

6315

ASSESSMENT WORK SUBMISSION
ON THE WL CLAIMS
CARIBOO MINING DIVISION, B.C.

by

Exploram Minerals Ltd.,
1004 - 510 West Hastings Street
Vancouver, B.C.
V6B 1L8

June 1977

<p>MINERAL RESOURCES BRANCH ASSESSMENT REPORT</p> <p>NO. _____</p>
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In Pocket

Geological and Diamond Drilling Plan
WL Claims, Cariboo Mining Division, B.C.

Map # 1

PART A.

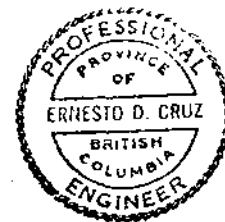
Statement of Qualifications

S T A T E M E N T O F Q U A L I F I C A T I O N S - E . D . C R U Z

I, Ernesto D. Cruz, of 7734 Garrett Drive, North Delta, B.C., HEREBY CERTIFY THAT:

- (1) I am a graduate Mining Engineer from Mapua Institute of Technology, Philippines (B.A.Sc. 1960) and University of Washington, Seattle, Washington (M.A.Sc. 1971).
- (2) I am a member of the Association of Professional Engineers of B.C. (Mining Section).
- (3) I have worked in mineral exploration from 1960 to 1967 in the Philippines and from 1967 to the present in British Columbia.
- (4) I supervised the diamond drilling exploration of the WL Mineral Claims for Exploram Minerals Ltd. during the period from May 30th to June 10th, 1977.
- (5) I have no interest directly or indirectly in the WL Mineral Claims or the securities of Exploram Minerals Ltd., nor do I expect to acquire or receive any.

ERNESTO DO CRUZ, P.ENG.



E. D. Cruz
Ernesto D. Cruz, P.Eng.

DATED at Vancouver, British Columbia,
this 30th day of June, 1977.

PART B.

Location of Core Storage

Exploram Minerals Ltd.

1004 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8
PHONE 682-8595

June 30, 1977.

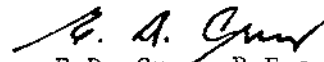
Mr. E.J. Bowles,
Chief Gold Commissioner,
Department of Mines and
Petroleum Resources,
Parliament Buildings,
Victoria, B.C.

Re: WL Mineral Claims, Cariboo M.D.,
Diamond Drilling Report

Dear Sir:

The core from DDH 77-1 on the WL claims is in core boxes stored near the collar of DDH 77-1 on the WL claims. The boxes are piled and securely wired together and covered with empty core boxes.

Yours truly,


E.D. Cruz, P.Eng.

EDC/efg

PART C.

Drill Core Logs

DIAMOND DRILL RECORD

PROPERTY WL Claims SHEET NO. 1 OF 5 HOLE NO. WL 774
 DRILLED BY: Newmac Industries Ltd. STARTED: June 3, 1977 COMPLETED: June 8, 1977 LOGGED BY: E.D. Cruz
 LOCATION: Moffat Creek, Horsefly, B.C. BEARING: S 40° E DIP: -45°
 ELEVATION: _____ FINAL DEPTH: 502'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
0-24'				Overburden
4-27'	2' 4"			Hb - granodiorite, possibly boulder
7-32'	5'			Dioritized andesite: Light gray to greenish, fine-grained andesitic volcanics with
12-34'	2'			- do - poorly developed crystals. Finely disseminated pyrite
14-43'	9'			- do - (.5-1%) and magnetite. Abundant chlorite and minor epidote.
13-51'	8'			- do -
11-61'	10'			- do -
11-71'	10'			- do -
11-81'	10'			- do -
11-90'	9'			- do -
10-96'	4'			Andesite porphyry: Dark gray to greenish, medium grained andesite with well
16-100'	4'			- do - developed laths of plagioclase phenocrysts. Variable disseminated pyrite (.5-1%) and magnetite.
100-104'	4'			Weakly brecciated volcanics (andesite). Abundant pyrite (2%) at 102-104'.
104-107'	3'			- do -
107-115'	8'			- do -
115-123'	8'			Andesite porphyry.

E. D. Cruz

DIAMOND DRILL RECORD

PROPERTY WL Claims SHEET NO. 2 OF 5 HOLE NO. WL 77
 DRILLED BY: Newmac Industries Ltd. STARTED: June 3, 1977 COMPLETED: June 8, 1977 LOGGED BY: E. Cruz
 LOCATION: Moffat Creek, Horsefly, B.C. BEARING: S 40° E DIP: -45°
 ELEVATION: _____ FINAL DEPTH: 502'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
123-133'	10'			Andesite porphyry
133-143	10'			- do -
143-153'	10'			- do - Clay-carbonate zone at 151'-154 1/2', pyrite stringers.
153-163'	10'			- do -
163-173	10'			- do -
173-183'	10'			- do -
183-187	3.5'			- do -
187-197	10'			- do -
197-207'	10'			- do -
207-217'	10'			Dioritized andesite: Relatively more disseminated pyrite (1-2%). Rock is light colored
217-227'	10'			- do - relatively harder & siliceous, increased chlorite content and
227-237'	10'			- do - lack of feldspar phenocrysts.
237-247'	10'			- do -
247-256	9'			- do -
256-263'	7'			- do -
263-273'	10'			- do -
273-277	3.6'			Green andesite: Weakly dioritized, pyrite (.5%)
277-285'	7.5'			- do - Fault gänge at 279.5-281.5', contains red hematite.
285-292'	7'			- do -

E. A. Cruz

PART D.

Drilling Contract with Bid Sheet and Job Specifications

DRILLING CONTRACT

THIS AGREEMENT made and entered into by and between:

EXPLORAM MINERALS LTD.
1004 - 510 West Hastings Street,
Vancouver, B.C.

hereinafter called Company, and

NEWMAC INDUSTRIES LTD.
6190 Meadowland Crescent,
Kamloops, B.C.

hereinafter called Contractor.

WITNESSETH: THAT,

WHEREAS, Company is the owner, part owner and/or operator, of certain properties on which it desires to have a program drilled and completed, and,

WHEREAS, Contractor represents that it has adequate equipment in good working order and fully trained personnel capable of efficiently operating such equipment with which it desires to drill for Operator:

NOW, THEREFORE, the parties hereto, each in consideration of the promises and agreements of the other, mutually agree as follows:

1. WORK TO BE DONE, LOCATION, COMMENCEMENT DATE, AND DEPTH:

1.1 Contractor agrees to drill and complete the hereinafter designated program in accordance with all provisions hereof and other conditions and specifications set forth in the Bid Sheet and Job Specifications, identified as Exhibit "A" attached hereto and made a part hereof.

1.2 Contractor further agrees to commence operations for the drilling of the project at the location, on the date, and to the depths agreed upon in Sections 1, 2 and 3 of Exhibit "A" hereof.

2. LABOUR, EQUIPMENT, MATERIALS, SUPPLIES AND SERVICES

2.1 All labour, equipment, material, supplies and services necessary to the proper operation or maintenance of the drilling equipment shall be furnished by Contractor. Additional material, equipment, special tools, supplies and services necessary or proper to the drilling and completion of the job shall be furnished at the drill site by the party designated in Exhibit "A". Should tools, materials, apparatus or services, other than those set forth herein or designated in Exhibit "A" be necessary to the drilling of the program, the cost of such tools, materials, apparatus or services and the manner in which they are to be furnished are to be agreed upon by the parties hereto.

2.2 Should Contractor purchase for Company at the Company's request any materials, supplies, or equipment which Company is obligated to furnish under the terms of this agreement, Company agrees to pay Contractor within thirty days (30) after date of receipt of Contractor's invoice ~~and~~ actual cost of such materials, supplies, or equipment. Contractor agrees to furnish Company copies of suppliers, vendors, or third party invoices covering such materials, supplies or equipment.

3. FOOTAGE RATE, HOURLY RATE, STAND-BY RATE, BASIS OF DETERMINING AMOUNTS PAYABLE TO CONTRACTOR.

3.1 Subject to all of the other provisions hereof, Company agrees to pay contractor for the work performed, services rendered, and the materials, equipment and supplies furnished by Contractor, a sum computed as hereafter prescribed.

3.2 For work performed on a footage basis, Contractor shall be paid the rate agreed upon and specified in Section 3 of Exhibit "A"; multiplied by the linear footage of hole drilled. Such linear footage of hole drilled shall be determined in the manner specified in Exhibit "A".

3.3 For work performed on an hourly basis, the hourly rate shall be as agreed upon in Section 3 of Exhibit "A".

3.4 If it is necessary to shut down Contractor's drill for repairs while Contractor is performing work on an hourly basis, Contractor shall be allowed compensation in the manner set out in Section 3(G) of Exhibit "A".

3.5 In determining the amount of hourly time for which Contractor is to be compensated, it is agreed that such ^{hourly} work time shall begin when Contractor suspends normal drilling operations being conducted on a footage basis, and shall include the time required to restore the hole to the same drilling conditions which existed when operations on a footage basis were suspended.

*From
CCK.*

4. SECRECY

4.1 The Contractor will not give out any information regarding drill results or permit any individual other than the Company's representative, except upon specific permission of responsible officials of the Company.

5. DISCIPLINE

5.1 Contractor shall be an independent contractor with respect to the performance of all work hereunder, and neither Contractor nor anyone employed by Contractor shall be deemed for any purpose to be the employee, agent, servant, or representative of Company in the performance of any work or service or part thereof in any manner dealt with hereunder. Company shall have no direction or control of the Contractor or its employees and agents except in the results to be obtained. The work contemplated herein shall meet the approval of Company and be subject to the general right of inspection of Company to secure the satisfactory completion thereof. The actual performance and superintendence of all work hereunder shall be by Contractor, but Company or its representatives shall have unlimited access to the operations to determine whether work is being performed by Contractor in accordance with all the provisions of this Contract and work order.

6. INSURANCE

At any and all times during the term of this Agreement, Contractor agrees to carry insurance of the types and in the minimum amounts as follows:

- 6.1 Workmen's Compensation insurance in full compliance with all applicable Provincial laws and regulations.
- 6.2 Employer's liability insurance in the minimum limits of \$100,000.00 per accident covering injury or death to any employee which may be outside the scope of the workmen's compensation statute of the Province in which the work is performed.
- 6.3 Comprehensive general liability insurance with minimum limits of \$500,000.00 for injury to or death of any one person and \$1,000,000.00 for any one accident and with a minimum limits of \$250,000.00 for property damage.
- 6.4 Automobile liability insurance covering owned, non-owned and hired automotive equipment with minimum limits of \$500,000.00 for injury to or death of any one person \$1,000,000.00 for any one accident and \$250,000.00 property damage.
- 6.5 All such insurance shall be carried in a Company or Companies acceptable to Company and shall be maintained in full force and effect during the term of this Agreement, and shall not be cancelled, altered, or amended without ten (10) day's prior written notice having first been furnished to the Company. Contractor agrees to have its insurance carrier furnish Company a certificate or certificates evidencing insurance coverage in accordance with the above requirements and when requested by Company, to furnish certified copies of all said insurance policies.

7. LOSS OR DAMAGE

In addition to all other indemnifying provisions contained herein, Contractor represents and warrants that the use or construction of any and all tools and equipment furnished by Contractor and used in the work provided for herein does not infringe on any license or patent which has been issued or applied for, and Contractor agrees to indemnify and hold Company harmless from any and all claims, demands, and causes of action of every kind and character in favour of or made by any patentee, licensee, or claimant of any right or priority to such tools or equipment, or the use or construction thereof, which may result from or arise out of furnishing or use of any such tool or equipment by Contractor in connection with the work under this agreement and applicable work orders.

Contractor shall be liable at all times for damage to or destruction of Contractor's surface equipment and materials, regardless of how such damage or destruction occurs. Company shall be under no liability to reimburse Contractor for any such loss except loss or damage thereto caused by gross negligence or willful acts or omissions of Company or Company's agents, servants, or employees.

Contractor shall not be responsible for damage to the hole on which Contractor performs services nor to property of Company unless such damage shall be caused by or the result of the gross negligence or willful misconduct of Contractor, its agents or employees, this provision applying to sub-surface damage and surface damage resulting from sub-surface damage.

Company shall be responsible for and protect endemnity and save contractor harmless from any liability for injury to or death of persons or damage to peroperty (including, but not

limited to, injury on the job) growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the gross negligence or willful misconduct of contractor, its agents or employees.

Except as otherwise provided, Contractor will indemnify and hold Company harmless from and against all damages and claims for damage by reason of injury or death of persons or damage to property caused by the gross negligence of Contractor, its employees or agents, in the performance of work hereunder and not caused or contributed to by the negligence of Company, its agents or employees.

Neither Company nor Contractor shall be liable to the other for any delays or damages or any failure to act due, occasioned, or caused by reason of Provincial laws or the rules, regulations or orders of any public body or official purporting to exercise authority or control respecting the operations covered hereby, including the use of tools and equipment, or due, occasioned, or caused by strikes, action of the elements, or causes beyond the control of the parties affected hereby, and delays due to the above causes, or any of them, shall not be deemed to be a breach of or failure to perform under this Agreement.

8. PAYMENT

The Company shall pay Contractor for the work and/or equipment or materials furnished by Contractor at the rate stipulated in the work orders provided for herein, subject to the same being accepted by Company as fully complying with all the terms, conditions, specifications and requirements of this Contract and such work orders, provided Contractor shall have satisfied Company that there are no liens or claims on or against Company or its property by reason of the operations of Contractor hereunder.

9. LIENS

The Contractor shall be responsible for, and will pay promptly all costs and charges, incurred by itself for labour, machinery tools, and supplies used, and will permit no liens to be filed against or to remain against the Company for non-payment of the same.

10. DRILLING SITES

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the Company representative relating to place and time of drilling.

The Company and Contractor respectively agree to comply with all laws, rules and regulations Federal or Provincial, which are now or may become applicable to operations covered by this Agreement and any work order issued in connection herewith. If any of the terms hereof are in conflict with any applicable rule, regulation, order or law of the Provincial or Federal Regulatory Body, the terms of this Contract so in conflict shall not apply and the applicable Provincial or Federal rule, regulation, order or law shall prevail.

11. ECOLOGY AND SANITATION

During the course of the work, the Contractor shall at all times keep the site of any drilling and camp areas free from accumulation of waste material, rubbish or garbage and upon completion of the work, shall remove all tools, scaffolding, surplus materials, rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires and sanitation in the bush and shall bear all costs arising from any violation thereof.

12. CAVITIES

In the event that cavities or loose and caving material or excessive water flows are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such uncompleted holes at the rates herein specified for all footage completed. However, should the Company request that further work be carried out in the hole beyond this point, then the Contractor shall continue work in the hole, but such continuing work shall be at Field Cost rates.

13. ACCESS

Preparation of drill sites and access roads is the responsibility of the Contractor. The Company shall provide, at no cost to the Contractor, all rights of ingress and egress to all lands that may be required to enable the Contractor to carry out the specified work.

14. TIMBER RIGHTS

The Contractor shall be permitted to cut and fell any timber on the Company's property as may be required in the course of the work hereunder, and the Company shall indemnify and save harmless the Contractor from any assessment for stumpage or other charges of every kind and nature. Cutting of timber, where necessary, shall be kept to a minimum and under no circumstances shall the indemnity of the Company herein extend to the cutting of any of the large fir trees in the area.

15. CORE

The drilling shall be conducted so as to produce as high a percentage of core as the nature of the ground being drilled shall allow. All cores recovered shall be delivered to the Company at the drill site, carefully marked.

16. COMPANY REPRESENTATIVE

The Company will have a representative on site authorized to approve client charges on a daily basis.

17. HOLE DIRECTION AND DEPTH

The Contractor does not guarantee the direction of the hole beyond the collar nor guarantee to drill any hole to any specified depth. The Contractor will however, expend every reasonable effort to complete all holes to the satisfaction of the Company,

18. RIGHT TO VACATE

Upon completion of the work herein contracted to performed the Contractor shall have the right to remove within a reasonable length of time all temporary buildings, and other fixtures including trade fixtures, machinery equipment and appliances placed by the Contractor upon such lands.

19. DISPUTES

This Agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of British Columbia.

In the event there is a conflict between the provisions hereof and any papers or documents, which may have been executed or passed between the parties hereto in connection with the subject matter hereof, it is understood and agreed that the provisions hereof shall be controlling. It is expressly understood and agreed by the parties hereto that no provision of any delivery ticket, invoice or other instrument used by Contractor in setting forth the operation conducted hereunder shall supersede the provisions of this Agreement.

20. FORCE MAJURE

The Contractor reserves the right to cancel this contract should its fulfillment be rendered impossibility by:

- 20.1 War, invasion, insurrection, riot, the order of or regulations of any civil or military authority, or by strikes, lock-outs, or labour disputes, whether in or in the neighborhood of the Contractor's plant or of that of any supplier of materials necessary for the completion of the contract.
- 20.2 The inability to obtain essential materials and supplies due to priority restriction.
- 20.3 The inability to secure labour due to the restrictions or causes beyond the Contractor's control, and the Contractor shall not be liable for any loss or damage directly or indirectly suffered by the Company by reason of exercise of such right of cancellation.

21. NOT ASSIGNABLE

It is mutually agreed that this Agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by either party without the consent in writing of the other party first had and obtained.

22. MAILING ADDRESS

That any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to the Company as follows:

EXPLORAM MINERALS LTD.
1004 - 510 West Hastings Street,
Vancouver, B.C.

or to the Contractor by registered letter addressed as follows:

NEWMAC INDUSTRIES LTD.
6190 Meadowland Crescent,
Kamloops, B.C.

This AGREEMENT may be altered only by written consent of both parties hereto.

24 TIME IS OF THE ESSENCE

Time is expressly declared to be the essence of this Contract. If either party hereto defaults in the performance of this Contract or of work commenced under work orders as provided for herein, the other party has the option to terminate this Contract and the work order involved.

WITNESS THE SIGNATURES of the parties hereto in DUPLICATE ORIGINALS,
this 5th day of MAY A.D., 1977.

WITNESSES:

EXPLORAM MINERALS LTD.
OPERATOR

G. A. Gray

By: C.C. Kamm

WITNESS:

NEWMAC INDUSTRIES LTD.
CONTRACTOR

G. A. Gray

By: James MacNeil

BID SHEET AND JOB SPECIFICATIONS

NEWMAC INDUSTRIES LTD.
6190 Meadowland Crescent,
Kamloops, B.C.
V2C 5J1

Phone: 573-3153

EXPLORAM MINERALS LTD.
1004 - 510 West Hastings Street,
Vancouver 2, B.C.

Gentlemen:

Please accept this as a firm proposal to drill and complete your diamond drill project in the Horsefly area of British Columbia. The bid specifications are completed in the articles following.

Thank you.

Sincerely,
NEWMAC INDUSTRIES LTD.

Per: *2/7/77 James MacNeil*

1. COMMENCEMENT DATE

Contractor agrees to commence actual moving in operations at the above location on or before May 11th 1977.

2. DESCRIPTION OF WORK

The work is to consist of a series of drill holes, drilled at locations specified by the Company. A total minimum footage of 1,000 feet shall be drilled, but total footage may be extended by mutual consent. Holes shall be drilled with B.Q. tools producing 1 7/16 diameter core. Maximum depth of any hole shall not exceed 700 feet, and minimum depth shall be 250 feet. The Contractor will not be called upon to drill any hole at a flatter angle than - 45°. Measurement of all holes shall be taken from the top of casing pipe. If holes of a greater depth than 700 feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

EXPLORAM MINERALS LTD. agrees that excessive diamond cost will be charged if down holes encounters run diamond costs more than \$2.00 per foot.

3. SCHEDULE OF RATES:

The Company agrees to pay the Contractor for footage drilled and other services performed as follows:

- (a) Coring at Bedrock \$ 8.50 per foot.

(b) Casing of Overburden

Depth interval	
0 - 50 ft.	\$ 8.50
50 -100 ft.	Field Cost plus 10%

(c) The following services will be provided on an operating Field Cost Plus 10% basis.

1. Casing of overburden over 50 ft.
2. Reaming and setting casing for borehole reduction, borehole stabilization, and control of return water.
3. Drilling caved or broken ground.
4. All cementing operations excluding setting time but including drilling of set cement.
5. Wedging of boreholes.
6. Supplying water to the drill when water supply over 3,000 feet, lateral and/or 500 ft. vertical lift from borehole collar under non-freezing conditions and 500 ft. lateral and/or 500 ft. vertical lift under freezing conditions.
7. Recovering pipe and/or casing at Company's request Where operating field costs are defined as:

OPERATING FIELD COSTS:

Labour (including supervision) \$ 8.50 per man hour

Drill, _____ pumps and service vehicles including normal operating repairs, _____ per drill hour.

Tractor \$15.00 per hour.

Water Truck (excluding driver) \$ 15.00 per hour

Pumps for water supply.

Supplies consumed or damaged beyond use due to site conditions including diamond articles, mud ingredients, cement, rods, core barrels, etc., site replacement value plus 10%.

(d) The following services would be provided on a non-operating field cost plus 10% basis.

1. Setting time for cement.
2. Delays caused by Client.
3. Travelling time of crew in excess of 30 minutes per man shift (Labour only).

Where non-operating field costs are defined as:

NON-OPERATING FIELD COSTS:

Labour (including supervision) \$ 8.50 per man hour.

Drill, pump and service vehicle \$ _____ per drill hour.

Tractor - operating \$15.00 per hour
non-operating No charge per hour

IN RESPONSE TO THE ABOVE REQUEST our bid for the drilling program of the project hereinabove described is submitted as set forth above.

NEWMAC INDUSTRIES LTD.

By: *James Mathies*

Dated: April 15/77

At Kamloops, B.C.

PART E.

Cost Statement of Diamond Drilling
with Daily Drilling Reports

NEWMAC

INDUSTRIES LTD.

TELEPHONE: (604) 573-5466 x 3153.

CONTRACT DIAMOND DRILLING

~~XXXX~~ - KAMLOOPS, B.C.
6190 Meadowland Cres.
V2C 5J1

RECEIVED

JUN 17 1977

June 15/77

EXPLORAM MINERALS LTD.
VANCOUVER OFFICE

EXPLORAM MINERALS LTD.
1004-510 West Hastings St.
VANCOUVER B.C.
V6B-1L8/

MR. C.C.KAMM.

This is the final charges for your drilling on the WL claims in the HORSEFLY area of B.C.

The daily report charges are added up on the reverse of each daily copy.

THANK YOU and I hope we can be of service to you in the future.

Sincerely,

James MacNeill

25040 +
25685 +
37070 +
21780 +
34680 +
57800 +
73950 +
58650 +
107100 +
104040 +
15895 +
35200 +
600890 *

600890 +
0014 +
7337 +
616241 *

Daily report charges-----\$6008.90 -
Camp supplies \$72.86 plus 10%-----\$ 80.14 -
23 core boxes @ \$2.90 = \$66.70+10% \$ 73.37 -
total --\$6162.41. -

Appl CCK 17 June 1977

Charge to Acct #505

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explorations LOCATION Horseshoe
 SHIFT—FROM a.m. To p.m. DATE May 30/77
 HOLE NO. W1-1-22 ANGLE -45° SIZE B DRILL No. 2

DEPTH START OF SHIFT
 DEPTH END OF SHIFT
 FOOTAGE DRILLED
 CORE RECOVERED
 NUMBER OF RUNS
 ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

FEET OF CASING
 TYPE OF CASING
 NEW USED

BITS USED IN OVERBURN NO.
 TYPE

TIME ALLOTMENT

DRILLING
 CEMENTING
 TESTING
 MOVING—FROM HOLE TO HOLE
 SETTING UP
 TEARING DOWN
 PULLING CASING
 TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
 REPAIR
 WATER
 AIR
 FISHING
 WASHING & CLEANING HOLE
 STANDBY

BIT No. ON OFF

 TOTAL BIT FOOTAGE No.

RUNNER J. MacNeil HRS. 1.2 S HELPER P. Anderson HRS. 1.2 S
 RUNNER HRS. S HELPER HRS. S
 RUNNER HRS. S HELPER HRS. S

REMARKS Load drill & equipment and mobility for
Horseshoe Area. (Hundred mile step out).
2 men 1.2 hrs. Dozer work 2 hrs
Truck stop. 2 hrs.

FOREMAN ENGINEER

May 30/77

Income	12 hrs	240' @ 85¢/hr	\$ 204.00
			30.00
			30.00
			<hr/>
			264.00
		10%	26.40
			<hr/>
			\$ 290.40

		May 31/77
Simon & Schuster	16 @ \$8.50	136.00 -
Degener	25 hrs @ \$1.50	37.50 -
Truck chgs	4 hrs @ \$15	60.00 -
		<hr/> 233.50 -
	10.70	233.50 -
		<hr/> \$256.85 -

NI NEWMAC INDUSTRIES LTD.

DAILY DRILLING REPORT

TELEPHONE: (604) 573-3153
 P.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Exploration* LOCATION *Horseshoe B.C.*
 LIFT-FROM a.m. To p.m. DATE *June 1/77*
 HOLE NO. *62-1-72* ANGLE SIZE *B 4* DRILL No. *2*

DEPTH START OF SHIFT
 DEPTH END OF SHIFT
 FOOTAGE DRILLED
 CORE RECOVERED
 NUMBER OF RUNS
 ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

FEET OF CASING
 TYPE OF CASING
 NEW USED

BITS USED IN OVERBURN NO.

TYPE

TIME ALLOTMENT

DRILLING
 CEMENTING
 TESTING
 MOVING-FROM HOLE TO HOLE
 SETTING UP
 TEARING DOWN
 PULLING CASING
 TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
 REPAIR
 WATER
 AIR
 FISHING
 WASHING & CLEANING HOLE
 STANDBY

BIT No. ON OFF

TOTAL BIT FOOTAGE No.

RUNNER *J. McNeil* HRS. *11* S
 RUNNER HRS. S
 RUNNER HRS. S

HELPER *P. ...* HRS. *11* S
 HELPER HRS. S
 HELPER HRS. S

REMARKS *Push road to drill site repair some
 small holes set up tent camp at site
 move in some equipment and start cut
 drill site
 set work 10 hrs*

FOREMAN

ENGINEER

June 1/77

Income 11 hrs
Wages 10 hrs

22 @ \$8.50
@ \$15

187
150.00 -

337.00

1070

3370 -

\$376.70

NI NEWMA INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
P.O. 2, BARNHARTVALL KAMLOOPS, B.C.

COMPANY *Empire* LOCATION *Horsey B.C.*
SHIFT—FROM a.m. To p.m. DATE *June 2/77*
HOLE NO. *41-1-77* ANGLE SIZE *B 4* DRILL No. *2*

DEPTH START OF SHIFT
DEPTH END OF SHIFT
FOOTAGE DRILLED
CORE RECOVERED
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING
.....
.....

FEET OF CASING
TYPE OF CASING
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ON OFF
TOTAL BIT FOOTAGE No.

RUNNER *J. McNeil* HRS. *5* S HELPER *P. Anderson* HRS. *1.5* S
RUNNER HRS. S HELPER HRS. S
RUNNER HRS. S HELPER HRS. S

REMARKS *Repair mud holes in road
Finish camp set up etc.
Trip to umso Lake for fuel & supplies*

FOREMAN ENGINEER

General 18 m/hrs @ \$8.50
Finger work 3 hrs @ \$15

June 2/77
153.00

45.00 -

198.00 -

10%

19.80 -

\$

217.80 -

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Exploran* LOCATION *Hessley B.C.*
SHIFT—FROM a.m. To p.m. DATE *June 3/77*
HOLE NO. *WL-1-27* ANGLE *- 45°* SIZE *B 4* DRILL No. *2*

DEPTH START OF SHIFT *0*
DEPTH END OF SHIFT *32*
FOOTAGE DRILLED *32*
CORE RECOVERED *4*
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

FEET OF CASING *25'*
TYPE OF CASING *BW*
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ON OFF

TOTAL BIT FOOTAGE No.

RUNNER *J. MacNeil* HRS. *1.2* S
RUNNER HRS. S
RUNNER HRS. S

HELPER *P. Lavelle* HRS. *1.2* S
HELPER HRS. S
HELPER HRS. S

REMARKS *Finish setting up drill. Tricone to 25 ft. Pull casing and put on shoe and pull next casing. add core string and core to 32 ft. H. has setting up iron.*

FOREMAN ENGINEER

June 3/77

Anthony up from office 80⁹8⁵⁰ 68

25' canopy 2 ft. ceiling = 52' 28⁰⁰/ft 272 00 -

340.00

10% of 68.00

6 80 -

\$ 346.80 -

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Cooper & Lyman LOCATION Howeville B.C.
SHIFT—FROM a.m. To p.m. DATE June 4/77
HOLE NO. 101-1-22 ANGLE -45° SIZE 12.9 DRILL No. 2

DEPTH START OF SHIFT 32
DEPTH END OF SHIFT 100
FOOTAGE DRILLED 68
CORE RECOVERED 12
NUMBER OF RUNS
ROCK FORMATION

Coast Company

FEET OF CASING
TYPE OF CASING
NEW USED

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

MATERIAL & CHEMICALS, MUD MIXING
.....
.....

BITS USED IN OVERBURN NO.
TYPE

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ON OFF

TOTAL BIT FOOTAGE No.

RUNNER J. McMillan HRS. 1.2 S
RUNNER HRS. S
RUNNER HRS. S

HELPER P. Gibson HRS. 1.2 S
HELPER HRS. S
HELPER HRS. S

REMARKS

FOREMAN

ENGINEER

Army 601 co $\frac{1}{8}$ sq/ft 578.00 - June 1/77

NI NEWMAC INDUSTRIES LTD.

TELEPHONE (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Exploration* LOCATION *Herbyly B.C.*
SHIFT—FROM a.m. To p.m. DATE *June 3/77*
HOLE NO. *WL-1-77* ANGLE *-45°* SIZE *B 4* DRILL No. *2*

DEPTH START OF SHIFT *100*
DEPTH END OF SHIFT *187*
FOOTAGE DRILLED *87*
CORE RECOVERED *87*
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING
.....
.....
.....

Good Core

BITS USED IN OVERBURN NO.
TYPE

FEET OF CASING
TYPE OF CASING
NEW USED

TIME LOSS & DELAY
MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

BIT No. ON OFF
TOTAL BIT FOOTAGE No.

RUNNER *J. MacNeil* HRS. *9* S
RUNNER HRS. S
RUNNER HRS. S
REMARKS

HELPER *P. Anderson* HRS. *9* S
HELPER HRS. S
HELPER HRS. S

FOREMAN

ENGINEER

Leviy 27' @ 8⁵⁰

June 5/77
739.50

NI NEWMAC INDUSTRIES LTD.

TELEPHONE (604) 573-3153
P.O. 2, BARNHARTVALE, KAMLOOPS, B.C.

DAILY DRILLING REPORT

COMPANY Exploration LOCATION Horseshoe
LEFT-FROM a.m. To p.m. DATE June 6/77
HOLE NO. 114-1-77 ANGLE -4.5° SIZE B 9 DRILL No. 2

DEPTH START OF SHIFT 1.67
DEPTH END OF SHIFT 2.56
FOOTAGE DRILLED 69
CORE RECOVERED 69
NUMBER OF RUNS
ROCK FORMATION Good Corrug

MATERIAL & CHEMICALS, MUD MIXING
.....
.....

FEET OF CASING
TYPE OF CASING
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

RUNNER J. M. ... HRS. 1.5 S
RUNNER HRS. S
RUNNER HRS. S

HELPER J. ... HRS. 1.2 S
HELPER HRS. S
HELPER HRS. S

REMARKS
.....
FOREMAN

ENGINEER

Monday

69' @ 8⁵⁰

586-170

June 6/77

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.F. 2, BARNHARTVALE, KAMLOOPS, B.C.

DAILY DRILLING REPORT

COMPANY *Explorations* LOCATION *Hercynia B.C.*
SHIFT—FROM a.m. To p.m. DATE *June 7/77*
HOLE NO. *U-1-1-77* ANGLE *-45°* SIZE *B 9* DRILL No. *2*

DEPTH START OF SHIFT *256*
DEPTH END OF SHIFT *372*
FOOTAGE DRILLED *126*
CORE RECOVERED *126*
NUMBER OF RUNS
ROCK FORMATION *Good dolomite + casing*

MATERIAL & CHEMICALS, MUD MIXING
.....
.....

FEET OF CASING
TYPE OF CASING
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

RUNNER *J. McNeil* HRS. *1.5* S
RUNNER HRS. S
RUNNER HRS. S

HELPER *J. Dickson* HRS. *1.5* S
HELPER HRS. S
HELPER HRS. S

REMARKS *Pneum. needs to change bit at 256.
Hole was clean to bottom.*

FOREMAN

ENGINEER

Accounting

12'6" @ 8⁵⁰

1071.00 -

June 7/77

NI NEWMA INDUSTRIES LTD.

TELEPHONE 1604 57 153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Explorations* LOCATION *Harvey P.C.*
SHIFT—FROM a.m. To p.m. DATE *June 2/72*
HOLE NO. *61-1-12* ANGLE *-45°* SIZE *B 9* DRILL No. *2*

DEPTH START OF SHIFT *382*
DEPTH END OF SHIFT *500*
FOOTAGE DRILLED *118*
CORE RECOVERED *118*
NUMBER OF RUNS
ROCK FORMATION *Coal structure & clay*

MATERIAL & CHEMICALS, MUD MIXING

FEET OF CASING
TYPE OF CASING
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ON OFF
TOTAL BIT FOOTAGE No.

RUNNER *J. McNeil* HRS. *12* S
RUNNER HRS. S
RUNNER HRS. S

HELPER *F. Carlson* HRS. *12* S
HELPER HRS. S
HELPER HRS. S

REMARKS *Finished hole. Part of dismounted.
Put up down 2 hrs.*

FOREMAN ENGINEER

June 8/77

Account	110' @ \$850	100.370
Income	4 hrs @ \$850	3400.00
	12%	340
		<hr/>
		1040.40 -

NI NEWMA INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Exploration* LOCATION *Mercedly B.C.*
 LIFT-FROM a.m. To p.m. DATE *Jan 9/77*
 HOLE NO. *U.L-1-77* ANGLE *-45°* SIZE *B 1* DRILL No. *2*

DEPTH START OF SHIFT
 DEPTH END OF SHIFT
 FOOTAGE DRILLED
 CORE RECOVERED
 NUMBER OF RUNS
 ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

FEET OF CASING
 TYPE OF CASING
 NEW USED

BITS USED IN OVERBURN NO.
 TYPE

TIME ALLOTMENT

DRILLING
 CEMENTING
 TESTING
 MOVING-FROM HOLE TO HOLE
 SETTING UP
 TEARING DOWN
 PULLING CASING
 TRAVELLING

TIME LOSS & DELAY

MAINTENANCE
 REPAIR
 WATER
 AIR
 FISHING
 WASHING & CLEANING HOLE
 STANDBY

BIT No. ON OFF

 TOTAL BIT FOOTAGE No.

RUNNER *J. MacNa* HRS. *10* S HELPER *P. Anderson* HRS. *7* S
 RUNNER HRS. S HELPER HRS. S
 RUNNER HRS. S HELPER HRS. S

REMARKS *Finish tearing down drill & camp.
 Load for mobilization to Kamloops.
 Clean up site with dog and walk out
 to creek crossing.
 Get work done in area some equipment to Kamloops*

FOREMAN ENGINEER

June 9/77

17 - 1000 hrs @ ~~850~~

10%

144.50 -

14.45 -

158.95

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-3153
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY *Exp. Services* LOCATION *Merseyfly B.C.*
LIFT—FROM a.m. To p.m. DATE *June*
HOLE NO. *W.L.-1-77* ANGLE *-45°* SIZE *R 9* DRILL No. *2*

DEPTH START OF SHIFT
DEPTH END OF SHIFT
FOOTAGE DRILLED
CORE RECOVERED
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING
.....
.....

FEET OF CASING
TYPE OF CASING
NEW USED

BITS USED IN OVERBURN NO.
TYPE

TIME ALLOTMENT

TIME LOSS & DELAY

DRILLING
CEMENTING
TESTING
MOVING—FROM HOLE TO HOLE
SETTING UP
TEARING DOWN
PULLING CASING
TRAVELLING

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

RUNNER *J. McNeil* HRS. *10* S
RUNNER HRS. S
RUNNER HRS. S

HELPER *D. Fortman* HRS. *10* S
HELPER HRS. S
HELPER HRS. S

REMARKS *Load cat etc. mobilizing to Kamloops.*
10 hrs.

FOREMAN

ENGINEER

June 177

Income 10 hrs

20 @ \$8.50

170.00-

Travel - days

10 hrs @ 15

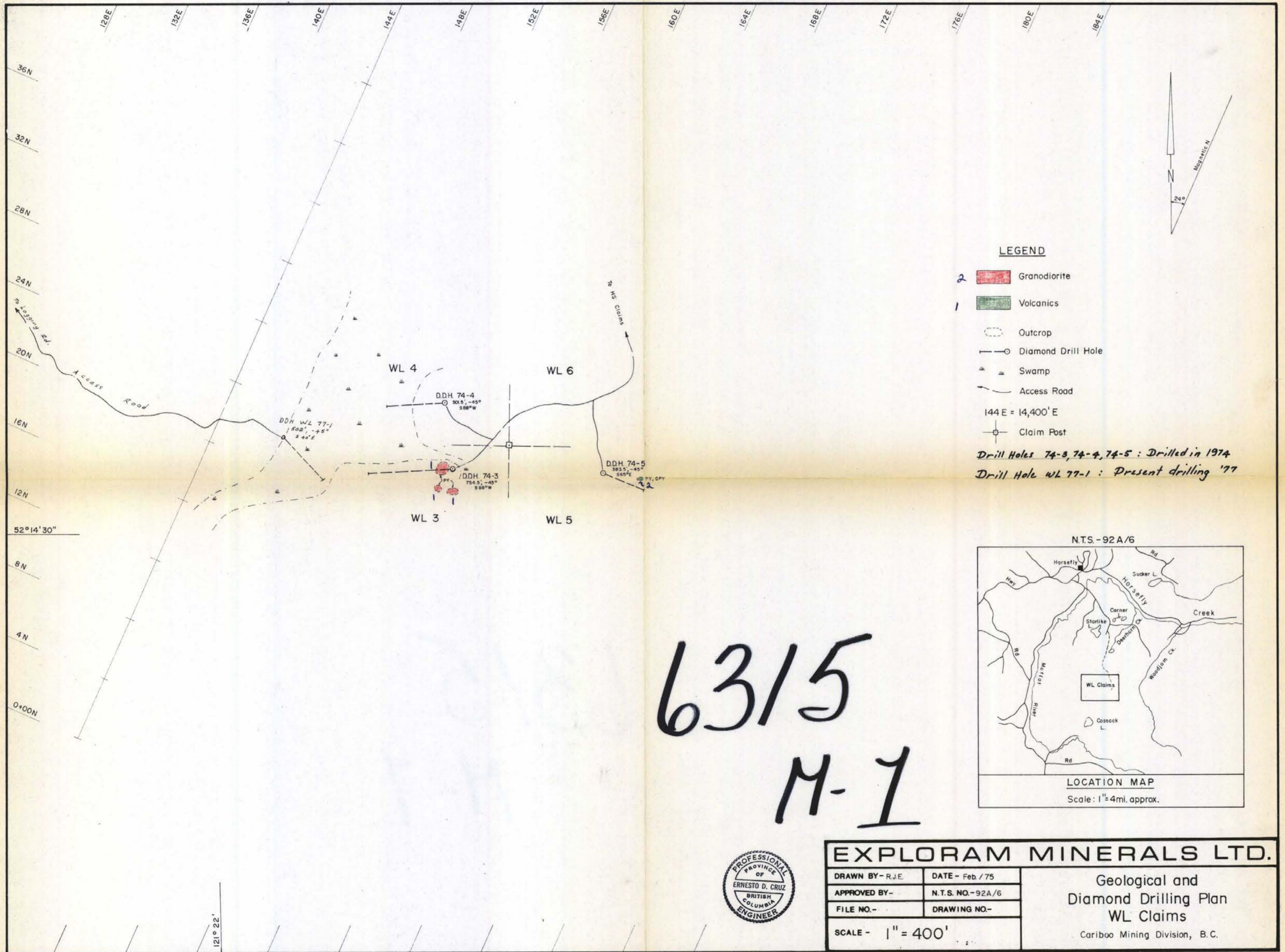
150.00-

320.00-

1070

32.00-

\$ 352.00-

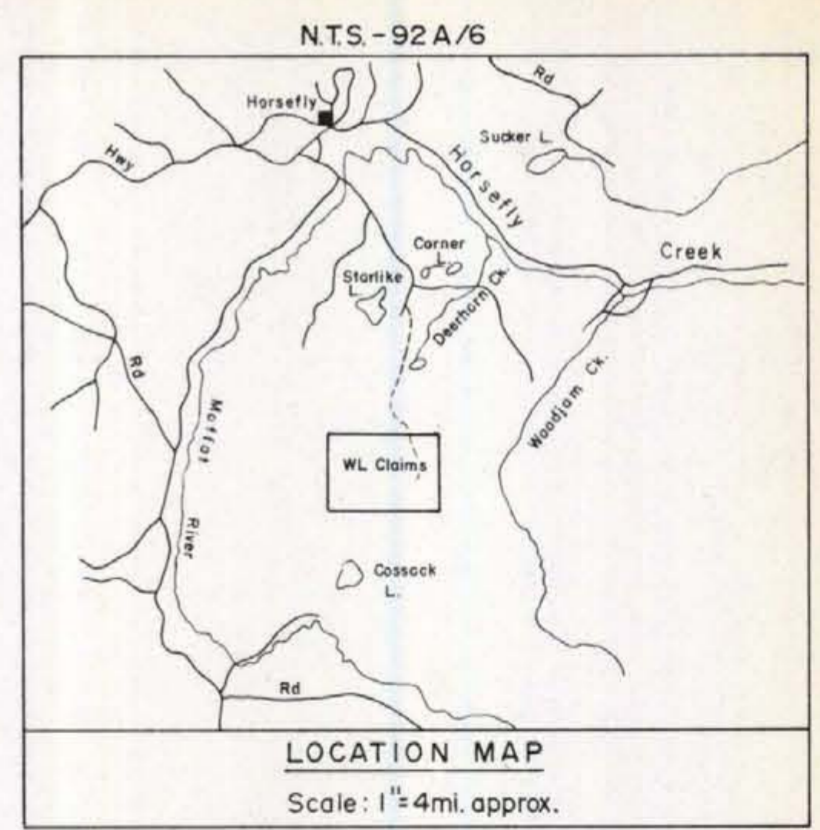


LEGEND

- 2 Granodiorite
- 1 Volcanics
- Outcrop
- Diamond Drill Hole
- Swamp
- Access Road
- 144 E = 14,400' E
- Claim Post

Drill Holes 74-3, 74-4, 74-5 : Drilled in 1974
 Drill Hole WL 77-1 : Present drilling '77

6315
M-1



EXPLORAM MINERALS LTD.	
DRAWN BY - RJE	DATE - Feb. / 75
APPROVED BY -	N.T.S. NO. - 92A/6
FILE NO. -	DRAWING NO. -
SCALE - 1" = 400'	
Geological and Diamond Drilling Plan WL Claims Cariboo Mining Division, B.C.	