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LOG NO:	NOV 05 1992	RD.
ACTION		
FILE NO:		
GEOCHEMICAL ASSESSMENT REPORT		

GEOCHEMICAL ASSESSMENT REPORT

on the

PHOENIX CLAIM GROUP

Greenwood Mining Division

Skeff Creek Area, B.C.

NTS: 82E/2E

LATITUDE: 49° 04'N

LONGITUDE: 118° 32'W

CLAIMS: ATTWOOD 5-10, ADD #1, TRIPOD FR., FLORENCE.

on behalf of

VIKON INTERNATIONAL RESOURCES INC.  
602 - 595 Howe St.  
Vancouver, B.C., V6C 2T5

by **GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

F. Marshall Smith, P.Eng.  
September 10, 1992

22,593

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## SUMMARY & CONCLUSIONS

The Phoenix Claim Group, owned by Vikon International Resources Inc., of Vancouver, B.C., consists of six contiguous two post claims, a 10-unit metric claim, which covers the area of the 1992 work, and two reverted crown grants. The holdings consist of 18 claims and units in the Greenwood Mining Division, B.C. The 1992 soil geochemical work was carried out only in ADD 1 claim.

The property is located approximately seven kilometres southeast of Greenwood, B.C., or 13 kilometres northwest of Grand Forks, B.C. Access to the property is by 4-wheel drive road south and east from the Phoenix Mine Area, or from Highway #3 up the Skeff Creek drainage.

The geology of the area has been mapped and compiled most recently by Church<sup>1</sup>, in 1986. Permo-Carboniferous limestones and argillites of the Attwood Group are in fault contact with the Triassic Eholt Formation. This regional thrust fault passes through the southern boundary of the claim group. Mineral deposits in the Phoenix - Boundary Mining camp are diverse in nature and include contact pyrometamorphic skarn deposits with base metal occurrences (e.g. Phoenix Mine), sulphide deposits carrying precious metal values (e.g. Lexington property) and epithermal vein mineralization associated with Tertiary faults (e.g. Tam O'Shanter property). The Phoenix Mine produced 27 million tons of ore with an average grade of 0.85% copper, 0.033 ounces per ton gold and 0.20 ounces per ton silver.

Previous field work, consisting of stream dredge samples carried out on the Phoenix Claim Group indicated the presence of gold from an unknown source in the Skeff Creek drainage. The 1992 work was designed to test the sidehills on a portion of the potential catchment for the gold bearing stream samples.

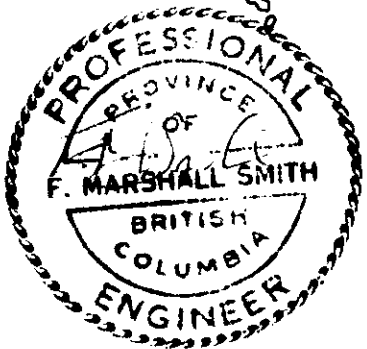
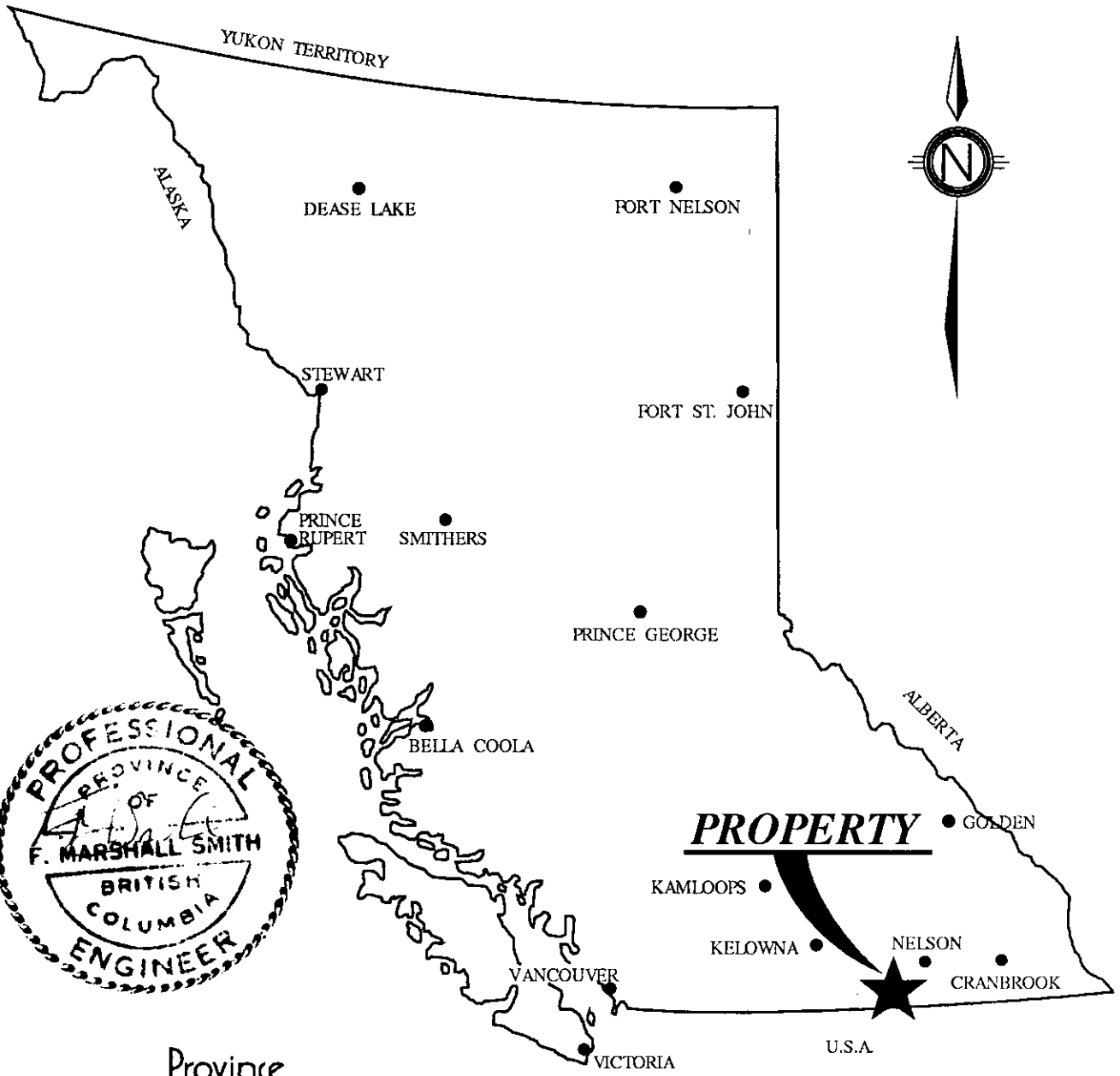
Field work which was carried out in 1991 consisted of three stream sediment suction samples taken on creeks draining the claim area. Gold values in these three samples ranged from 55 p.p.b. to 1160 p.p.b. in the +80 mesh fraction of the sample, and from 1060 p.p.b. to 2080 p.p.b. in the -80 mesh fraction.

Further work is recommended on the claim group. The remainder of the catchment along with suction dredge samples collected immediately after spring runoff and before the water wains should be collected on all small tributaries to attempt to give a focus for the source of the previously collected anomalous stream samples.

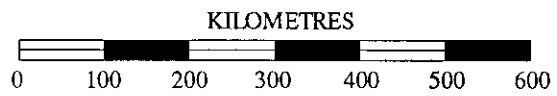
## INTRODUCTION

This report has been written on behalf of Vikon International Resources Inc. about field work consisting of soil sampling carried out on the Phoenix Claim Group. The claims are located approximately seven kilometres southeast of Greenwood, B.C., or alternatively, 13 kilometres northwest of Grand Forks, B.C. The field work was carried out from August 13 to 15, 1992.

A statement of costs incurred directly as a result of this 1992 work program is included. A previous report by Alex Burton, P.Eng. and Doug Symonds<sup>74</sup> have been used extensively in the construction of this report.



Province  
of  
British Columbia  
- CANADA -



F. Marshall Smith Consulting Inc.	
Vikon International Resources Inc.	
<b>LOCATION MAP</b>	
<b>PHOENIX CLAIM GROUP</b> Greenwood Mining Division, B.C.	
DATE: September, 1992	SCALE: AS SHOWN
DRAWN BY: FMS	FIGURE NO.: 1

## LOCATION & ACCESS

The Phoenix Claim Group is located approximately seven kilometres southeast of Greenwood, B.C., or alternatively, thirteen kilometres northwest of Grand Forks, B.C. Access to the property is by four-wheel drive road south and east from the Phoenix Mine Area, or from Highway #3 up the Skeff Creek drainage.

Field work carried out from August 13 to 15 including driving from and to Vancouver. The weather during the days of sampling was hot (32° C) with clear skies. The roads in the area gave easy 30 minute access from the motel. Start and ends of lines were carefully located against roads and other topographic features to assist in drafting the final map.

## CLAIM INFORMATION

The Phoenix Claim Group, owned by Vikon International Resources Inc., of Vancouver, B.C., consists of six contiguous two post claims, a ten-unit metric claim, on which all work was done, and two reverted crown grants, totaling eighteen claims and units in the Greenwood Mining Division, B.C. The claims were grouped on Dec. 31, 1987 as the Attwood Supplemental Group No. 1822

The ADD #1 claim consists of ten metric units, with record number 5012 and record date of August 27. All work in 1992 was done on this claim.

## HISTORY & PREVIOUS WORK

Mining exploration and development in the Boundary district goes back to the late 1800's. Important mineral deposits, including those at the Phoenix, Motherlode and Deadwood camps include the following:

- the Phoenix Mine; four kilometres north of the Phoenix Claim Group; a copper skarn with accessory gold and silver values; produced 27 million tons of ore grading 0.85% copper, 0.033 ounces per ton gold and 0.20 ounces per ton silver.
- the Jewel Mine; eight kilometres northeast of Greenwood; reportedly produced 66,500 tons of ore from a Tertiary quartz vein, grading 0.32 ounces per ton gold and 2.0 ounces per ton silver.
- the Providence Mine; two kilometres northeast of Greenwood; a high-grade operation that produced a total of 11,451 tons of ore grading 0.51 ounces per ton gold and 119 ounces per ton silver.
- the Golden Crown Claim; one kilometre north of the Phoenix Claim Group; produced 2,742 tons of ore grading 0.45 ounces per ton gold, 0.82 ounces per ton silver and 1.53% copper.
- the Winnipeg Claim (part of the Phoenix Mine); one kilometre north of the Phoenix Claim Group; produced 58,722 tons of ore grading 0.20 ounces per ton gold, 0.62 ounces per ton silver and 0.16% copper.

- the Athelstan-Jackpot Property; adjoins the Phoenix Claim Group to the north; produced 18,451 tons of ore containing 5,053 oz. of gold, 6,001 oz. of silver and 111,986 pounds of copper.

Three major smelters were built at Grand Forks, Greenwood and Boundary Falls in the 1890's. These smelters accepted gold-bearing ore for custom milling.

Previous work on the Phoenix Claim Group consisted of various geochemical and geophysical surveys on grids covering portions of the property. The most recent work, carried out in 1989, was not definitive in "establishing a correlative anomalous area" as "primarily localized individual anomalous areas were prevalent"<sup>2</sup>. In the area of a "1987 panned sample of 0.44 ounces per ton gold from Skeff Creek"<sup>2</sup>, localized arsenic anomalies were indicated. Anomalous values of up to 109 p.p.m. arsenic "could reflect gold values associated with arsenopyrite in an indicated northwesterly-trending structure"<sup>2</sup>. Visual observation of geochemical data from 1987 and 1989 surveys indicated a strong positive correlation between gold and bismuth values in the soils. This indication of the presence of tellurides is an important factor in the search for precious metal enriched skarn deposits.<sup>3</sup>

## GEOLOGY

Dr. H.W. Little of the Geological Survey of Canada mapped this area between 1963 and 1965. This map was published at a scale of 1:50,000 in 1979, as Paper 79-29. Dr. B.N. Church, of the British Columbia Ministry of Energy, Mines & Petroleum Resources published Paper 1986-2, entitled "Geological Setting & Mineralization in the Mount Attwood - Phoenix Area of the Greenwood Mining Camp" at a scale of 1:25,000.

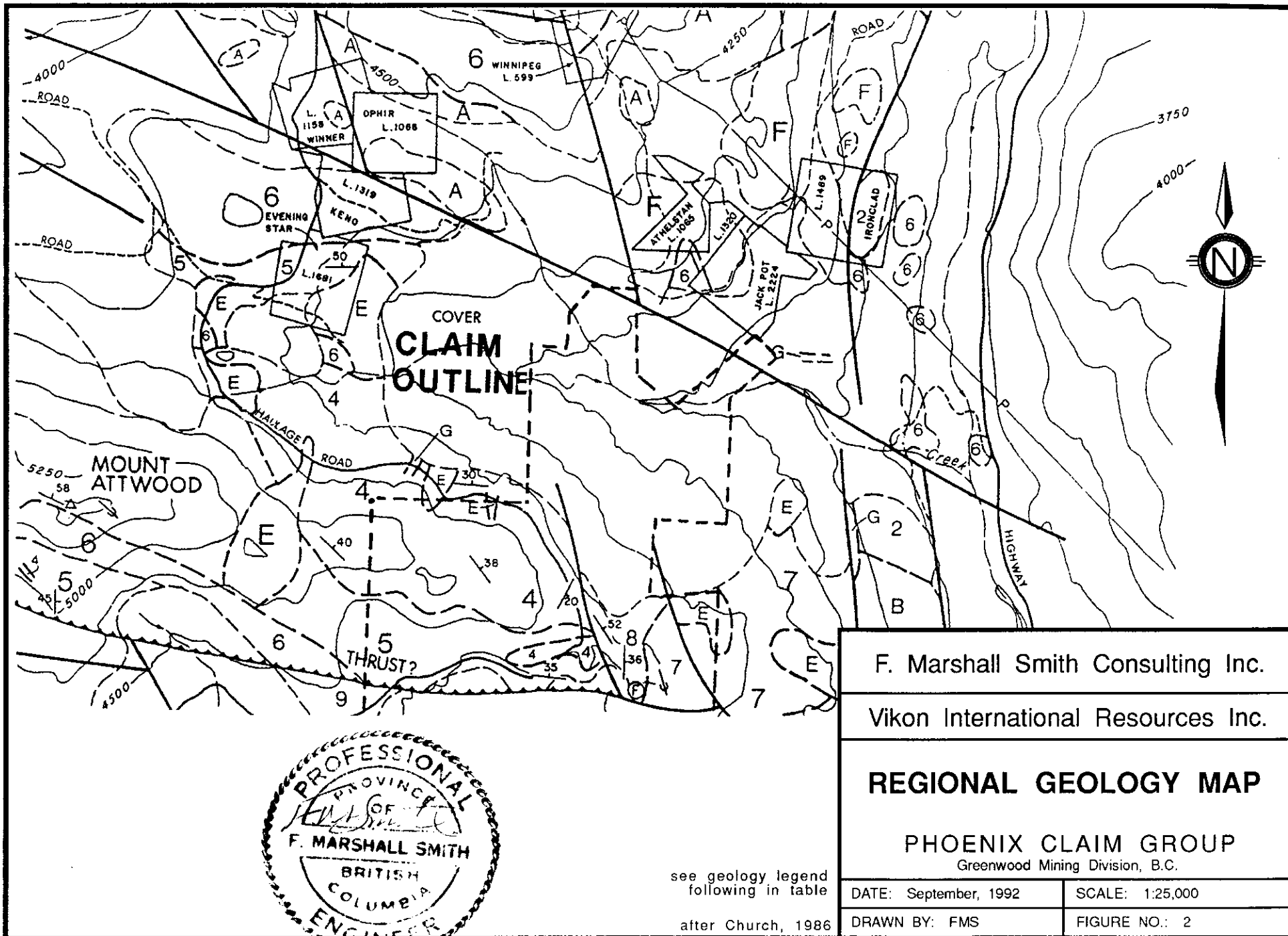
These two maps are close, but do differ in detail. There is considerable variation between the maps on the Phoenix Claim Group. There is difficulty in ascribing a name or age to rocks without diagnostic fossils. Similar-appearing but different ages are known for sharpstone conglomerates, argillites, limestones and volcanics. For instance, within the area of the Phoenix Claim Group, Church has shown Cretaceous granodiorites and Tertiary diorite, monzodiorite and pulaskite in the same general area where Little shows Marron Formation (Eocene Tertiary intrusive dykes) [see Figure 2].

In the Carboniferous or Permian package of mixed sediments with and without greenstones, Church shows the Attwood Group in three portions, consisting of black shale, limestone or volcanics respectively. Little shows the Attwood Group to consist only of two portions, consisting of limestone and argillites respectively, without mentioning any volcanics.

Church shows the Triassic Brooklyn Group to consist of the volcanoclastic Eholt Formation, the limestone and the sharpstone conglomerate. On Little's map, the volcanoclastic areas are labeled Jurassic(?) greenstone. The limestones are labeled by Little as the Brooklyn Formation (Lower Triassic), which matches Church. The sharpstone conglomerate of Church is labeled by Little as Carboniferous or Permian Knob Hill Group (sediments and volcanics).

Ultrabasic rocks in the map area were dated as Jurassic by Little and Cretaceous by Church.

These differences illustrate the difficulty in assigning ages to similar-looking rock units. Economically, this is important, because it is most commonly believed that the limestone and sharpstone conglomerates associated with mineralization in the Phoenix Camp are Brooklyn



F. Marshall Smith Consulting Inc.

Vikon International Resources Inc.

## REGIONAL GEOLOGY MAP

PHOENIX CLAIM GROUP  
Greenwood Mining Division, B.C.

see geology legend  
following in table  
after Church, 1986

DATE: September, 1992

SCALE: 1:25,000

DRAWN BY: FMS

FIGURE NO.: 2

Group. It is possible that the sharpstone conglomerates are found all the way from the Pre-Carboniferous basement complex to Jurassic time.

## GEOCHEMISTRY

A total of fifty-four (54) sidehill (contour) soil samples were collected from fifteen to thirty centimetre depth along two lines. The samples were collected to attempt to locate the potential southern subcrop source of gold anomalies located in 1991 within the northern portion of the claim. Analytical results follow in Appendix I for both the 1992 work and the gold analysis for 1991.

The samples consist of light brown sandy to silty colluvial material with 0 to <5% organic (B) layer materials. Samples were collected by digging a small pit with a prospector's grub hoe using an altimeter to control elevation and hip chain to control distance between samples. The sample lines were controlled as to general location by chaining to local features noted on the enclosed Figure 3.

All the samples were sent to Chemex Labs Ltd. where the material was dried, screened to -80 mesh with a ten-gram portion fire assayed with Atomic Absorption finish and reported in parts per billion. This sort of process will only locate fine gold particulates in the side hill. The sensitivity of this process is to about five parts per billion. Anomalies of interest should exceed 125 parts per billion and significant anomalies usually exceed 1025 parts per billion.

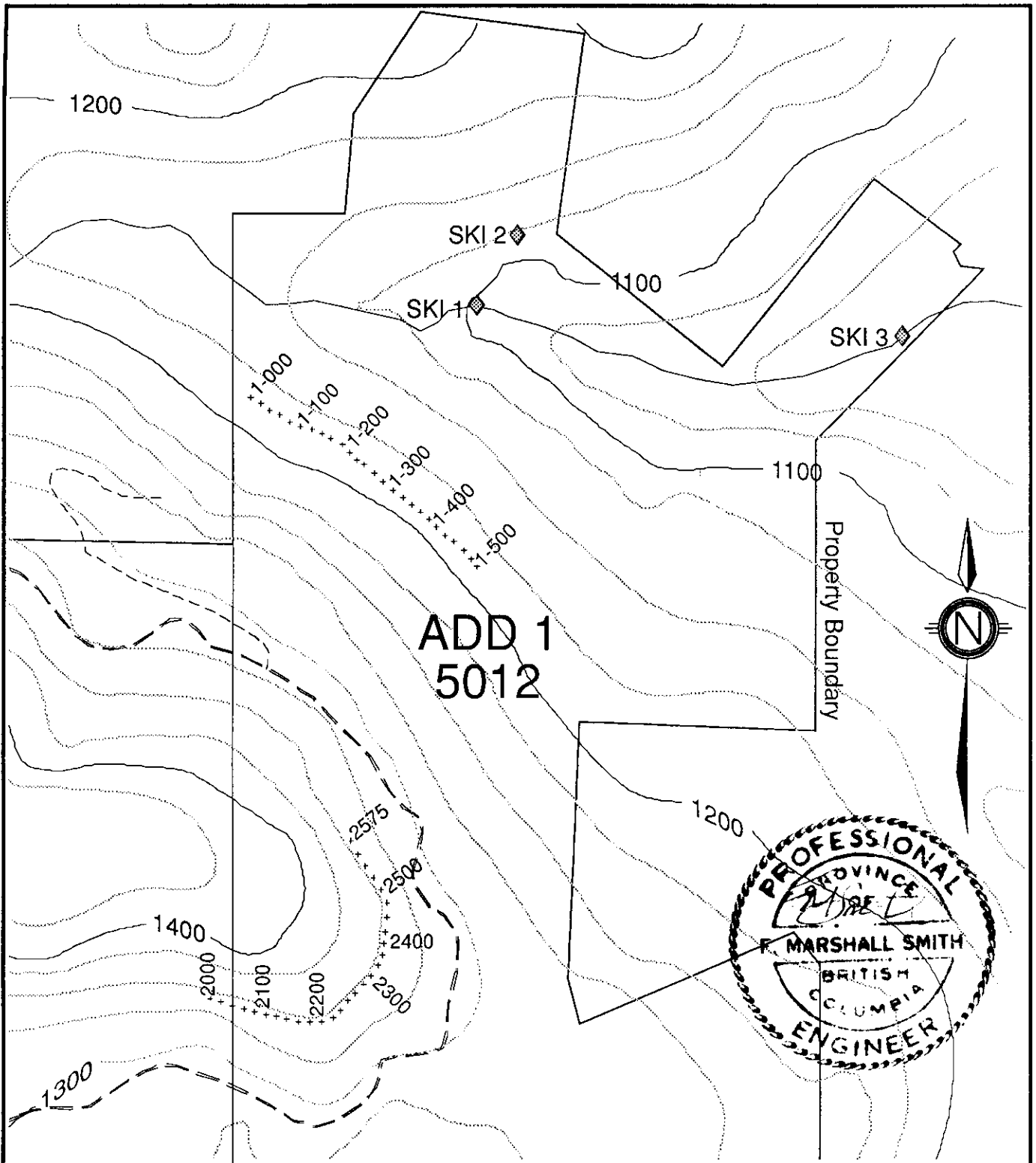
None of the values exceeded 25 parts per billion. This is considered a "background" value and should not be considered at all significant. The source of the gold collected in dredging to the north of the soil samples and downhill must be one or more of;

- a. derived from source further downhill closer to the sample or,
- b. derived from coarse gold only mineralization of a type as yet unknown in the district, or
- c. derived from a source on the north side of the sample catchment area for the dredge samples collected in 1991.

## RECOMMENDATIONS

Further work is recommended on the property, including more stream suction sampling, soil sampling close to and both north and south of the previous dredge sampling and prospecting.





+ 1-440, 2400 Sample Locations  
 ◆ 1991 Pan Sample Locations  
 All assay values reported in Appendix I

F. Marshall Smith Consulting Inc.

Vikon International Resources Inc.

**SAMPLE LOCATION MAP**  
**PHOENIX CLAIM GROUP**

Greenwood Mining Division, B.C.

DATE: September, 1992

SCALE: 1:10,000

DRAWN BY: JD

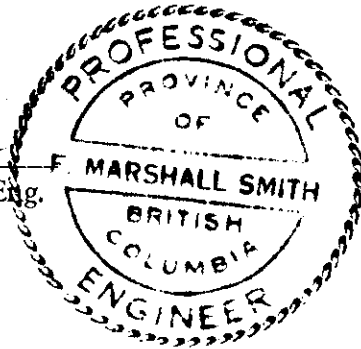
FIGURE NO.: 3

## COST STATEMENT

The following costs were incurred as a result of field work and relevant office work on the property:

John Devlin, technologist 2.5 days @ \$250+GST -----	668.75
Aug 13 to 15, 1992	
Four by four rental 3 days @ \$50/day + GST -----	160.50
Gas, food, lodging Aug 13 to 15 -----	172.86
Consumables, flagging, thread, bags etc -----	22.56
Chemex labs assays of 54 samples -----	375.57
Drafting, report preparation, copies -----	<u>802.50</u>
TOTAL -----	2,202.74


*F. Marshall Smith*  
 F. Marshall Smith, P.Eng.  
 September 10, 1992

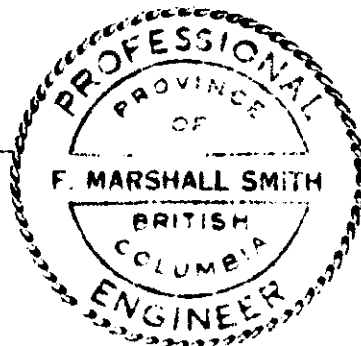


## CERTIFICATE OF QUALIFICATIONS

I, F. Marshall Smith, do hereby certify that:

1. I am a consulting geologist and geochemist with offices at 6580 Mayflower Drive, Richmond, British Columbia, Canada.
2. I am a graduate at the University of Toronto with a degree of B.Sc., Honors Geology.
3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession continuously since 1967.
5. This report is based on my supervision of the field program carried out on the Phoenix Claim Group and my direction of the efforts of Mr. John Devlin whose work is well known to the writer.
6. I have no interest in the property or shares of Vikon International Resources Inc., in any property near or in the mining district or in any related companies, nor do I expect, at any time, to receive any.

  
F. Marshall Smith, P.Eng.  
September 10, 1992



APPENDIX I

Analytical Certificate A9219808, Chemix Labs Ltd.

Table of 1991 gold analytical results



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

SEARCHLIGHT CONSULTANTS INC.

6580 MAYFLOWER DR.  
RICHMOND, BC  
V7C 3X6

Project :  
Comments:

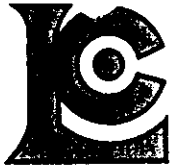
Page Number :1  
Total Pages :2  
Certificate Date: 23-AUG-92  
Invoice No. :19219808  
P.O. Number :  
Account :DEU

## CERTIFICATE OF ANALYSIS

### A9219808

SAMPLE	PREP CODE	Au-AA ppb										
1-000	201	--										
1-020	201	--	< 5									
1-040	201	--	< 5									
1-060	201	--	< 5									
1-080	201	--	20									
1-100	201	--	< 5									
1-120	201	--	< 5									
1-140	201	--	< 5									
1-160	201	--	15									
1-180	201	--	< 5									
1-200	201	--	25									
1-220	201	--	5									
1-240	201	--	< 5									
1-260	201	--	< 5									
1-280	201	--	5									
1-300	201	--	< 5									
1-320	201	--	< 5									
1-340	201	--	5									
1-360	201	--	25									
1-380	201	--	5									
1-400	201	--	5									
1-420	201	--	20									
1-440	201	--	5									
1-460	201	--	5									
1-480	201	--	< 5									
1-500	201	--	< 5									
2000	201	--	< 5									
2020	201	--	< 5									
2040	201	--	< 5									
2060	201	--	< 5									
2080	201	--	< 5									
2100	201	--	10									
2120	201	--	< 5									
2140	201	--	< 5									
2160	201	--	< 5									
2180	201	--	< 5									
2200	201	--	< 5									
2220	201	--	< 5									
2240	201	--	5									
2260	201	--	< 5									

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

SEARCHLIGHT CONSULTANTS INC.

6580 MAYFLOWER DR.  
RICHMOND, BC  
V7C 3X6

Project :  
Comments:

Page Number : 2  
Total Pages : 2  
Certificate Date: 23-AUG-92  
Invoice No. : 19219808  
P.O. Number :  
Account : DEU

## CERTIFICATE OF ANALYSIS A9219808

SAMPLE	PREP CODE	Au-AA ppb										
2280	201 --	< 5										
2300	201 --	< 5										
2320	201 --	< 5										
2340	201 --	< 5										
2360	201 --	5										
2380	201 --	< 5										
2400	201 --	5										
2425	201 --	< 5										
2450	201 --	< 5										
2475	201 --	< 5										
2500	201 --	15										
2525	201 --	< 5										
2550	201 --	< 5										
2575	201 --	5										

CERTIFICATION:

*Hart Bechler*

1991 SUCTION DREDGE STREAM SAMPLES

Sample Number	Gold ppb -80 mesh	Gold ppb +80 mesh
<b>SK-1</b>	<b>1060</b>	<b>55</b>
<b>SK-2</b>	<b>2080</b>	<b>1160</b>
<b>SK-3</b>	<b>1390</b>	<b>250</b>

## APPENDIX II

## References

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