

K-SHELL - CROWN MTN. NORTH 78(10)A.

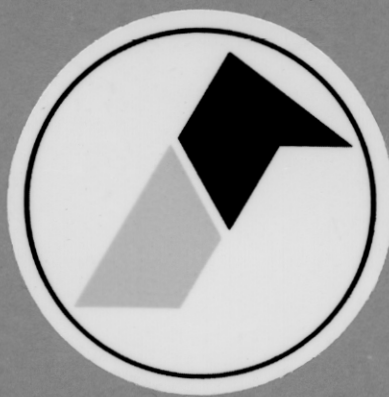
S.C.R.L. / C.N.R.L.

REPORT ON GEODETIC SURVEY

CROWN MTN. NORTH

Group #31

1978/1979



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

00 394 OPEN FILE

REPORT ON GEODETIC SURVEY

WORK DONE FROM JUNE 27, 1978 TO JANUARY 31, 1979

CROWN MTN. NORTH

KOOTENAY LAND DISTRICT

B.C. COAL LICENCES

NOS. 308, 310, 312, 365, 366, 367, 371, 372, 408

GROUP #31

HELD BY SHELL CANADA RESOURCES LIMITED

OPERATED BY CROWS NEST RESOURCES LIMITED

NTS 82G/15

LAT.  $49^{\circ} 48'$  N, LONG.  $114^{\circ} 44'$  W

BY

SHELL CANADA RESOURCES LIMITED - SURVEYING DEPARTMENT  
GENERAL SURVEY CONTRACTOR

NORTHWEST SURVEY CORPORATION (YUKON) LIMITED  
SUBCONTRACTOR ON PHOTOGRAMMETRIC MAPPING

1979-04-26

**OPEN FILE**

T A B L E O F C O N T E N T

LAND MAP AND TENURE STANDING SCALE 1:50 000

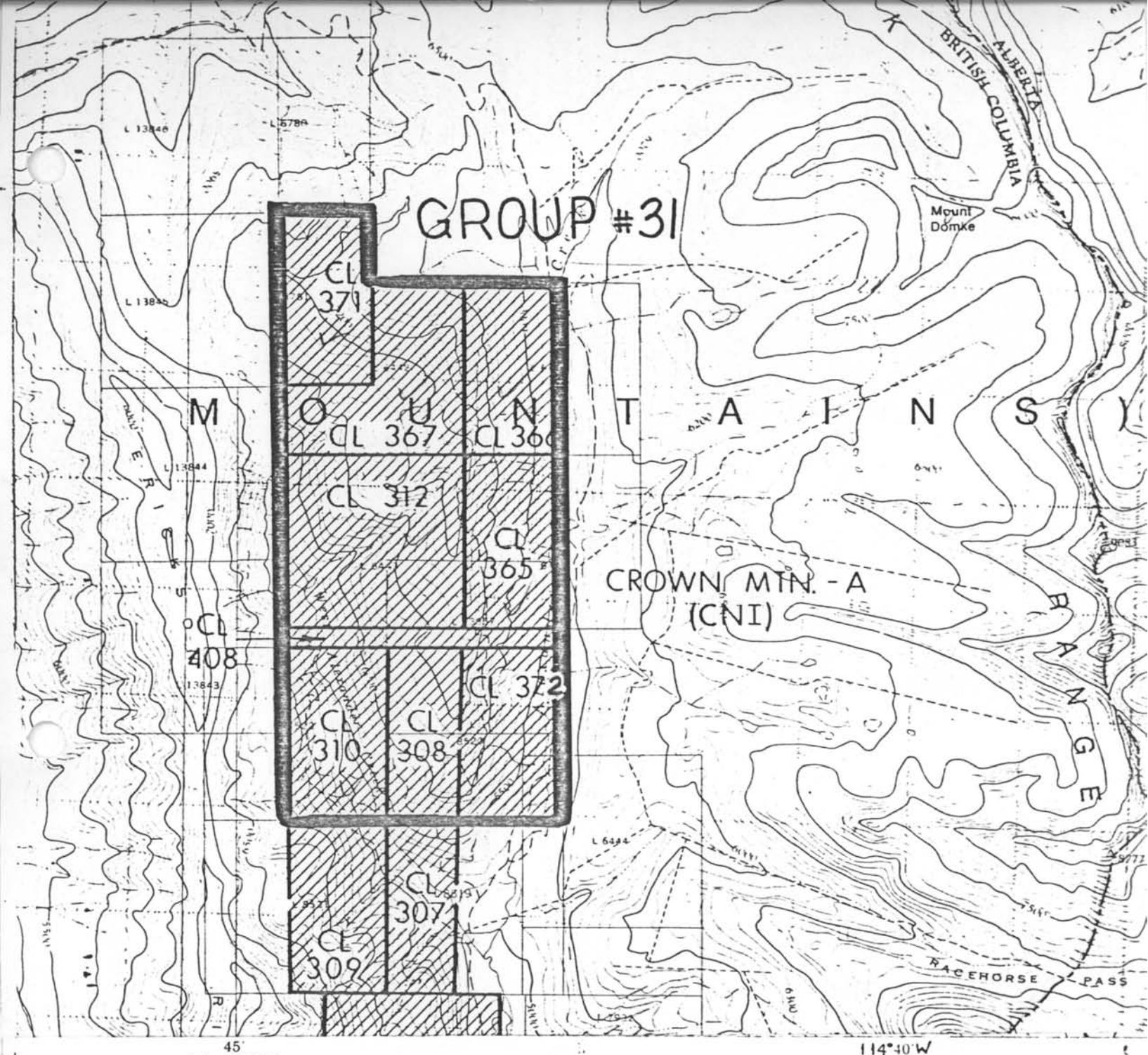
REPORTS ON GEODETIC SURVEY

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED  
FERNIE - SPARWOOD, B.C.

PHOTOGRAMMETRIC MAPPING PROJECT (1978)  
FERNIE - SPARWOOD AREA, S.E. B.C.

TITLE PAGE, TABLE OF CONTENTS, COST ALLOCATIONS AND REFERENCE ONLY

APPLICATION TO EXTEND TERM OF LICENCE (COST STATEMENT)  
B.C. COAL LICENCES 308, 310, 312, 365, 366, 367, 371, 372, 408  
GROUP #31



45' Joins 82 G/10

114°40'W

B.C. COAL LICENSES NUMBERS	LEGAL DESCRIPTION	ISSUANCE YEAR	AREA		GROUP # 31
			Ha	Ac	
308	W1/2 L 8520	1975	130	320	BlockL Crown Mountain Project: Crown Mtn. B.C. LAND DISTRICT: Kootenay Licencee: Shell Canada Resources Ltd. Operator: Crows Nest Resources Ltd. Anniversary Date:
310	E1/2 L 8522	1975	130	320	
312	L 6443	1975	259	640	
365	W1/2 L 6441	1974	130	320	
366	L 6422	1974	130	320	
367	E1/2 L 6781	1974	182	449	
371	E1/2 L 8520	1974	130	320	
372	E1/2 L 8520	1974	130	320	
408	UNSURVEYED	1974	44	108	
<b>TOTAL</b>	<b>Group #31</b>		<b>1,265</b>	<b>3,117</b>	
		\$	\$/Ha	\$/Ac	
Work Credit at February 1, 1978		41,830	29.99	12.17	
1978 - 1979 work requirement		15,585	11.12	4.53	NTS: 82 G/15
1978 - 1979 work done		11,776	8.44	3.43	MAP SCALE: 1:50,000
Work Credit February 1, 1979		38,021	27.26	11.06	
1979 - 1980 Rental Paid					

REPORTS ON GEODETIC SURVEY

WORK DONE FROM JUNE 27, 1978 TO JANUARY 31, 1979

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED

FERNIE - SPARWOOD, BRITISH COLUMBIA

PHOTOGRAMMETRIC MAPPING PROJECT (1978)

FERNIE - SPARWOOD AREA - S.E. BRITISH COLUMBIA

COVERING ALL COAL LAND IN S.E. BRITISH COLUMBIA

HELD BY SHELL CANADA RESOURCES LIMITED

OPERATED BY CROWS NEST RESOURCES LIMITED

MORRISSEY FREEHOLD

B.C. COAL LICENCES

264 TO 313 INCL., 365 TO 373 INCL., 408, 412 TO 414 INCL.

490 TO 495 INCL., 588 TO 601, 1299 - 1302 INCL., 4080 TO 4089 INCL., 4090, 4092

KOOTENAY LAND DISTRICT, B.C.

NTS 82G AND 82J

LAT.  $49^{\circ} 05'$ ; TO  $50^{\circ} 10'$  N, LONG.  $114^{\circ} 30'$  TO  $115^{\circ} 10'$  W

BY

SHELL CANADA RESOURCES LIMITED - SURVEYING DEPARTMENT  
GENERAL SURVEY CONTRACTOR

NORTHWEST SURVEY CORPORATION (YUKON) LIMITED  
SUBCONTRACTOR ON PHOTOGRAMMETRIC MAPPING

1979-04-26

T A B L E O F C O N T E N T

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED  
FERNIE - SPARWOOD AREA, B.C.; SCRL 1979

PHOTOGRAMMETRIC MAPPING PROJECT (1978)  
FERNIE - SPARWOOD AREA, S.E. B.C.; SCRL 1979  
INCLUDING ATTACHMENTS

SCHEDULE A  
SCRL ON BEHALF OF CNRL  
REQUEST FOR PROPOSALS FOR AERIAL PHOTOGRAPHY, AEROTRIANGULATION  
AND TOPOGRAPHIC MAPPING IN THE CROWNEST PASS - FERNIE AREAS  
OF BRITISH COLUMBIA  
INCLUDING ATTACHMENTS  
FIVE 1:50 000 MAPS OUTLINING AREAS OF CONCERN

SCHEDULE B  
GENERAL SPECIFICATION FOR AERIAL PHOTOGRAPHY

SOUTHEASTERN B.C.  
INDEX MAP  
AERIAL PHOTOGRAPHS, GROUND CONTROL SURVEY, PHOTOGRAMMETRIC MAPS  
SCALE 1:100 000

COST STATEMENT  
AND ALLOCATIONS TO PROJECTS AND GROUPS OF LICENCES

CROWS NEST RESOURCES LIMITED - EXPLORATION  
SHELL CANADA RESOURCES LIMITED - SURVEYING

GROUND CONTROL SURVEY AND PHOTOGRAMMETRIC MAPPING  
SOUTHEASTERN BRITISH COLUMBIA

DISTRIBUTION OF AFE Z4670: UNDIVIDED COSTS  
TO PROJECTS AND GROUPS OF LICENCES  
ON THE BASIS OF HOLDING ACREAGES

<u>*HOLDINGS/PROJECTS</u>	<u>AFE</u>	<u>ACREAGE</u>	<u>%</u>	<u>\$ COSTS</u>
NORTH BLOCK=GROUP "NA"	4853A	7,840	8.0	29,440
CENTRAL BLOCK NORTH	4851J	10,264	10.5	38,640
HORESESHOE RIDGE	4851E	6,532	6.7	24,656
LINE CREEK J.V.	4851D	1,854	1.9	6,992
(Central Block Total)		(18,650)	(19.4)	(71,392)
(Group "CA")		( 6,088)	( 6.2)	(22,816)
(Group "CB")		( 8,082)	( 8.6)	(31,648)
(Group "CS")		( 4,480)	( 4.6)	(16,928)
CROWN MOUNTAIN TOTAL	4851Z	6,317	6.5	23,920
(Group #31)		( 3,117)	( 3.2)	(11,776)
(Group #32)		( 3,200)	( 3.3)	(12,144)
CORBIN=GROUP #6	4851Q	1,760	1.8	6,629
(Coal Mountain)		( 640)	( 0.7)	( 2,578)
(Tent Mountain)		( 1,120)	( 1.1)	( 4,051)
MORRISSEY FREEHOLD	4851U	43,200	44.1	162,288
LODGEPOLE=GROUP #104	4851S	3,345	3.4	12,512
LILLYBURT	4851R	6,122	6.3	23,184
HARVEY CREEK TOTAL	4851T	7,307	7.5	27,600
(Group #105 Renewal)		2,992	( 3.1)	11,408
(Remainder)		4,315	( 4.4)	16,192
CABIN CREEK=Group #106	4851V	3,200	3.3	12,144
<u>TOTAL</u>	<u>Z4670</u>	<u>97,741</u>	<u>100.0</u>	<u>368,000</u>

= 39,556ha

\$3.77/acre

\*All B.C. Coal Licences except Morrissey Freehold

\$9.30/ha

1979-01-31

F. Martonhegyi  
Exploration

D. Poulson  
Surveying

H. Hofer  
Finance Analyst

J. J. Crabb  
Manager - Exploration

REFERENCE

THESE REPORTS COVER IN ONE UNIT ALL B.C. COAL LICENCES IN SOUTH-  
EASTERN BRITISH COLUMBIA

HELD BY SHELL CANADA RESOURCES LIMITED  
OPERATED BY CROWS NEST RESOURCES LIMITED

TWO SETS WERE FILED WITH

ADMINISTRATOR FOR COAL  
MINISTRY OF ENERGY, MINES & PETROLEUM RESOURCES  
GOVERNMENT OF BRITISH COLUMBIA  
VICTORIA, B.C.

ON APRIL 30, 1979, TO WHOM FURTHER COPIES WILL BE SUPPLIED AT  
REQUEST.

CROWS NEST RESOURCES LIMITED





Group # 31

DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
Coal Act (Sec. 19)

APPLICATION TO EXTEND TERM OF LICENCE

1. I, Gordon A. Schwartz agent for Shell Canada Resources Ltd.  
(Name) (Name)  
Box 100 Box 100  
(Address) (Address)  
Calgary, Alberta T2P 2H5 Calgary, Alberta T2P 2H5

Valid FMC No. 171 929

hereby apply to the Minister to extend the term of Coal Licences No(s) 308, 310, 312, 365,  
366, 367, 371, 372, 408  
for a further period of one year.

2. I have performed, or caused to be performed, during the period February 1, 1978 to  
January 30, 19 79, work to the value of at least \$ 11,776  
on the location of coal licences as follows:

CATEGORY OF WORK

	Licence No(s).	Apportioned Cost
Geological mapping - - - -		NIL
Surveys: Geophysical - - - -		NIL
Geochemical - - - -		NIL
Other Geodetic - - - -	{ 308, 310, 312, 365, 366, 367	\$ 11,776
Road construction - - - -	{ 371, 372, 408	NIL
Surface work - - - -		NIL
Underground work - - - -		NIL
Drilling - - - -		NIL
Logging, sampling, and testing -		NIL
Reclamation - - - -		NIL
Other work (specify) - - - -		NIL

3. I wish to apply \$ 11,776 of this value of work on Coal Licence(s)\* 308, 310, 312  
365, 366, 367, 371, 372, 408

N.A. 4. I wish to pay cash in lieu of work in the amount of \$ \_\_\_\_\_ on Coal Licence(s)  
No(s) \_\_\_\_\_

N.A. 5. I wish to apply \$ \_\_\_\_\_ of this value of work to claim a refund of cash in lieu of work in  
the amount of \$ \_\_\_\_\_ which was paid to extend the term of Coal Licence(s) No(s) \_\_\_\_\_  
from \_\_\_\_\_  
to \_\_\_\_\_, 19 \_\_\_\_ Mining Receipt No. \_\_\_\_\_  
for prior payment of cash in lieu of work is attached for adjustment.

6. The work performed on the location(s) is detailed in the attached report entitled \_\_\_\_\_  
Geodetic Ground control survey and photogrammetric mapping - Crown Mountain  
area, Kootenay Land District, B.C. - in preparation and will be submitted in 90 days.

1979 - 01 - 30  
(Date)

H. A. Schwartz  
(Signature and position)  
LANDMAN

\* Applications as group licenses may be filed to apportion costs on a maximum of 10 licenses.

(FORMS TO BE SUBMITTED IN DUPLICATE)

FOR DEPARTMENTAL USE ONLY

Value of work reported \$ \_\_\_\_\_ Value of work applied on licences \$ \_\_\_\_\_  
Value of work approved \$ \_\_\_\_\_ Value of credit remaining \$ \_\_\_\_\_

Work performed. Yes  No

The program of operations detailed hereunder was carried out during the period from February 1, 1978 to January 31, 1979. Total costs are \$ 11,776, an average of \$ 3.78 per acre, or \$9.34 per hectare

GEOLOGICAL MAPPING Yes  No  Cost \$ NIL  
Area (Acres) Scale Time  
Reconnaissance \_\_\_\_\_  
Detail: Surface \_\_\_\_\_  
Underground \_\_\_\_\_  
Other (specify) \_\_\_\_\_

GEOPHYSICAL OR GEOCHEMICAL SURVEYS Yes  No  Cost \$ NIL  
Method \_\_\_\_\_ Line miles \_\_\_\_\_

OTHER SURVEYS Yes  No  Cost \$ 11,776  
Grid \_\_\_\_\_ Topographic Geodetic Ground control survey and photogrammetric mapping

ROAD CONSTRUCTION Yes  No  Cost \$ NIL  
Length: On Licences \_\_\_\_\_ Access (off licences) \_\_\_\_\_

SURFACE WORK Yes  No  Cost \$ NIL  
Length License Number(s)  
Trenching \_\_\_\_\_  
Seam tracing \_\_\_\_\_  
Crosscutting \_\_\_\_\_  
Other \_\_\_\_\_

UNDERGROUND WORK Yes  No  Cost \$ NIL  
Test adits: Number \_\_\_\_\_ Average length \_\_\_\_\_ Total footage \_\_\_\_\_  
Other workings: Area \_\_\_\_\_ Total footage \_\_\_\_\_

DRILLING Yes  No  Cost \$ NIL  
Hole Size Number of Holes Total Footage  
Core: Diamond  Wireline   
Rotary: Conventional   
Reverse circulation   
Other \_\_\_\_\_

Contractor \_\_\_\_\_ Where core stored \_\_\_\_\_

LOGGING, SAMPLING, AND TESTING (check) Yes  No  Cost \$ NIL  
Lithology: Drill samples  Core samples  Bulk samples   
Logs: Gamma-Neutron  Density  Other   
Testing: Prox. analysis  FSI  Washability   
Carbonization  Petrographic  Plasticity  Other

OTHER WORK (specify details) NONE Cost \$ NIL

REPORTS:  
Reclamation work (Permit No. \_\_\_\_\_) Detail of work\* N.A.  
Cost \$ NIL

OPERATIONS:  
Work was supervised by Frank Martonhegyi Position Staff Geologist  
Is this person a registered or licensed Professional Engineer in British Columbia? Yes  No

NOTE—Where the licensee intends to perform, during the extended term of his licence, work not set out in the plan of operations filed under section 15 (2) (c), a supplemental plan of operations is to be attached.

\* If reclamation work reported in separate report give details of report identification.

VALUATION OF WORK: COST STATEMENT  
(Sec. 27, B.C. Reg. 436/75)

ON-PROPERTY COSTS: For period from February 1, 1978 to January 30, 1979

N.A. 1. OPERATOR'S FEES, SALARIES, AND WAGES:

	Average Number of Employees	Average Rate	Average Number of Days	Amount
Professional and technical	_____	_____	_____	_____
Machine operators and support	_____	_____	_____	_____
Miners	_____	_____	_____	_____
Other	_____	_____	_____	_____
Total operator's costs				\$ _____

2. CONTRACTORS AND CONSULTANTS:

Name	Service	Contract Amount
SCRI Survey Department	Geodetic Ground Control Survey	\$ 11,776
(including subcontractor: Northwest Survey)	Photogrammetric Mapping	_____
_____	_____	_____
_____	_____	_____
Total contractor and consultant costs		\$ 11,776

N.A. 3. EQUIPMENT AND INSTRUMENTS USED: Owned \_\_\_\_\_ Rented \_\_\_\_\_

Type	Rented From	Amount
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total equipment and instrument rentals		\$ NIL

N.A. 4. FIELD CAMP COSTS:

	Amount	
Food	_____	
Accommodation	_____	
Fuel	_____	
Other	_____	
Total field camp costs		\$ NIL

N.A. 5. SAMPLING, ANALYSIS, AND TESTING:

Service	Performed by	Amount
_____	_____	_____
_____	_____	_____
_____	_____	_____
Totals, samplings, analysis, and testing		\$ NIL

N.A. 6. SUPPLIES AND MATERIALS COSTS:

	Amount	
Process supplies	_____	
Operating and maintenance supplies	_____	
Office and technical supplies	_____	
Other supplies and materials	_____	
Total, supplies and materials		\$ NIL

N.A. 7. TRANSPORTATION COSTS (Ground transportation details):

Vehicle	Owner	Rental Rate	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Air support details:

Aircraft Type	Cost	Charter
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total transportation costs \$ NIL

N.A. 8. RECLAMATION WORK:

\_\_\_\_\_ \$ NIL

N.A. 9. TRAVEL EXPENDITURES (operator's costs only):

Number of Personnel	Number of Trips	Amount
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total travel expenditures \$ NIL  
Total costs \$ 11,776

(Secs. 28 and 29, B.C. Reg. 436/75)

N.A. OFF-PROPERTY COSTS: Period from \_\_\_\_\_ to \_\_\_\_\_, 19\_\_\_\_

- (a) Logistics and field support \_\_\_\_\_ \$ \_\_\_\_\_
- (b) Technical and feasibility studies \_\_\_\_\_ \$ \_\_\_\_\_
- (c) Preparation of reports \_\_\_\_\_ \$ \_\_\_\_\_
- (d) Supplies and services \_\_\_\_\_ \$ \_\_\_\_\_
- (e) Mobilization and demobilization of equipment \_\_\_\_\_ \$ \_\_\_\_\_
- (f) Travelling expenses \_\_\_\_\_ \$ \_\_\_\_\_  
(Items)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supporting Cost Statements Attached \_\_\_\_\_ Total \$ NIL  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total supporting costs \$ NIL

SUMMARY

On-property costs \_\_\_\_\_ \$ 11,776  
Off-property costs \_\_\_\_\_ \$ NIL  
Total costs \$ 11,776

Statement of costs verified by Accounting Division, Finance & Administration, SCRI

1979 - 01 - 30  
(Date)

*Helmuth Hoff*  
(Signature and position)

Analyst, Administration & Planning ONR