specify Physical (Include details), Prospecting, Geological, etc.)	VALUE OF WORK		
	Physical	*Prospecting	*Geological etc.
ROAD WORK (USE OF CAT. TO ANGLE MOTOZ)	2,627		18,662
To Drill Sites			
Diamond Drilling (REPORT TO FOLLOW)			
TOTALS	A 2,627 + B	+ C 18,662 = D 21,289	

PAC WITHDRAWAL — Maximum 30% of Value in Box C Only

from account(s) of _____

TOTAL F 21,289

* Who was the Name Nelson Mining Co.
operator (provided Address 900 999 WEST HASTINGS ST.
the financing)? VANCOUVER B.C. Phone: (604) 689-1428
V6C 2W2

Transfer amount in Box F to reverse side of form
and complete as required.

F 21,289 I WISH TO APPLY \$ 17,400 OF THE
TOTAL VALUE FROM BOX F AS FOLLOWS:

Columns G through P inclusive MUST BE COMPLETED before work credits can be granted to claims. Columns G through J and Q through T inclusive MUST BE COMPLETED before a cash payment or rental payment can be credited. Columns not applicable need not be completed.

Cash Payment

CLAIM IDENTIFICATION

G	H	I	J	
1	CLAIM NAME (one claim/lease per line)	RECORD No.	NO. OF UNITS*	CURRENT EXPIRY DATE
2	COT	3513	1	09/13/90
3	RUSSIAN FR.	3514	1	09/13/90
4	COT FR.	3515	1	09/13/90
5	MAS. FR.	3516	1	09/13/90
6	TIE E. FR.	3517	1	09/13/90
7	FLAT FR.	3518	1	09/13/90
8	Au 2	3728	1	06/05/94
9	Au 4	3730	1	06/05/94
10	STAR OF TITE WEST	4010	1	01/04/95
11	STAR OF TITE EAST	3632	1	01/03/95
12	PRINCESS	2545	1	11/01/90
13				
14				
15				
16				
17				
18				

APPLICATION OF WORK CREDIT					
K	L	M	N	O	P
WORK TO BE APPLIED		Recording Fees	PRIOR EXCESS CREDIT BEING USED	NEW EXPIRY DATE	EXCESS CREDIT REMAINING
VALUE	YEARS				
2,000	10	100 ⁰⁰		09/13/2000	
2,000	10	100 ⁰⁰		09/13/2000	
2,000	10	100 ⁰⁰		09/13/2000	
2,000	10	100 ⁰⁰		09/13/2000	
2,000	10	100 ⁰⁰		09/13/2000	
2,000	10	100 ⁰⁰		09/13/2000	
1,200	6	60 ⁰⁰		06/05/2000	
1,200	6	60 ⁰⁰		06/05/2000	
1,000	5	50 ⁰⁰		01/04/2000	
00	0	00		01/03/2000	242 FOR CREDIT ONLY
2,000	10	100 ⁰⁰		11/01/2000	
17,400		870 ⁰⁰			
TOTAL OF K		TOTAL OF M			

NOTICE TO GROUP No. - - - - - RECORDED Sept 11/90

RECORDED Sept 11/90

2 POST FRACTION, REV CROWN GRANT
AND PLACER CLAIM ARE 1 UNIT EACH

2 POST FRACTION, REV CROWN GRANT
AND PLACER CLAM ARE 1 UNIT EACH

Value of work to be credited to portable assessment credit (PAC) account(s).
[May only be credited from the approved value of Box C and applied to claims.

Name of
owner/operator

www.normanmuseum.org

2

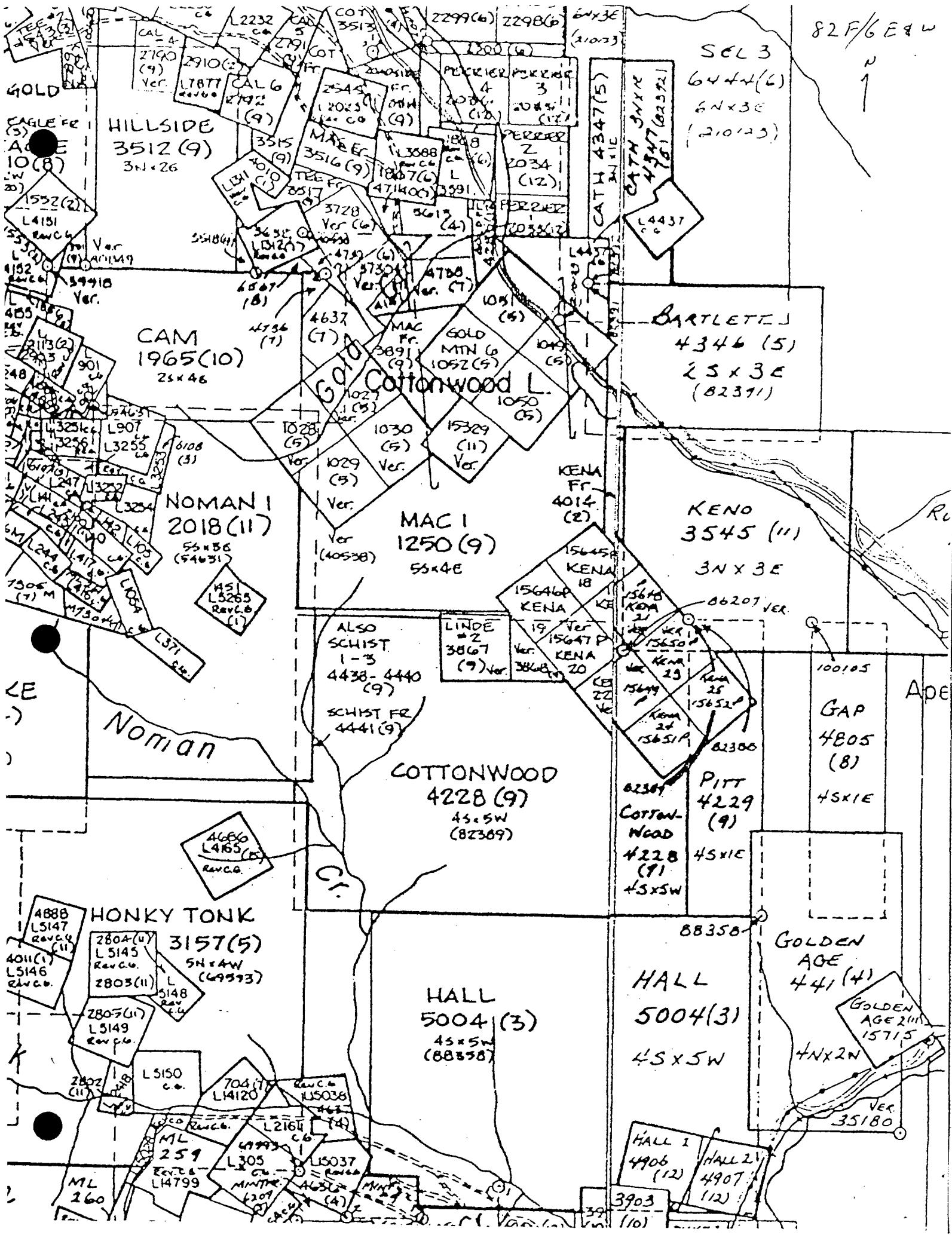
3... www.english-test.net

10

302 Amount
3,889.13 Balance

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the Mineral Tenure Act. I further acknowledge and understand that if the statements made, or information given, in this Statement of Work — Cash Payment are found to be false and the exploration and development has not been performed, as alleged in this Statement of Work — Cash Payment, then the work reported on this statement will be cancelled and the subject mineral claim(s) may as a result, forfeit to and vest back to the Province.

William H. Ziemer



APPENDIX III

**DRILL LOGS, SUMMARY DRILL LOGS,
AND ANALYSIS CERTIFICATES
FOR DRILL HOLE SH 90-1**

D R I L L L O G

HOLE NO. 5490-1

DRILL LOG					HOLE NO. 54 90-1	
INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		(lithology, alteration, mineralization, structure, age relations, etc.)
12.19	19.840				Weak chlorite. Tr - 3% pyrite. 3% - 5% pyrochotite. Tr to locally 5% Cpx. - 1% pyrite. 4% pyrochotite.	20.32 - 36.30M. Fine-grained. Grey to mottled brown. Brown alteration occurs as irregular banding or diffuse cloud-like masses. 36.30 - 59.74 20% - 30% is mottled brown. Foliation-Banding 50°-60° to C.A.
					To - 1% pyrite. 5% pyrochotite.	59.74 - 73.15M. Fine-grained. Banding at 50°-60°. 4cm quartz-vein at 72.10M. Scattered quartz-curb. fractures.
					1% ? pyrite. 2% - 5% pyrochotite. Tr. Cpx.	73.15 - 82.70M. 70% of section is brown. Not as highly foliated. (Banding at 55°-62° to C.A.) Bottom 1/3M is oxidized. (Fault)? 73.15 - 74.0M 2-4% pyrite; 2-3% po. is grey to dark-grey medium-grained section.
					Weak chlorite. Tr. Pyrite. 3% - 5% pyrochotite.	82.70 - 104.20M 20% - 60% is mottled brown. Tuff is fine-grained with local feldspar-rich sections. Abundant siliceous laminations and fractures - Weakly chloritic.
					3% - 4% pyrochotite. 4-5% pyrochotite.	104.20 - 104.80M. Feldspathic tuff. Cherty. 104.80 - 111.56M As in 82.70 - 104.20M.
		Green Grained	Medium Grained	Chloritic	Tr - 1% pyrite. 4-5% pyrochotite. Trac + chalcocite.	111.56 - 116.90M. Plagioclase + Augite crystal tuff. Silicified. Foliation 55°-60° to C.A. Weakly mottled brown.
		Pale green	Clay?	Carbonate-clay? Chlorite? (Bright Green)	2% pyrite. 2% pyrochotite.	116.90 - 117.85M. Altered F.G. tuff. Foliated (sheared) at 50°-55° to C.A. Contact gradational & brecciated.

DRILL LOG					HOLE NO. 54 90-1	
INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		(lithology, alteration, mineralization, structure, age relations, etc.)
12.19	198.40	Gray - Green	Fine to Medium- Grained	Chloritic Pyrophyllite	1% - 2% pyrite 2-3% pyrophyllite	117.85 - 120.70M. Interbedded? fine grained and feldspathic medium-grained tuff. Foliation at 50°-60° to c.a. Weakly brown altered. Irregularly silicified.
		Gray - Green to brown	Fine - Grained	Chloritic Pyrophyllite	Trace - 1% pyrite 4-5% pyrophyllite. Trace chalcocite	120.70 - 130.37M. Highly silicified with pink intrusive stringers. Foliation 55°-70° to c.a. 130.70 - 133.75M - Section more highly veined by quartz-carbonatite or quartz-carbonate related to weak pale grey-green carbonate-clay? alteration in foliation shears. Well broken 133.75 - 134.60M. 3-8% pyrophyllite.
			Fine - Grained	Chloritic	2-3% pyrite 1-2% pyrophyllite.	130.37 - 137.10M. Gray-green to pink-brown. Section to 133.50 is brecciated, broken and sheared at 30°-50° to c.a. Silicification, irregular local shiny chlorite-pyrite fractures.
		Green			1-2% pyrite 2-3% pyrophyllite	137.10 - 138.50M. Augite Crystal Tuff. Moderately siliceous. Gradual vein contacts.
		Gray - Green to Brown	Fine - Grained	Chloritic	1% pyrite 3-5% pyrophyllite Trace chalcocite	138.50 - 144.10M. Grades locally to feldspathic tuff, 30-40% mottled brown. Section marked by irregular chlorite-siliceous fractures. Abundant carbonate laminae in fractures.
						144.10 - 198.40M. Fine-grained siliceous tuff as above.
					Trace pyrite 3% - 4% pyrophyllite Tr. chalcocite	144.10 - 164.10 30% - 40% of section is mottled brown, locally in strong foliation bands, 60°-70° to c.a. 163.37M. Pale carbonate-clay? shear, locally chlorite

DRILL LOG

HOLE NO. SH 90-1

INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		(lithology, alteration, mineralization, structure, age relations, etc.)
12.19	198.40					144.10 - 198.40 M.
		Grey-			Tr. locally 1% pyr.	164.10 - 166.40 Plagioclase ± Augite crystal tuff
		Green			1-5% pyrrhotite.	locally siliceous. Weak gradation to fine-grained
		to Brown			3-5% pyrrhotite.	166.40 - 172.52 M. Fine to medium-grained
					1% pyrite	grades locally to augite-rich tuff.
						Variably silicified. Weakly chloritic.
					Tr. - 1% pyrite.	172.52 - 191.30 M. Fine-grained grey-green
					4-5% pyrrhotite.	grading to feldspathic tuff. Foliation 60°-70° N.
						3-8% pyrrhotite. Local foliation shear.
					Tr. - 1% pyrite	191.30 - 195.15 M. Fine to Med-grain feldspathic tuff
					2-3% pyrrhotite.	2-3 cm. siliceous intrusive stringer at 55° N.C.A.
					2-3% pyrite.	193.15 - 198.40 M. Fine to Medium-grained.
					1-2% pyrrhotite.	Locally chloritic. Section from 196.5-196.80 is
						a pale grey carbonate-clay alteration zone,
						locally brecciated at 70° N.C.A. with strong
						quartz-carbonate and 3-4% pyrite-pyrrhotite.
						Well broken. Irregular silicification.
198.40	212.30	TUFF	Green, Fine to Chloritic. Medium- Yellow. Coarse-grained. Grey	Carbonate Clay? Quartz Chlorite		Section is increasingly broken and altered to a yellow-grey rock with a bright-green chlorite? The zone represents a transition from the siliceous unit above to a weakly altered unit below.
					2-3% pyrite. <1% pyrrhotite.	198.40 - 203.76 M. Highly altered, abundant quartz-carbonate veins and fractures that vary from 15°-45° to C.A. with local shear. Section contains black vsg. sulphide (pyrascopyrite) Traces of chalcocite, sphalerite, galena.

DRILL LOG

HOLE NO. SH 90-1

INTERVAL		LITHOLOGY		ALTERATION		MINERALIZATION		REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE				(lithology, alteration, mineralization, structure, age relations, etc.)
198.40	212.30		Green.			2-3% pyrite. 2% pyrochlore		203.76 - 207.80M. Fine to medium-grained tuff grading to augite crystal tuff. Section is chloritic, weakly silicified, and has weak quartz-carbonate fractures and laminae.
						2% pyrite 1-2% pyrochlore		207.80M - 212.30M. Section extensively altered by carbonate-quartz-clay? sericitic + chlorite (bright apple-green chlorite)? - Banding 65°-70° to C.A. with local shear at 210.25M. - Bottom contact is broken. - Trace V.F.C. black sulphide.
212.30	237.50	AUGITE CRYSTAL TUFF	Dark- Green	Fine to Coarse Grained noted.	Alteration is weak except at bottom.	1% pyrite. Trace pyrochlore. Trace chalcopyrite		Section is highly altered to 214.80M as is about unit. Section contains up to 10% 1-5 mm deformed augite crystals and small mafic clasts, and grades locally to a fine grained andesitic? tuff. Foliation 65°-75° to C.A. - 217.8 - 218.40M - Clay-carbonate-silica-(limonitic) - 232.60 - 233.2 M - Bleached alteration zones with quartz-carbonate veins at 70° to C.A. - 234.30 - 237.50M - Weakly altered. - Locally, strong quartz-carbonate veining.
237.50	239.56	TUFF (ANDESITIC)	Gray Brownish- Green) Block.	Fine Grained	Quartz-Carbonate	2% Pyrite.		Section contains 40% very fine-grained black cherty interbeds to 2 cm. wide, and trending at 65° to C.A. Locally abundant white carbonate-quartz fractures and laminae.

DRILL LOG

HOLE NO. SH 90-1

INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		(lithology, alteration, mineralization, structure, age relations, etc.)
239.56	345.77	LAPILLI TUFF	Dark - Grey to Green to brown.	Fine to Coarse Clastic	Carbonate Chlorite Epidote	The unit is commonly coarse-grained with variations to fine-grained sections. It is normally massive, weakly foliated and weak to moderately altered. The coarse unaltered section may include up to 25% clasts that are rounded to sub-angular and range to about 5cm in diameter. The clasts include pale to dark crystal tuff, metacarbonate, augite crystal tuff (basalt)? Porphyritic andesite, and fine-grained intrusive rocks. The clasts commonly occur in a feldspathic crystal tuff matrix.
			Gray - Green:		17-27% pyrite 1-2% pyrrhotite	239.56 - 245.0M. Transition zone includes deformed fine-grained augite crystal tuff gradomy to lapilli tuff containing greyish-brown tuff layers in foliation at 65°-70°. Abundant white carbonate + quartz laminae and fractures to 3.0 cm.
			Dark Grey - Green:	Carbonate Quartz Epidote	1% pyrite	- Locally broken and altered - Granofacial contacts. 245.0 - 252.60M Section varies from fine-grain gray-green tuff through feldspathic tuff to lapilli tuff. Foliation 60°-65° to C.A.
						246.4 - 247.4 Quartz-epidote-carbonate altered
						249.9 - 250.2 Pale limonitic quartz-carbonate alteration zone with MnO ₂ .
				Carbonate Epidote	± 1% pyrite	252.60 - 270.05M. Lapilli Tuff.
						252.6 - 256.50 Grey-brown plagioclase crystal tuff. Bio-film alteration? Narrow f.c. tuff intersected at 261.50-261.70M

D R I L L L O G

HOLE NO. 54 90-1

DRILL LOG					HOLE NO. SH 90-1	
INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		
239.56	345.77	LAPILLI TUFF	Grey to Green to weak Brown	Carbonate. Weak chlorite. Biotite? -	Trace-Pb pyrite.	270.05 - 280.0M. Mottled grey. Weak epidote alteration in clasts and locally coarse quartz-carbonate + epidote fractures, and very fine carbonate microfractures. 272.64M. Limonitic carbonate-altered shear at 10° to C.A. 280.9 - 281.10M is limonitic. Alteration relates to narrow carbonate-pyrite fractures trending from 0°-15° to C.A. Section from. 281.1 - 282.8M is pervasively altered to a beige-grey colour. Bottom of section has weak alteration surfaces along 0°-30° carbonate veins.
			Grey to Green to Weak Brown	Carbonate Weak chlorite Weak epidote.	Tc - Pb pyrite.	286.0 - 303.5BM. Generally massive. Weak veining by carbonate-quartz. Section to 296.5M has weakly epidote altered clasts. Local chloritic fractures are associated with carbonate - After 296.5M, rock has weak brown cast. - Weak banding at 70° to C.A. - 303.5BM - Strong quartz-carbonate vein at 150° to C.A. - Section has evidence of rare bluish- grey quartz eyes 1-2mm in diameter (cf bottom of hole #SH 90-6.)

DRILL LOG

HOLE NO. SH 90-1

INTERVAL		LITHOLOGY		ALTERATION	MINERALIZATION	REMARKS
FROM	TO	ROCK TYPE	COLOUR	TEXTURE		(lithology, alteration, mineralization, structure, age relations, etc.)
239.56	345.77	LAPILLI TUFT			Chlorite. Sericite. Carbonate-quartz	10-20% pyrite. 303.58 - 307.50M As above. 60% of section is altered to a beige carbonate-rich zone with strong quartz-carbonate veins at 30°-50° to C.A. Weak chlorite, trace sericite.
					Carbonate-quartz Chlorite Epidote	307.50 - 313.50M Weakly altered with chlorite, epidote, minor carbonate-quartz veins and traces of hematite, limonitic at 313.50M.
						313.50 - 315.80M. Fine-grained section. Highly broken and limonitic along strong 0°-30° fractures, with carbonate-quartz veining.
						315.80 - 315.84M. Beige-green alteration around vague clasts. Bottom contact at ± 50° to C.A.
		Dark Grey	Epidote. Weak chlorite.		Trace Pyrite. Trace magnetite.	315.80 - 333.92M. As in 307.5-313.50M - weak epidote-altered clasts. - Silica-epidote alteration in 0.5-5cm bands boundary at 75°-80° to C.A. Weak carbonate ± hematite.
					weak chlorite. weak epidote	333.92 - 345.77M. As above. 333.92 - 334.67M Pervasive beige-grey alteration with carbonate-quartz veins, and weaker narrow zones at 337.20, 337.70, 344.50M - Mafic fine-grained zones locally resemble deformed bed at about 70° to C.A. - Carbonate-quartz fractures are commonly weak.
345.77		<u>END OF HOLE</u>				

SAMPLE DATA						DRILL LOG						ASSAY LAB: ACMÉ ANALYTICAL LAB						
NUMBER	SAMPLE (METRES)			CORE			VISUAL ESTIMATES (% ORE MINERALS)			ASSAY RESULTS								
	FROM	TO	LENGTH	% REC	RQD	S.G.	Cu ppm	Ph ppm	Pn ppm	As ppm	Au "ppm	Ag "ppm	Bi ppm	Sn ppm	W ppm	Zn ppm		
93001	12.19 m	14.0 m	1.81 m	94 %			107	16	207	9	5							
93002	14.0 m	15.5 m	1.5 m	100 %			187	18	295	3	5							
93003	15.5 m	17.0 m	1.5 m	94 %			187	17	259	58	6							
93004	17.0 m	18.5 m	1.5 m	98 %			115	11	266	25	3							
93005	18.5 m	20.0 m	1.5 m	99 %			106	31	321	98	1							
93006	20.0 m	21.5 m	1.5 m	100 %			296	8	129	44	1							
93007	21.5 m	23.0 m	1.5 m	100 %			268	25	266	15	4							
93008	23.0 m	24.5 m	1.5 m	98 %			1427	14	631	5	12							
93009	24.5 m	26.0 m	1.5 m	98 %			.85	20	91	10	2							
93010	26.0 m	27.5 m	1.5 m	100 %			122	7	76	4	1							
93011	27.5 m	29.0 m	1.5 m	100 %			172	14	130	84	1							
93012	29.0 m	30.5 m	1.5 m	100 %			142	17	181	2	1							
93013	30.5 m	32.0 m	1.5 m	100 %			232	9	159	5	1							
93014	32.0 m	33.5 m	1.5 m	100 %			115	10	124	16	2							
93015	33.5 m	35.0 m	1.5 m	100 %			76	2	63	6	1							
93016	35.0 m	36.5 m	1.5 m	100 %			103	13	65	7	1							
93017	36.5 m	38.0 m	1.5 m	100 %			213	14	173	12	11							
93018	38.0 m	39.5 m	1.5 m	100 %			151	12	166	9	16							
93019	39.5 m	41.0 m	1.5 m	100 %			170	13	173	150	10							
93020	41.0 m	42.5 m	1.5 m	100 %			141	11	207	231	9							
93021	42.5 m	44.0 m	1.5 m	80 %			112	10	156	51	5							
93022	44.0 m	45.5 m	1.5 m	75 %			133	12	126	17	6							
93023	45.5 m	47.0 m	1.5 m	100 %			208	15	156	9	8							
93024	47.0 m	48.5 m	1.5 m	100 %			202	15	114	24	22							
93025	48.5 m	50.0 m	1.5 m	100 %			176	17	133	10	24							
93026	50.0 m	51.5 m	1.5 m	100 %			204	13	116	20	35							
93027	51.5 m	53.0 m	1.5 m	90 %			171	8	120	7	34							
93028	53.0 m	54.5 m	1.5 m	90 %			203	10	103	5	43							
93029	54.5 m	56.0 m	1.5 m	100 %			148	4	110	73	31							
93030	56.0 m	57.5 m	1.5 m	100 %			164	2	92	9	50							
93031	57.5 m	59.0 m	1.5 m	100 %			139	6	107	6	74							

SAMPLE DATA						DRILL LOG		ASSAY LAB: ACME ANALYTICAL LTD				
NUMBER	SAMPLE (METRES)			CORE		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS					
	FROM	TO	LENGTH	% REC	RQD		Cu ppm	Pb ppm	Zn ppm	As ppm	Au ‰	
93032	59.0m	60.5m	1.5m	100%			130	6	91	2	33	
93033	60.5m	62.0m	1.5m	100%			146	12	118	11	33	
93034	62.0m	63.5m	1.5m	100%			141	7	121	2	41	
93035	63.5m	65.0m	1.5m	100%			141	9	110	3	23	
93036	65.0m	66.5m	1.5m	98%			154	13	89	2	24	
93037	66.5m	68.0m	1.5m	96%			162	14	76	2	21	
93038	68.0m	69.5m	1.5m	95%			179	4	108	21	28	
93039	69.5m	71.0m	1.5m	94%			143	7	105	3	89	
93040	71.0m	72.5m	1.5m	95%			146	8	101	2	17	
93041	72.5m	74.0m	1.5m	80%			184	14	118	125	14	
93042	74.0m	75.5m	1.5m	85%			264	19	141	8	40	
93043	75.5m	77.0m	1.5m	100%			297	7	239	6	16	
93044	77.0m	78.5m	1.5m	98%			334	7	236	11	21	
93045	78.5m	80.0m	1.5m	90%			916	10	180	7	57	
93046	80.0m	81.5m	1.5m	92%			206	5	162	2	34	
93047	81.5m	83.0m	1.5m	82%			162	10	144	6	33	
93048	83.0m	84.5m	1.5m	85%			165	6	93	2	63	
93049	84.5m	86.0m	1.5m	100%			160	5	103	8	44	
93050	86.0m	87.5m	1.5m	100%			153	6	121	2	35	
93051	87.5m	89.0m	1.5m	100%	10-50cm 2-16		155	6	123	2	33	
93052	89.0m	90.5m	1.5m	100%	1-75cm FRC		234	8	117	78	31	
93053	90.5m	92.0m	1.5m	100%	10-50cm 2-16		144	6	150	4	14	
93054	92.0m	93.5m	1.5m	100%	5-30 cm FRC		142	4	184	3	19	
93055	93.5m	95.0m	1.5m	100%	5-75cm FRC		164	9	145	4	25	
93056	95.0m	96.5m	1.5m	98%	5-25 cm FRC		194	10	114	2	12	
93057	96.5m	98.0m	1.5m	92%	1-20cm FRC		143	6	74	4	14	
93058	98.0m	99.5m	1.5m	100%	15-40cm FRC		231	6	83	8	20	
93059	99.5m	101.0m	1.5m	100%	6-30cm FRC		222	6	83	4	11	
93060	101.0m	102.5m	1.5m	100%	2-36 cm		146	7	84	3	13	
93061	102.5m	104.0m	1.5m	100%	6-31cm		205	8	94	5	21	
93062	104.0m	105.5m	1.5m	100%	2-35cm FRC		181	7	90	3	11	

SAMPLE DATA DRILL LOG

ASSAY LAB: Acma Analytical Lab

SAMPLE (METRES)						CORE		VISUAL ESTIMATES (% ORE MINERALS)		ASSAY RESULTS				
NUMBER	FROM	TO	LENGTH	% REC	RQD	S.G.			Cu ppm	Pb ppm	Zn ppm	As ppm	Au † ppm	Ag ppm
93063	105.5m	107.0m	1.5m	100%	1-28cm RQD				221	5	103	7	27	
93064	107.0m	108.5m	1.5m	100%	1-65cm RQD				178	5	115	2	23	
93065	108.5m	110.0m	1.5m	97%	0.5-10cm RQD				124	7	97	2	5	
93066	110.0m	111.5m	1.5m	100%	1-23cm RQD				147	9	64	4	21	
93067	111.5m	113.0m	1.5m	100%	1-23cm RQD				232	5	92	3	51	
93068	113.0m	114.5m	1.5m	100%	20-50cm RQD				211	3	57	12	30	
93069	114.5m	116.0m	1.5m	97%	5-10cm RQD				229	6	78	8	14	
93070	116.0m	117.5m	1.5m	97%	5-30cm RQD				114	14	90	30	7	
93071	117.5m	119.0m	1.5m	100%	1-27cm RQD				129	18	111	12	9	
93072	119.0m	120.5m	1.5m	100%	10-20cm RQD				122	2	89	13	15	
93073	120.5m	122.0m	1.5m	100%	1-15cm RQD				101	8	121	16	15	
93074	122.0m	123.5m	1.5m	100%	1-23cm RQD				342	10	84	27	26	
93075	123.5m	125.0m	1.5m	90%	1cm irregular Heavy iron				274	8	79	7	17	
93076	125.0m	126.5m	1.5m	99%	1cm irregular Heavy iron				291	11	66	9	67	
93077	126.5m	128.0m	1.5m	97%	5-20cm RQD				1	2	1	2	10	
93078	128.0m	129.5m	1.5m	100%	5-15cm RQD				276	7	71	11	17	
93079	129.5m	131.0m	1.5m	86%	5-10cm RQD				249	7	79	114	16	
93080	131.0m	132.5m	1.5m	90%	1-10cm RQD				203	7	85	56	20	
93081	132.5m	134.0m	1.5m	97%	1-20cm RQD				281	7	100	15	28	
93082	134.0m	135.5m	1.5m	98%	1-15cm RQD				206	7	122	3	26	
93083	135.5m	137.0m	1.5m	98%	1-2cm				221	6	90	8	24	
93084	137.0m	138.5m	1.5m	98%	1-2cm				164	4	67	2	31	
93085	138.5m	140.0m	1.5m	100%	5-10cm				176	4	68	2	30	
93086	140.0m	141.5m	1.5m	100%	5-28cm				220	4	80	2	4	
93087	141.5m	143.0m	1.5m	100%	1-0.5cm				198	3	8.1	7	8	
93088	143.0m	144.5m	1.5m	100%	1-20cm				171	3	75	2	21	
93089	144.5m	146.0m	1.5m	100%	2cm				197	5	57	6	19	
93090	146.0m	147.5m	1.5m	100%	1cm				126	3	52	4	11	
93091	147.5m	149.0m	1.5m	100%	1-2cm				103	4	55	17	4	
93092	149.0m	150.5m	1.5m	100%	1-2cm				162	4	58	2	16	
93093	150.5m	152.0m	1.5m	100%	5-64cm RQD				267	4	62	2	18	

Au † ANALYSIS BY IFA/ICP
From 10 gm sample

DRILL HOLE NO. SH 90-1

SAMPLE DATA					DRILL LOG		ASSAY LAB: ACME ANALYTICALS LOG					
NUMBER	SAMPLE (METRES)			CORE		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS					
	FROM	TO	LENGTH	% REC	RQD		Cu ppm	Ph ppm	Zn ppm	As ppm	Sn ppm	Ag ppm
93094	152.0m	153.5m	1.5m	100%	5-80%		208	6	83	26	19	
93095	153.5m	155.0m	1.5m	100%	8-34%		154	4	75	7	10	
93096	155.0m	156.5m	1.5m	100%	10-47%		234	4	82	3	12	
93097	156.5m	158.0m	1.5m	100%	5-33%		217	6	92	4	16	
93098	158.0m	159.5m	1.5m	100%	10-35%		203	3	92	7	18	
93099	159.5m	161.0m	1.5m	100%	10-70%		287	6	99	4	74	
93100	161.0m	162.5m	1.5m	100%	10-50%		352	3	53	2	73	
93101	162.5m	164.0m	1.5m	100%	1-25%		373	5	101	80	56	
93102	164.0m	165.5m	1.5m	100%	3-70%		1440	4	775	2	33	
93103	165.5m	167.0m	1.5m	<100%	10-65%		316	4	144	5	17	
93104	167.0m	168.5m	1.5m	99%	5-90%		183	4	118	6	24	
93105	168.5m	170.0m	1.5m	≤100%	6-23%		194	4	103	3	42	
93106	170.0m	171.5m	1.5m	100%	8-65%		301	4	64	5	65	
93107	171.5m	173.0m	1.5m	100%	6-50%		212	5	96	3	36	
93108	173.0m	174.5m	1.5m	100%	10-35%		344	2	97	2	21	
93109	174.5m	176.0m	1.5m	100%	4-50%		379	8	93	2	4	
93110	176.0m	177.5m	1.5m	100%	2-75%		357	4	102	2	6	
93111	177.5m	179.0m	1.5m	100%	2-30%		174	6	60	2	1	
93112	179.0m	180.5m	1.5m	100%	2-30%		303	7	88	2	2	
93113	180.5m	182.0m	1.5m	100%	5-30%		368	6	71	6	28	
93114	182.0m	183.5m	1.5m	100%	5-70%		347	5	56	6	7	
93115	183.5m	185.0m	1.5m	100%	10-70%		576	7	82	2	9	
93116	185.0m	186.5m	1.5m	100%	8-70%		380	7	96	4	41	
93117	186.5m	188.0m	1.5m	100%	8-25%		372	6	82	8	11	
93118	188.0m	189.5m	1.5m	100%	10-65%		403	6	84	3	20	
93119	189.5m	191.0m	1.5m	≤100%	10-70%		444	6	61	4	40	
93120	191.0m	192.5m	1.5m	99%	10-50%		253	2	53	3	30	
93121	192.5m	194.0m	1.5m	≤100%	2-25%		421	5	57	6	37	
93122	194.0m	195.5m	1.5m	100%	2-10%		379	70	308	7	65	
93123	195.5m	197.0m	1.5m	100%	3-15%		245	64	186	64	16	
93124	197.0m	198.5m	1.5m	≤100%	2-10%		454	5	88	7	35	

SAMPLE DATA DRILL LOG

ASSAY LAB: ACMIE ANALYTICAL LAB

NUMBER	SAMPLE (METERS)			CORE			VISUAL ESTIMATES (% ORE MINERALS)		ASSAY RESULTS				
	FROM	TO	LENGTH	% REC	RQD	S.G.	Cu ppm	Pb ppm	Zn ppm	As ppm	Au †† ppm		
93125	198.5m	200.0m	1.5m	≤ 100%	1-1cm - 2.5cm		136	147	324	61	33		
93126	200.0m	201.5m	1.5m	100%	1-1cm - 2.5cm		64	16	116	98	15		
93127	201.5m	203.0m	1.5m	~ 85%	1-1cm - 2.5cm		114	207	76	2162	477		
93128	203.0m	204.5m	1.5m	~ 80%	1-1cm - 2.5cm		185	4	92	16	849		
93129	204.5m	206.0m	1.5m	100%	1-2.5cm FRG		215	4	76	12	46		
93130	206.0m	207.5m	1.5m	100%	1-2.5cm FRG		184	5	115	4	40		
93131	207.5m	209.0m	1.5m	100%	4-40cm FRG		260	4	127	29	17		
93132	209.0m	210.5m	1.5m	100%	1-10cm - FRG		121	3	123	71	16		
93133	210.5m	212.0m	1.5m	100%	1-15cm FRG		96	4	80	71	7		
93134	212.0m	213.5m	1.5m	~ 99%	1-15cm FRG		120	2	95	12	8		
93135	213.5m	215.0m	1.5m	~ 97%	1-15cm FRG		117	2	74	5	12		
93136	215.0m	216.5m	1.5m	≤ 100%	1-15cm FRG		127	2	74	8	9		
93137	216.5m	218.0m	1.5m	100%	1-10cm - FRG		87	2	163	2	1		
93138	218.0m	219.5m	1.5m	100%	1-10cm - FRG		130	2	64	7	4		
93139	219.5m	221.0m	1.5m	~ 95%	1-20cm - FRG		133	2	47	7	5		
93140	221.0m	222.5m	1.5m	91%	1-30cm - FRG		103	2	64	8	6		
93141	222.5m	224.0m	1.5m	~ 95%	2-20cm - FRG		88	4	77	3	3		
93142	224.0m	225.5m	1.5m	100%	1-15cm - FRG		117	2	47	4	5		
93143	225.5m	227.0m	1.5m	100%	1-15cm - FRG		129	2	38	7	1		
93144	227.0m	228.5m	1.5m	~ 98%	1-15cm - FRG		81	2	31	6	5		
93145	228.5m	230.0m	1.5m	81%	1-15cm - FRG		109	2	38	5	1		
93146	230.0m	231.5m	1.5m	~ 90%	1-35cm - FRG		94	2	41	8	3		
93147	231.5m	233.0m	1.5m	100%	2-30cm - FRG		127	2	45	10	5		
93148	233.0m	234.5m	1.5m	100%	4-50cm - FRG		109	2	61	12	7		
93149	234.5m	236.0m	1.5m	100%	4-45cm - FRG		134	2	62	8	4		
93150	236.0m	237.5m	1.5m	100%	7-40cm - FRG		121	2	64	8	10		
93151	237.5m	239.0m	1.5m	~ 72%	51-80cm - FRG		97	7	263	45	20		
93152	239.0m	240.5m	1.5m	~ 98%	1-40cm - FRG		99	11	141	49	21		
93153	240.5m	242.0m	1.5m	93%	60-80cm - FRG		140	19	124	2	15		
93154	242.0m	243.5m	1.5m	~ 87%	2-30cm - FRG		133	8	85	5	41		
93155	243.5m	245.0m	1.5m	~ 96%	61-25cm - FRG		93	3	113	3	10		

Au †† ANALYSIS BY FA/ICP
FLUO 10 GM SAMPLE

SAMPLE DATA DRILL LOG

ASSAY LAB: ACMU ANALYTICAL LAB

SAMPLE DATA DRILL LOG						ASSAY RESULTS					
SAMPLE (METRES)	FROM	TO	LENGTH	% REC	CORE	VISUAL ESTIMATES	Cu ppm	Ph ppm	Zn ppm	As ppm	Au ^{**} ppm
NUMBER					RQD	(% ORE MINERALS)					
93156	245.0m	246.5m	1.5m	100%	2-6cm RQD greenish grey light grey grey-green grey-green		18	2	105	5	3
93157	246.5m	248.0m	1.5m	~96%	2-3cm RQD greenish grey grey-green		17	2	79	2	3
93158	248.0m	249.5m	1.5m	~90%	5-10cm RQD greenish grey grey-green		32	2	84	6	7
93159	249.5m	251.0m	1.5m	99%	7-10cm RQD greenish grey grey-green		27	4	83	2	1
93160	251.0m	252.5m	1.5m	~100%	2-3cm RQD greenish grey grey-green		19	4	91	2	9
93161	252.5m	254.0m	1.5m	97%	2-4cm RQD greenish grey grey-green		3	5	94	2	12
93162	254.0m	255.5m	1.5m	=100%	2-3cm RQD greenish grey grey-green		4	8	93	2	11
93163	255.5m	257.0m	1.5m	99%	5-8cm RQD greenish grey grey-green		24	7	89	6	65
93164	257.0m	258.5m	1.5m	99%	8-10cm RQD greenish grey grey-green		14	2	81	2	86
93165	258.5m	260.0m	1.5m	99%	2-3cm RQD greenish grey grey-green		22	5	100	2	4
93166	260.0m	261.5m	1.5m	~99%	5-8cm RQD greenish grey grey-green		16	3	79	2	4
93167	261.5m	263.0m	1.5m	98%	5-10cm RQD greenish grey grey-green		23	5	88	2	5
93168	263.0m	264.5m	1.5m	94%	2-2.5cm RQD greenish grey grey-green		17	3	83	2	2
93169	264.5m	266.0m	1.5m	100%	10-15cm RQD greenish grey grey-green		16	5	90	2	2
93170	266.0m	267.5m	1.5m	100%	5-8cm RQD greenish grey grey-green		21	3	81	4	2
93171	267.5m	269.0m	1.5m	99%	5-8cm RQD greenish grey grey-green		41	3	80	2	1
SELECTED SAMPLES FROM THIS P						INT TO TIME END OF THIS HOLE	—	—	—	—	—
93174	272.0m	273.5m	1.5m	97%	2-5cm RQD greenish grey grey-green		17	20	80	13	8
93179	279.5m	281.0m	1.5m	84%	2-3cm RQD greenish grey grey-green		22	12	87	56	4
93180	281.0m	282.5m	1.5m	98%	2-3cm RQD greenish grey grey-green		26	20	97	23	9
93181	282.5m	284.0m	1.5m	100%	2-3cm RQD greenish grey grey-green		10	22	65	31	7
93182	284.0m	285.5m	1.5m	100%	2-3cm RQD greenish grey grey-green		21	12	61	15	5
93194	302.0m	303.5m	1.5m	47%	8-10cm RQD greenish grey grey-green		29	8	65	15	10
93195	303.5m	305.0m	1.5m	100%	2-3cm RQD greenish grey grey-green		11	5	56	8	4
93196	305.0m	306.5m	1.5m	100%	2-3cm RQD greenish grey grey-green		14	2	57	7	7
93197	306.5m	308.0m	1.5m	100%	2-3cm RQD greenish grey grey-green		15	3	90	12	4
93201	312.5m	314.0m	1.5m	89%	2-3cm RQD greenish grey grey-green		15	6	95	3	11
93202	314.0m	315.5m	1.5m	90%	4-6cm RQD greenish grey grey-green		19	4	74	36	8
93203	315.5m	317.0m	1.5m	100%	2-4cm RQD greenish grey grey-green		24	2	105	3	10

Au^{**} ANALYSIS BY FA ICP
FROM 10 CM SAMPLE

S A M P L E D A T A D R I L L L O G

ASSAY LAB: Acme Analytical Lab

PAGE 7 OF 7

AN⁺ ANALYSIS BY FAVICI
FROM 10 GM SAMPLE

DRILL HOLE NO. SH 40-1

APPENDIX IV

ACME ANALYTICAL LAB RESULTS SHEETS

GEOCHEMICAL ANALYSIS CERTIFICATE

Noramco Exploration Inc. PROJECT 2013 File # 90-2380
 900 - 999 W. Hastings St., Vancouver BC V6C 2W2 Submitted by: T. LISLE

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppb	
A 93001	2	107	16	207	.8	21	25	1843	7.12	9	5	ND	1	32	2.1	2	2	148	1.27	.127	2	30	2.64	90	.15	2	2.95	.09	1.37	1	5
A 93002	2	187	18	275	.7	19	27	1507	6.92	3	5	ND	1	41	2.8	2	2	133	1.43	.126	2	28	2.64	129	.12	2	2.64	.07	1.26	1	5
A 93003	1	187	17	259	.6	17	23	1767	6.34	58	5	ND	1	119	2.0	2	4	84	2.62	.122	3	21	2.55	90	.09	2	2.13	.04	.97	1	6
A 93004	1	115	11	266	.6	15	24	1742	6.23	25	5	ND	1	50	1.4	2	2	151	1.82	.130	2	31	2.66	144	.16	3	2.88	.07	1.59	1	3
A 93005	1	106	31	321	.5	12	24	1569	6.60	98	5	ND	1	81	2.1	2	2	127	1.90	.128	2	23	2.55	64	.12	3	2.62	.08	1.26	1	1
A 93006	1	296	8	129	.5	15	23	903	5.87	44	5	ND	1	72	.2	2	2	93	1.98	.127	2	15	2.26	124	.10	2	2.32	.07	.95	1	1
A 93007	1	268	25	266	.9	21	29	1341	7.52	15	6	ND	1	66	3.3	2	10	73	2.90	.128	3	29	1.92	81	.09	3	2.03	.05	.62	1	4
A 93008	1	1427	14	631	2.4	23	27	1054	7.93	5	5	ND	1	27	5.9	2	2	71	1.82	.118	2	45	2.24	80	.10	3	2.19	.01	.91	1	12
A 93009	2	85	20	91	.5	13	28	1055	7.42	10	5	ND	1	59	.6	2	7	108	1.47	.130	2	20	2.42	70	.13	5	3.42	.17	1.48	1	2
A 93010	3	122	7	76	.6	15	28	672	6.54	4	5	ND	1	35	.2	2	5	117	.99	.131	2	20	1.84	94	.13	2	2.37	.12	1.17	1	1
A 93011	2	172	19	130	.7	16	27	959	7.15	84	5	ND	1	68	.9	3	4	119	1.52	.136	2	19	2.29	116	.11	3	2.83	.11	1.17	1	1
A 93012	2	142	17	181	.6	15	23	1292	6.81	2	6	ND	1	67	1.5	2	2	161	1.65	.136	2	25	2.42	161	.16	2	3.64	.19	1.65	1	1
A 93013	1	232	9	159	.7	19	26	1647	8.21	5	6	ND	1	48	1.1	2	2	139	1.27	.135	2	23	2.32	140	.16	2	3.43	.11	1.52	1	1
A 93014	1	115	10	129	.6	18	31	1141	7.83	16	5	ND	1	56	1.2	2	2	87	1.52	.129	2	16	2.13	94	.10	3	2.57	.09	1.03	1	2
A 93015	1	76	2	63	.3	18	29	717	6.69	6	5	ND	1	19	.9	2	2	97	.73	.138	2	20	2.39	93	.14	4	2.71	.06	1.41	1	1
A 93016	1	103	13	65	.5	17	27	715	6.66	7	5	ND	1	29	.2	2	2	86	.97	.139	2	20	2.45	98	.12	2	2.87	.08	1.32	1	1
STANDARD C/AU-R	18	58	42	131	7.2	69	31	1027	4.07	37	21	7	37	52	18.3	15	18	55	.54	.095	36	58	.94	184	.07	36	1.97	.06	.14	11	485

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: JUL 9 1990 DATE REPORT MAILED: July 12/90 SIGNED BY..... D.TOEY, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Noramco Exploration Inc. PROJECT 2013 File # 90-2422
 900 - 999 W. Hastings St., Vancouver BC V6C 2W2 Submitted by: W.J. LEWIS

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	Tl %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 93017	1	213	18	173	1.5	20	25	1339	8.05	12	5	ND	1	51	1.2	2	2	162	1.87	.121	2	32	2.52	42	.24	2	2.98	.07	1.80	1	11
A 93018	1	151	12	166	1.5	17	24	1797	6.70	9	5	ND	1	104	.7	2	2	154	3.36	.119	3	34	2.53	59	.20	2	2.61	.04	1.46	1	16
A 93019	1	170	13	173	1.6	14	25	1933	7.11	150	5	ND	1	86	.5	2	2	171	2.99	.129	4	15	2.54	76	.21	2	2.83	.05	1.61	3	10
A 93020	1	141	11	207	1.4	14	23	2147	7.12	231	5	ND	1	114	.7	5	2	160	2.94	.123	4	16	2.71	92	.20	7	2.71	.04	1.61	1	9
A 93021	1	112	10	156	1.6	15	20	1829	6.73	51	5	ND	2	85	.5	2	2	164	2.45	.127	4	23	2.46	105	.18	2	2.66	.06	1.51	1	5
A 93022	1	133	12	126	1.5	22	22	1076	6.95	17	5	ND	2	42	.3	2	2	174	1.13	.122	2	24	2.49	96	.21	2	2.54	.04	1.59	1	6
A 93023	1	208	15	156	1.5	13	26	1125	8.08	9	5	ND	1	44	.8	2	2	188	1.21	.128	2	11	2.33	98	.23	2	2.89	.10	1.58	1	8
A 93024	1	202	15	114	1.3	23	26	1310	7.31	24	5	ND	2	97	.7	2	4	132	3.08	.123	2	38	1.94	95	.18	3	2.75	.11	1.31	1	22
A 93025	2	176	17	133	1.4	22	25	1218	7.56	10	5	ND	1	41	.6	2	4	153	1.64	.112	2	24	2.02	81	.18	2	2.17	.04	.89	1	24
A 93026	1	204	13	116	1.6	39	28	1555	6.74	20	5	ND	1	75	.6	3	5	140	3.19	.093	2	71	2.11	107	.16	2	1.95	.04	.93	1	35
A 93027	1	171	8	120	1.2	37	26	1575	5.96	7	5	ND	1	58	.4	2	5	146	3.47	.086	2	72	2.12	144	.17	2	2.17	.04	1.29	1	34
A 93028	1	203	10	103	1.3	39	27	1688	6.05	5	5	ND	1	68	.4	2	6	137	4.62	.089	2	76	1.82	121	.17	2	1.83	.04	.96	1	43
A 93029	1	198	9	110	1.3	38	28	1678	6.13	73	5	ND	1	143	.8	2	5	150	5.45	.089	2	66	2.08	109	.15	3	2.03	.03	.79	1	31
A 93030	1	164	7	92	1.1	44	28	1288	5.66	9	5	ND	1	67	.4	2	5	114	4.29	.092	2	73	1.56	98	.16	3	1.57	.03	.51	1	50
A 93031	1	139	6	107	1.1	37	28	1233	5.64	6	5	ND	1	58	.2	2	4	138	2.88	.093	2	69	1.92	157	.19	2	2.11	.04	1.22	1	34
A 93032	1	130	6	91	.9	36	26	1176	5.27	2	5	ND	1	61	.2	2	2	116	2.78	.092	2	60	1.57	113	.19	2	1.77	.05	.95	1	33
A 93033	1	146	12	118	1.2	33	28	1425	6.23	11	5	ND	1	42	.4	2	4	145	2.58	.106	2	62	1.96	124	.19	2	2.14	.04	1.29	1	33
A 93034	2	141	7	121	1.5	21	24	1434	6.38	2	5	ND	2	39	.4	2	3	146	1.97	.123	3	37	1.88	116	.19	2	2.13	.05	1.42	1	41
A 93035	2	141	9	110	1.2	21	23	1319	6.19	3	5	ND	2	48	.3	2	3	140	2.23	.122	3	31	1.80	99	.18	2	2.07	.05	1.28	1	23
A 93036	1	159	13	89	1.0	17	20	884	5.97	2	5	ND	2	46	.2	2	4	108	1.56	.119	3	14	1.45	52	.14	2	1.74	.05	.83	1	24
A 93037	1	162	14	76	1.2	16	20	880	5.69	2	5	ND	2	38	.4	2	4	104	1.85	.115	2	13	1.25	42	.14	3	1.49	.06	.76	1	21
A 93038	1	179	9	100	1.0	26	23	1109	5.92	21	5	ND	2	77	.4	2	2	128	2.47	.117	4	44	1.74	70	.14	2	1.79	.04	.78	1	28
A 93039	1	143	7	105	1.1	24	22	1129	5.40	3	5	ND	2	44	.2	2	5	127	1.93	.112	4	46	1.66	122	.17	2	1.97	.05	1.22	1	89
A 93040	2	146	8	101	.9	23	20	986	5.52	2	5	ND	2	34	.2	2	2	132	1.37	.115	4	43	1.77	100	.17	2	1.92	.04	1.01	1	17
A 93041	3	189	14	118	1.4	22	22	1179	5.83	125	5	ND	2	121	.5	5	4	115	2.27	.114	3	31	1.73	68	.12	2	1.73	.04	.80	1	18
A 93042	1	264	10	141	1.1	21	25	1700	6.13	8	5	ND	2	64	.3	2	5	143	2.92	.129	3	32	1.74	99	.19	2	2.27	.04	1.21	1	40
A 93043	1	297	7	239	.9	13	23	1833	6.06	6	5	ND	2	71	.4	2	2	180	3.14	.112	4	9	1.95	197	.26	2	2.99	.04	1.83	1	16
A 93044	1	339	7	236	.9	8	21	2083	6.06	11	5	ND	1	65	.3	2	2	172	2.74	.115	4	3	2.01	267	.25	2	3.01	.05	1.80	1	21
A 93045	2	916	10	180	1.3	11	22	1784	5.86	7	5	ND	2	72	.6	2	7	147	3.11	.106	3	6	1.65	138	.19	2	2.20	.04	1.12	1	57
A 93046	1	206	5	162	1.0	11	23	1664	6.10	2	5	ND	2	62	.3	2	2	168	2.69	.117	3	5	1.93	234	.24	2	2.91	.05	1.90	1	39
A 93047	1	162	10	144	1.2	11	26	1411	6.72	6	5	ND	2	47	.5	2	3	179	1.99	.133	3	4	2.08	119	.18	2	2.66	.05	1.44	2	33
A 93048	1	165	6	93	.9	14	24	1229	5.95	2	5	ND	2	74	.2	2	6	121	2.94	.129	3	7	1.49	70	.16	2	2.10	.08	1.08	1	63
STANDARD C/AU-R	18	63	40	133	7.5	73	31	1026	4.02	37	22	7	39	52	18.5	15	19	58	.51	.094	38	59	.93	182	.09	35	1.96	.06	.13	11	490

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: JUL 11 1990 DATE REPORT MAILED: July 13 /90 SIGNED BY: C. L. D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SH-90-1

GEOCHEMICAL ANALYSIS CERTIFICATE

Noramco Exploration Inc. PROJECT 2013 File # 90-2605 Page 1
900 - 999 W. Hastings St., Vancouver BC V6C 2W2

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 93049	1	160	5	103	.4	17	21	1332	5.44	8	5	ND	1	120	.5	2	5	141	3.26	.118	4	20	1.63	47	.15	4	2.02	.06	.72	1	44
A 93050	1	153	6	121	.3	19	25	1514	6.04	2	5	ND	1	63	.3	2	3	143	2.68	.105	2	20	1.75	101	.20	3	2.49	.07	1.26	1	35
A 93051	1	155	6	123	.6	13	24	1370	6.30	2	5	ND	1	53	.3	2	3	169	2.51	.131	3	16	1.97	101	.22	4	2.65	.07	1.24	1	33
A 93052	1	234	8	117	.8	16	24	1264	6.24	78	5	ND	1	54	.4	2	3	155	1.95	.120	3	12	1.92	96	.18	2	2.51	.07	1.20	1	31
A 93053	1	144	6	150	.4	8	21	1474	5.77	4	5	ND	1	80	.4	2	2	179	1.74	.128	3	4	2.16	108	.24	2	2.95	.07	1.42	1	14
A 93054	1	142	4	184	.5	9	23	1569	6.07	3	5	ND	1	35	.5	2	2	187	1.45	.126	3	4	2.21	141	.24	4	3.15	.07	1.67	1	19
A 93055	1	164	9	145	.5	12	24	1331	6.10	4	5	ND	2	56	.4	2	4	146	2.24	.121	3	10	1.75	92	.20	2	2.57	.10	1.28	1	25
A 93056	1	194	10	119	.7	21	24	1130	6.06	2	5	ND	2	84	.5	2	3	138	3.13	.119	3	30	1.98	78	.16	5	2.47	.10	1.01	1	12
A 93057	2	187	6	79	.5	20	21	931	5.17	4	5	ND	2	58	.3	2	4	109	2.98	.114	3	20	1.36	57	.16	2	1.52	.06	.52	1	14
A 93058	2	231	6	83	.8	24	22	969	5.53	8	5	ND	2	79	.2	2	4	93	3.31	.105	2	28	1.29	57	.15	2	1.63	.07	.46	1	20
A 93059	1	222	6	83	.6	32	26	927	5.98	4	5	ND	1	111	.2	2	6	102	2.65	.102	2	36	1.52	61	.15	4	1.89	.08	.52	1	11
A 93060	1	196	7	89	.5	21	24	937	6.42	3	5	ND	1	40	.3	2	3	115	2.05	.108	2	14	1.65	94	.18	2	1.97	.06	.80	6	13
A 93061	1	205	8	94	.9	16	22	982	6.16	5	5	ND	2	51	.4	2	6	131	2.31	.128	2	8	1.77	90	.19	3	2.12	.08	.79	1	21
A 93062	1	181	7	90	.7	13	24	874	5.91	3	5	ND	2	45	.4	2	3	139	1.48	.130	3	12	1.85	67	.18	2	1.94	.06	.66	1	11
A 93063	1	221	5	103	.7	22	26	1044	6.48	7	5	ND	2	65	.5	2	3	139	2.57	.127	3	16	1.83	89	.20	4	2.18	.07	.83	4	27
A 93064	1	178	5	115	.5	9	24	1151	6.34	2	5	ND	2	90	.3	2	3	127	2.31	.145	4	2	1.72	90	.19	3	2.42	.09	.89	1	23
A 93065	2	124	7	97	.6	9	18	1011	5.13	2	5	ND	2	112	.3	2	2	84	2.33	.130	4	2	1.85	68	.14	5	2.31	.08	.68	1	5
A 93066	1	147	9	64	.9	39	25	651	6.77	4	5	ND	2	31	.3	2	5	68	1.46	.139	2	32	1.59	63	.13	4	1.67	.04	.44	1	21
A 93067	1	232	5	92	.7	109	38	939	6.53	3	5	ND	1	51	.5	2	7	100	2.03	.105	2	127	2.06	78	.19	8	2.17	.08	.50	1	51
A 93068	1	211	3	57	.5	137	30	721	5.31	12	5	ND	1	53	.4	3	6	65	2.14	.102	2	117	1.38	41	.15	5	1.52	.09	.20	1	30
A 93069	1	229	6	78	.6	94	36	827	6.59	8	5	ND	1	55	.5	2	6	98	2.24	.090	2	105	1.95	76	.16	2	2.00	.05	.44	2	14
A 93070	1	114	14	90	.6	103	25	1234	5.31	30	5	ND	1	274	.4	11	2	79	4.43	.087	2	99	2.63	48	.10	2	1.87	.04	.29	1	7
A 93071	1	129	18	111	.7	59	21	1342	5.89	12	5	ND	1	266	.7	2	4	145	4.06	.101	3	80	3.18	84	.11	3	2.34	.03	.40	1	9
A 93072	1	122	2	89	.5	92	22	1030	4.67	13	5	ND	1	95	.4	4	2	121	3.04	.088	2	103	2.35	84	.15	6	2.26	.06	.48	1	15
A 93073	1	101	8	121	.4	103	20	1544	5.15	16	5	ND	1	233	.5	2	3	169	4.49	.084	3	147	3.59	162	.12	4	3.11	.05	.80	1	15
A 93074	1	392	10	84	.8	29	26	1507	7.21	27	5	ND	2	234	.6	2	3	95	6.71	.116	4	23	1.58	43	.06	4	1.90	.03	.26	17	26
A 93075	1	274	8	79	.7	24	25	1318	7.62	7	5	ND	2	83	.7	3	2	111	4.98	.129	2	30	1.40	31	.12	2	1.76	.02	.14	1	17
A 93076	1	291	11	66	1.0	24	22	1138	6.73	9	7	ND	3	81	.5	2	4	91	4.54	.121	3	25	1.24	40	.12	3	1.76	.04	.25	1	67
A 93077	1	1	2	1	.1	1	1	32	.18	2	5	ND	1	2	.2	2	2	2	.12	.003	2	1	.04	1	.01	2	.04	.01	.01	1	10
A 93078	1	276	7	71	.8	37	29	938	6.86	11	5	ND	1	96	.5	2	2	130	3.20	.112	2	31	1.62	63	.15	4	2.08	.11	.44	5	17
A 93079	1	249	7	79	.7	61	24	1153	5.85	114	5	ND	2	218	.5	2	2	121	5.70	.106	4	61	1.98	46	.11	2	2.47	.06	.36	1	16
A 93080	1	203	7	85	.5	28	19	1052	5.55	56	7	ND	2	293	.5	2	6	121	5.91	.116	7	40	2.33	13	.05	4	2.74	.02	.17	1	20
A 93081	1	281	7	100	.7	38	23	1278	6.65	15	5	ND	2	128	.5	2	6	192	3.99	.117	5	61	2.57	33	.15	4	2.77	.05	.23	1	28
A 93082	1	206	7	122	.5	16	25	1347	6.88	3	5	ND	3	149	.6	2	4	205	4.09	.140	6	19	2.70	26	.16	2	2.99	.05	.24	1	26
A 93083	1	221	6	90	.5	21	27	983	6.14	8	5	ND	2	84	.2	2	6	131	3.05	.147	5	21	1.75	43	.18	6	1.97	.06	.41	7	29
A 93084	1	169	4	67	.5	22	28	720	5.08	2	5	ND	2	110	.2	2	2	90	2.65	.147	5	22	1.40	35	.18	6	1.84	.07	.51	1	31
A 93085	1	176	4	68	.6	11	20	868	5.24	2	5	ND	2	120	.3	2	6	141	3.53	.125	3	8	1.71	108	.20	4	2.16	.07	.79	1	30
STANDARD C/AU-R	18	59	37	132	7.2	72	31	1003	3.94	42	20	8	40	53	18.4	16	20	61	.50	.098	41	59	.92	166	.09	37	1.93	.06	.13	12	487

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 FAIICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 17 1990 DATE REPORT MAILED: July 24/90 SIGNED BY C. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SH-90-1

Noramco Exploration Inc. PROJECT 2013 FILE # 90-2605

Page 2

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 93088	1	171	3	75	.3	16	19	782	5.41	2	5	ND	1	79	.2	2	6	106	1.85	.118	2	15	1.61	179	.21	2	2.47	.13	1.02	1	21
A 93089	1	197	5	57	.6	35	19	646	5.18	6	5	ND	2	63	.3	2	6	87	2.39	.111	2	32	1.14	116	.18	2	1.59	.11	.52	1	19
A 93090	1	126	3	52	.4	43	19	571	4.37	4	6	ND	2	79	.2	2	4	73	2.17	.112	2	33	1.16	98	.16	2	1.69	.09	.59	1	11
A 93091	1	103	4	55	.2	22	18	678	4.64	17	5	ND	2	107	.2	2	2	93	2.61	.114	3	16	1.38	56	.16	6	1.81	.05	.50	1	4
A 93092	1	162	4	58	.5	17	19	579	4.83	2	5	ND	2	52	.2	2	5	88	1.52	.121	3	13	1.26	63	.17	4	1.69	.06	.57	1	16
A 93093	1	267	4	62	.6	17	20	898	5.66	2	5	ND	2	112	.2	2	4	83	3.41	.115	2	13	.96	51	.14	2	1.69	.09	.52	2	18
A 93094	1	208	6	83	.4	19	22	826	5.37	26	5	ND	2	58	.2	2	4	111	2.21	.115	2	20	1.70	66	.15	2	1.96	.04	.59	1	19
A 93095	1	154	4	75	.2	21	22	862	5.20	7	5	ND	2	68	.2	2	3	112	2.33	.115	2	34	1.69	62	.16	15	1.97	.06	.46	1	10
A 93096	1	234	4	82	.5	17	21	711	5.71	3	5	ND	2	66	.2	2	6	134	1.58	.115	2	12	1.74	140	.16	7	2.05	.06	.98	1	12
A 93097	2	217	6	92	.5	16	22	1026	5.77	4	6	ND	2	259	.2	2	4	149	2.25	.115	2	13	2.18	147	.18	3	2.78	.06	1.10	1	16
A 93098	1	203	3	92	.4	35	22	869	5.54	7	6	ND	2	291	.2	2	4	113	2.40	.108	2	47	1.95	80	.15	3	2.29	.05	.80	1	18
A 93099	2	287	6	99	.7	40	24	805	5.99	4	5	ND	2	59	.3	2	20	93	2.64	.105	2	43	1.71	73	.14	2	2.26	.08	.79	11	74
A 93100	2	352	3	53	.6	24	27	764	5.75	2	5	ND	2	55	.2	2	17	42	3.51	.138	4	15	.67	18	.11	7	1.06	.05	.17	15	73
A 93101	2	373	5	101	.7	18	24	1149	6.73	80	5	ND	2	86	.4	2	16	92	3.97	.117	3	15	1.47	25	.11	3	1.65	.04	.42	42	50
A 93102	1	1440	4	775	3.9	21	25	781	5.34	2	5	ND	2	61	8.5	2	6	76	2.35	.138	3	24	1.14	36	.15	2	1.52	.04	.53	8	33
A 93103	1	316	4	144	.3	14	24	909	4.96	5	5	ND	1	97	.3	2	3	93	1.25	.145	3	8	1.51	94	.20	2	2.35	.07	1.15	1	17
A 93104	1	183	4	118	.2	19	24	1019	6.14	6	5	ND	2	75	.4	2	8	98	1.71	.144	3	13	1.68	110	.21	6	2.49	.05	1.38	1	29
A 93105	1	194	4	108	.2	18	24	1105	6.14	3	5	ND	2	66	.2	2	9	101	2.60	.152	3	20	1.49	59	.18	11	2.16	.07	.77	23	42
A 93106	1	301	4	69	.7	38	28	770	5.69	5	5	ND	2	48	.2	2	19	47	2.99	.128	.2	42	.89	19	.13	22	1.14	.05	.11	7	65
A 93107	1	212	5	96	.3	26	24	664	5.02	3	5	ND	2	78	.2	2	3	85	1.59	.150	4	34	1.40	64	.18	3	1.92	.06	.78	12	38
A 93108	1	344	7	97	.6	18	21	765	6.21	2	5	ND	2	28	.2	2	6	134	1.57	.125	2	16	1.67	91	.17	2	1.88	.05	.96	1	21
A 93109	2	379	8	93	.6	11	22	600	6.02	2	5	ND	3	20	.3	2	3	131	.75	.120	3	8	2.08	95	.14	2	2.00	.05	1.00	1	4
A 93110	1	357	4	102	.5	11	19	781	6.81	2	5	ND	2	24	.2	2	3	179	1.14	.136	2	7	2.58	142	.18	2	2.55	.05	1.17	1	6
A 93111	2	379	6	60	.6	9	22	483	5.19	2	5	ND	4	56	.2	2	2	92	1.76	.115	4	6	1.29	98	.14	2	1.64	.11	.71	1	1
A 93112	3	303	7	88	.5	15	26	572	6.45	2	5	ND	2	38	.2	2	4	139	1.36	.129	2	17	2.08	93	.15	2	2.00	.05	.66	1	2
A 93113	2	368	6	71	.7	13	23	614	6.25	6	5	ND	2	42	.2	2	5	120	2.01	.122	2	14	1.68	67	.15	4	1.93	.08	.77	1	28
A 93114	2	397	5	56	.7	13	27	597	6.55	6	5	ND	3	53	.3	2	2	88	2.29	.128	3	12	1.11	60	.13	2	1.47	.08	.60	1	7
A 93115	1	576	7	82	1.1	14	29	772	7.26	2	5	ND	3	44	.4	2	5	117	2.30	.122	2	12	1.73	91	.14	2	2.04	.07	.88	1	9
A 93116	2	380	7	96	.5	24	25	781	6.21	4	5	ND	1	80	.4	2	2	87	2.20	.097	2	21	1.43	99	.12	5	2.45	.15	.82	1	4
A 93117	3	372	6	82	.6	14	26	773	6.54	8	5	ND	2	60	.4	2	3	110	2.30	.122	2	12	1.73	67	.15	2	2.16	.10	.56	1	11
A 93118	1	403	6	84	.6	24	26	683	6.83	3	5	ND	1	25	.4	2	8	146	1.31	.123	2	39	2.12	128	.18	3	2.26	.06	1.00	1	20
A 93119	2	444	6	61	.7	24	34	689	6.83	4	5	ND	1	53	.2	2	13	74	1.99	.117	2	19	1.24	64	.13	2	1.95	.12	.50	1	40
A 93120	3	253	2	53	.3	43	21	609	4.42	3	5	ND	1	40	.2	2	9	71	1.85	.091	2	31	1.08	61	.16	5	1.30	.08	.24	1	30
A 93121	2	471	5	57	.8	43	36	561	7.26	6	5	ND	2	36	.2	2	13	75	1.85	.091	2	28	1.10	47	.14	5	1.21	.06	.30	104	37
A 93122	5	339	70	308	.6	31	28	763	5.80	7	5	ND	2	52	4.9	2	17	96	2.78	.106	2	32	1.49	42	.14	4	1.58	.05	.34	32	65
A 93123	2	245	64	186	.8	19	21	1168	5.17	69	5	ND	2	328	.8	3	3	85	5.87	.113	4	24	1.91	21	.05	4	1.64	.02	.22	1	16
STANDARD C/AU-R	18	57	38	132	7.2	72	29	1019	3.99	41	22	7	40	52	18.6	15	18	58	.51	.095	39	60	.92	182	.09	35	1.97	.06	.13	13	490

Noramco Exploration Inc. PROJECT 2013 FILE # 90-2605

Page 3

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	Tl %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 93124	1	454	5	88	.6	19	28	1050	6.33	7	5	ND	1	137	.6	2	4	133	3.64	.105	2	23	2.21	11	.12	5	2.76	.02	.06	1	35
A 93125	1	136	147	324	2.8	21	29	1579	6.26	61	8	ND	1	669	6.0	3	4	70	6.60	.084	3	19	2.59	19	.01	9	1.31	.01	.16	1	33
A 93126	1	64	16	116	.4	23	24	1508	5.98	98	5	ND	1	567	1.0	2	2	142	7.99	.016	3	32	3.40	27	.01	3	2.45	.01	.13	1	15
A 93127	8	114	207	76	.9	20	18	1538	4.55	2162	6	ND	2	540	.6	12	28	28	11.52	.056	4	6	3.76	22	.01	11	.45	.01	.12	1	477
A 93128	1	185	4	92	.7	18	25	934	5.31	16	5	ND	2	110	.4	2	138	114	3.36	.096	4	31	1.65	45	.10	3	1.73	.05	.18	20	849
A 93129	1	215	4	76	.4	21	28	795	5.08	12	5	ND	2	67	.4	2	11	86	2.80	.118	5	35	1.37	21	.12	3	1.53	.04	.10	1	46
A 93130	1	184	5	115	.2	20	26	1279	6.44	4	5	ND	3	127	.3	2	8	156	3.92	.117	6	44	2.48	25	.08	2	2.56	.02	.09	1	40
A 93131	1	260	4	127	.2	21	28	1427	6.74	29	5	ND	2	197	.7	2	4	149	4.95	.101	5	37	2.71	37	.01	8	1.94	.02	.07	1	17
A 93132	1	121	3	123	.1	51	29	1173	5.85	71	5	ND	1	328	.6	2	2	47	5.30	.074	2	53	3.42	39	.01	2	.87	.01	.10	1	16
A 93133	1	96	4	80	.1	39	28	1008	5.65	31	5	ND	1	361	.6	2	2	51	5.16	.068	3	43	3.26	82	.01	2	.86	.01	.11	1	7
A 93134	1	120	2	85	.1	24	30	1115	6.68	12	5	ND	1	228	.6	2	2	99	5.18	.075	3	58	3.12	96	.01	2	1.61	.02	.07	1	8
A 93135	1	117	2	79	.1	26	27	928	5.77	5	5	ND	1	176	.4	2	2	126	4.49	.074	3	73	2.63	39	.08	4	2.16	.03	.09	1	22
A 93136	1	127	2	74	.1	29	28	869	5.62	8	5	ND	1	159	.6	2	2	128	4.06	.076	3	77	2.52	49	.13	11	2.26	.04	.16	1	9
A 93137	1	87	2	163	.1	45	29	758	6.05	2	5	ND	1	129	2.3	2	2	144	3.66	.071	3	145	3.62	81	.11	3	2.96	.04	.23	1	1
A 93138	1	130	2	69	.1	34	24	605	4.30	7	5	ND	1	116	.5	2	2	99	3.44	.073	3	109	2.21	77	.14	3	2.11	.05	.26	1	4
A 93139	1	133	2	47	.1	28	19	510	3.38	7	5	ND	1	86	.3	2	2	84	2.06	.079	2	50	1.48	105	.19	7	1.68	.06	.34	1	5
A 93140	1	103	2	64	.1	38	24	844	4.73	8	5	ND	1	231	.4	2	2	110	4.40	.070	3	78	2.51	72	.11	4	1.94	.03	.22	1	6
A 93141	2	88	4	77	.2	41	23	681	4.76	3	5	ND	3	129	.6	2	2	119	3.03	.084	4	88	2.34	132	.16	5	2.27	.05	.33	1	3
A 93142	1	117	2	47	.1	36	21	513	3.49	4	5	ND	1	85	.2	2	2	85	2.64	.071	2	65	1.67	88	.16	5	1.63	.06	.27	1	5
A 93143	1	129	2	38	.1	72	19	435	2.86	7	5	ND	1	66	.2	2	3	70	2.10	.069	2	109	1.86	118	.15	3	1.71	.06	.33	1	1
A 93144	1	81	2	31	.1	82	17	403	2.45	6	5	ND	1	64	.2	2	3	55	2.26	.061	2	147	1.85	118	.13	3	1.71	.06	.33	1	5
A 93145	1	109	2	38	.1	63	21	464	3.23	5	5	ND	1	83	.2	2	2	78	2.82	.066	2	160	2.24	165	.17	9	1.97	.06	.51	1	1
A 93146	1	94	2	41	.1	56	19	496	3.22	8	5	ND	1	95	.3	2	2	76	2.91	.061	2	126	1.92	210	.18	3	1.96	.05	.69	1	3
A 93147	1	127	2	45	.1	61	21	526	3.50	10	5	ND	1	109	.4	3	2	82	2.80	.065	2	125	2.15	149	.12	5	1.85	.04	.43	1	5
A 93148	1	109	2	61	.1	58	24	646	4.25	12	5	ND	1	116	.2	2	2	98	3.50	.071	2	115	2.38	223	.15	5	2.23	.04	.57	1	7
A 93149	1	134	2	62	.1	45	24	633	4.21	8	5	ND	1	95	.4	2	3	105	3.22	.080	2	93	1.83	247	.20	7	2.13	.04	.56	1	4
A 93150	1	121	2	69	.2	48	24	809	4.77	8	5	ND	2	175	.3	2	2	115	3.78	.078	2	105	2.31	279	.15	5	2.33	.03	.65	1	10
A 93151	5	97	7	263	.2	35	20	893	5.04	45	5	ND	2	311	2.0	3	2	62	5.73	.096	3	28	1.99	83	.02	3	.75	.02	.15	1	20
A 93152	2	99	4	141	.1	27	22	813	4.94	49	5	ND	1	136	1.0	2	2	144	4.52	.095	3	41	1.71	127	.14	6	2.01	.04	.40	1	21
A 93153	2	140	19	129	.1	23	27	1007	5.50	2	5	ND	1	112	.6	2	2	159	4.79	.100	3	35	1.81	191	.21	2	2.54	.04	.66	1	15
A 93154	1	133	8	85	.2	13	23	731	4.09	5	5	ND	2	66	.3	2	5	103	3.23	.117	3	11	1.25	92	.16	2	1.75	.06	.24	1	41
A 93155	1	93	3	113	.1	20	17	854	4.54	3	5	ND	3	67	.5	2	101	3.89	.100	4	43	1.60	115	.16	2	2.26	.04	.40	1	10	
A 93156	1	18	2	105	.1	8	10	875	4.45	5	5	ND	4	74	.3	2	2	78	2.53	.107	6	12	1.37	75	.15	3	2.13	.04	.34	1	3
A 93157	1	17	2	79	.2	9	9	713	3.36	2	5	ND	3	116	.2	2	2	53	2.72	.103	5	14	1.10	43	.14	6	1.62	.04	.18	1	3
A 93158	1	32	2	84	.1	10	9	630	3.44	6	5	ND	3	88	.2	2	3	68	1.93	.104	5	14	1.21	43	.15	6	1.65	.05	.12	1	7
A 93159	1	27	4	83	.1	9	10	853	4.12	2	5	ND	3	114	.3	2	2	66	2.97	.106	11	16	1.32	23	.07	5	1.95	.04	.13	1	1
STANDARD C/AU-R	18	58	37	132	.1	68	31	955	3.74	43	18	6	36	51	18.1	16	20	55	.49	.087	37	55	.88	180	.09	33	1.84	.05	.13	11	543

Noramco Exploration Inc. PROJECT 2013 FILE # 90-2605

Page 4

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. Au** ppm	ppb
A 93160	19	19	4	81	.1	10	9	869	4.15	2	5	ND	2	175	.3	2	2	68	2.94	.098	9	16	1.30	71	.15	9	2.01	.04	.36	1	9
A 93161	1	3	5	94	.1	4	5	737	3.35	2	5	ND	3	119	.2	2	2	55	2.17	.121	14	6	1.00	81	.16	2	1.66	.06	.39	1	12
A 93162	1	4	8	93	.1	3	4	706	3.19	2	5	ND	4	111	.2	2	2	52	2.21	.125	14	5	.91	96	.17	2	1.57	.05	.50	1	11
A 93163	1	24	7	83	.1	4	6	769	3.46	6	5	ND	3	143	.2	2	2	45	2.36	.114	14	6	.93	41	.10	2	1.40	.04	.23	2	65
A 93164	1	14	2	81	.1	10	10	803	4.27	2	5	ND	2	142	.2	2	2	73	2.36	.105	9	18	1.37	102	.20	3	2.06	.05	.52	1	86
A 93165	1	22	5	100	.1	9	11	832	4.34	2	5	ND	2	204	.2	2	2	76	1.93	.104	10	16	1.30	215	.22	2	2.05	.05	.89	1	4
A 93166	1	16	3	79	.1	10	10	778	3.58	2	5	ND	1	173	.2	2	2	60	1.95	.102	8	17	1.24	148	.25	3	1.99	.05	1.02	1	4
A 93167	1	23	5	88	.1	9	10	797	3.80	2	5	ND	2	140	.2	2	2	56	2.49	.097	10	14	1.22	158	.18	5	2.00	.04	.80	1	5
A 93168	1	17	3	83	.1	10	10	711	3.59	2	5	ND	1	96	.2	2	2	62	1.51	.102	7	16	1.41	187	.27	3	2.19	.04	1.14	1	2
A 93169	1	16	5	90	.1	9	9	740	3.77	2	5	ND	1	114	.2	2	2	66	1.43	.101	7	16	1.46	149	.29	5	2.36	.05	1.30	1	2
A 93170	1	21	3	81	.1	9	10	705	3.40	4	5	ND	1	112	.2	2	2	63	1.55	.103	6	14	1.34	170	.27	2	2.07	.04	1.14	1	2
A 93171	1	41	3	80	.1	11	11	702	3.21	2	5	ND	1	86	.2	2	2	60	1.78	.092	6	18	1.33	190	.25	4	1.99	.04	.89	1	1
STANDARD C/AU-R	18	57	40	132	7.2	69	31	1012	3.96	37	18	7	37	53	18.3	15	18	56	.51	.089	37	59	.93	180	.09	34	1.96	.06	.14	13	496

SH-90-1

GEOCHEMICAL ANALYSIS CERTIFICATE

Noramco Exploration Inc. PROJECT 2013 SHAFT File # 90-3078
 900 - 999 W. Hastings St., Vancouver BC V6C 2W2 Submitted by: B. LEWIS

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	U	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm									
A 93174	1	17	20	80	.7	7	9	730	3.68	13	5	ND	1	98	.2	3	2	50	1.99	.06	8	23	1.13	149	.13	4	1.80	.05	.74	1	8
A 93179	1	22	12	87	1.8	9	10	647	3.48	56	5	ND	1	83	.2	2	2	60	1.90	.08	8	23	1.02	119	.11	2	1.46	.06	.50	1	4
A 93180	50	26	28	97	2.2	5	8	848	3.14	23	5	ND	2	134	.6	2	2	16	4.28	.01	11	11	.69	43	.01	5	.77	.02	.25	1	9
A 93181	3	10	22	65	.6	6	8	884	3.68	31	5	ND	2	136	.2	2	2	41	2.67	.05	7	15	1.08	117	.11	3	1.37	.04	.58	1	7
A 93182	5	21	12	61	.7	7	10	889	3.71	15	5	ND	1	154	.3	2	2	31	3.53	.02	7	18	.99	51	.05	4	1.09	.03	.45	1	5
A 93194	2	29	8	65	.4	7	9	943	3.91	15	5	ND	1	108	.3	4	3	48	2.29	.09	8	16	1.11	69	.11	5	1.57	.07	.56	1	10
A 93195	2	11	5	56	.3	5	8	1248	3.87	8	5	ND	2	201	.2	2	2	27	4.16	.01	10	12	1.01	96	.04	3	.84	.03	.37	1	4
A 93196	4	14	2	57	.3	6	9	1120	3.70	7	5	ND	2	160	.4	2	3	32	3.21	.05	10	14	.94	98	.07	5	1.08	.04	.47	1	7
A 93197	1	15	3	90	.2	6	9	839	3.43	12	5	ND	3	178	.2	2	2	20	3.01	.19	15	11	.94	170	.02	5	.77	.02	.35	1	4
A 93201	1	15	6	95	.1	4	9	839	3.95	3	5	ND	2	79	.2	2	2	50	2.15	.12	12	20	.93	165	.11	2	1.59	.05	.69	1	11
A 93202	2	19	4	74	.4	3	9	1082	3.67	36	5	ND	3	38	.7	2	2	14	4.00	.11	18	5	.10	47	.01	7	.64	.03	.28	1	8
A 93203	1	24	2	105	.3	9	10	876	3.95	3	5	ND	2	100	.2	4	2	55	2.41	.15	9	24	1.08	194	.14	4	1.79	.05	.75	2	10
A 93204	2	18	3	80	.2	9	10	714	3.31	11	5	ND	1	128	.2	3	2	53	1.77	.15	9	18	.96	159	.17	3	1.65	.06	.83	1	2
A 93207	1	12	5	103	.1	5	9	675	3.50	2	5	ND	1	85	.2	3	2	57	1.53	.18	9	15	1.16	202	.18	7	1.81	.06	.88	1	2
A 93215	1	12	203	73	1.5	3	8	911	3.53	27	5	ND	2	160	.2	2	4	40	2.73	.06	12	12	1.02	146	.09	5	1.29	.04	.55	1	21
STANDARD C/AU-R	18	62	37	133	7	69	32	1052	3.97	41	19	7	37	53	18.7	15	20	56	.51	.093	38	60	.87	180	.07	34	1.88	.07	.13	14	485

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: AUG 1 1990 DATE REPORT MAILED: Aug 8/90. SIGNED BY: D.JOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

APPENDIX V

INVOICES FOR DRILL HOLE SH 90-1

LEBER MINES LTD.
UNDERGROUND MINE DEVELOPMENT
DIAMOND DRILLING - SURFACE & UNDERGROUND

(604) 352-3064

Box 674 Nelson, V1L 5R4

Fax (604) 352-3013

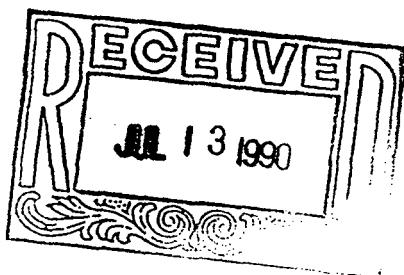
July 5, 1990

Noramco Mining Corp.
Suite 900 - 99 West Hastings Street
Vancouver, B.C.
V6C 2W2

STATEMENT

To roadbuilding and bulldozing, Gold Creek, Nelson, B.C. June 21 - 25, 1990.

D7 Dozer	30 Hours @ \$82.50	\$2,475.00
Mob & Demob		<u>152.00</u>
Total		<u>\$2627.00</u>



LONE RANGER DIAMOND DRILLING

NIRAMCO EXPLORATIONS INC.
#400 - 8449 G.W. HASTINGS ST.
VANCOUVER BC.

V6C 2W2

2160 VERNON ST., LUMBY, B.C. V0E 2G0
BOX 441, LUMBY, B.C. V0E 2G0
TELEPHONE: (604) 547-6839

JULY 3, 1970.

Send via courier.

INVOICE FOR WORK DONE ON SHARP PROPERTY - NELSON BC

DRAILS TIME, 1970

TIME SHEET	MOB	CASING	CASING	CORING	ACID		
		0-30' @ \$14.00	40-100' @ \$15.00	0-600' @ \$13.00	600-1000' @ \$14.00	1000-1500' @ \$15.00	TEST
1	\$1000.00						
2	✓						
3	30	10	124				
4				104			
5				78			
6				100			
7				150			
8				4 145		1	
9				91			
10				150		1	
11				14	116		
TOTAL	30	10	560	400	116	2	
TOTAL #	\$1000.00	\$420.00	\$150.00	\$7280.00	\$5600.00	\$1740.00	\$120100

TOTAL DUE # 16,310.00 ↙

PLEASE REMIT TO:

LONE RANGER DIAMOND DRILLING
Box 441
Lumby B.C.
V0E 2G0.

