5411 - B

93A/3W

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

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5411 MAP

December 1974

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PART A.

Statement of Qualifications

STATEMENT OF QUALIFICATIONS - E.D. CRUZ

I, Ernesto D. Cruz, of 8596 Terrace Drive, Delta, B.C., HEREBY CERTIFY THAT:

(1) I am a graduate Mining Engineer at 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 for about eleven years (1960-1967, Philippines; 1967-present, British Columbia).

(4) I supervised the diamond drilling exploration of the HS and WL Mineral Claims for Exploram Minerals Ltd., during the period from August 1 to September 30, 1974.

(5) I have no interest directly or indirectly in the HS and WL Mineral Claims or the securities of Exploram Minerals Ltd., nor do I expect to acquire or receive any.

ERNESTO DO CRUZ, P.ENG.

Ernesto D. Cruz., P. Eng.

DATED at Vancouver, British Columbia,
this 21st day of October, 1974.

PART B.

Location of Core Storage

Exploram Minerals Ltd.

1004 - 510 WEST HASTINGS STREET
VANCOUVER 2, B.C. V6B 1L8
PHONE 682-8595

December 6, 1974.

Gold Commissioner,
Department of Mines and
Petroleum Resources,
890 West Pender Street,
Vancouver, B.C.

Re: Core Storage Location

Dear Sir:

The core from DDH 74-3, 74-4, and 74-5 on the WL claims are in core boxes stored near the collar of DDH 74-1 and 74-2 on the HS claims. The boxes are piled securely and covered with plywood.

Yours truly,

E.D. Cruz

EDC/efg

E.D. Cruz, P.Eng.

PART C.

Drill Core Logs

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS — SHEET NO. 1 OF 11 — HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES — STARTED: August 22, 1974 — COMPLETED: Sept. 5/74 — LOGGED BY: E.Cruz

LOCATION: WL-4 24+50 N, 158+50 E — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 754.5'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
0-13				Casing
13-16	1.2			13-25: Coarse grained, white to buff coloured granodiorite
16-25	8.5			Plagioclase >50% Quartz >5% Hornblende 5% altered to chlorite
25-26.5	1.5			Py .5% replaces mafics, Tourmaline <.5%
26.5-27.5	0.8			- do - Fractured core at 25-26.5, 26.5-31
27.5-29	1.2			- do -
29-31	1.5			- do -
31-37	5.3			- do - Intensely fractured with gouge at 35-37. Kaolinized
37-40	3			- do - Kaolinized
40-50	10			- do - Intensely silicified at 40-42.5 and specks of cpy.
50-55	5			- do - Py 0.5-1% Chloritized mafics 5-10%
55-65	10			- do - Specks of cpy at 61'
65-67	2			- do - Py .5-1%
67-77	10			- do -
77-87	10			- do - Rock change to pinkish, quartz rich granodiorite at 83'
87-97	10			- do - Pinkish, more quartz (10-15%), magnetite .5-1%
97-107	10			- do - Pinkish granodiorite up to 105.5
107-117	10			- do - Py .5-1%
117-127	10			- do - Py 1-2%

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 2 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E. Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
127-137	10			- do - Py .5% Locally pyritized
137-147	10			Coarse grained, white granodiorite Py .1%
147-157	10			- do - Quartz 15% Epidote 2-3% Plagioclase 60% Py .5%
				Tourmaline
157-166	9			- do -
166-170.5	4			- do - Moderately fractured core. Py .5-1%
170.5-173.5	2			- do - Py Nil Fracture zone at 169'. Sections with pink K-spar.
173.5-178.5	5			- do - Increasing quartz Py nil
178.5-180	1.2			- do -
180-187	6.5			- do - Quartz >20% Py Nil Tourmaline Nil
				Chloritized mafics 5% Epidote 1-2%
				Moderately fractured at 186-187
187-191	3.7			- do - More quartz, poor mafic Py Nil
191-193	0.4			- do -
193-195	0.8			- do - Intensely fractured, poor recovery
195-199	3			Pinkish, more siliceous (quartz) granodiorite, Py Nil
				Chlorite 2-3% Epidote poor Qtz > 20%
199-201	1			- do - Py poor <.1%

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 3 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E. Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
201-207	6			White, silicified granodiorite. Chloritized mafics 5%
				Fault fracture at 206-207, Gouge along fracture 50° from axis.
207-208	.8			- do - Weakly fractured
208-209.5	1.5			- do -
209.5-212	1.5			- do - Mafic 1% Py <.5%
212-216	4			- do -
216-220	3.5			White, finer grained, silicified granodiorite. Chlorite 1%
				Epidote <1% Py specks & along fractures .5%
220-224.5	4.5			Altered dacite: fine to medium grained, white to greenish coloured, relatively soft rock (Hybrid or contaminated rock) of dacitic composition. Intensely altered. Carries Cpy & Ry.
				Chlorite 10% Clay (montmorillonite) Epidote Calcite
				Magnetite weak Py + Cpy 1% Cpy .1-.2% Cu
224.5-234.5	9.8			- do - Chlorite 20% Epidote 5% Cpy .1-.15% Cu
				Py + Cpy 1%
234.5-244.5	10			234.5-238.5: Hornblende Quartz-Diorite: Grey to dark brown, coarse grained, altered rock
				Hb 5% Chlorite 5% Epidote <1%
				Quartz 15-20% Magnetite 1-2% Cpy .1%
				Py + Cpy .5-.7%

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS — SHEET NO. 4 OF 11 — HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES — STARTED: August 22, 1974 — COMPLETED: Sept. 5/74 — LOGGED BY: E. Cruz

LOCATION: WL - 4 — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
				238.5-244.5: Altered dacite (Hybrid or contaminated rock).
				Magnetite Nil Cpy .15-.2% Cu Py+Cpy 1.5-2%
244.5-255	10			244.5-247.5: - do -
				247.5-254: Medium to coarse grained quartz diorite with inclusions of altered dacite.
				Chlorite 1% Epidote 1% Qtz 5-10%
				Py+Cpy 1% Magnetite <1% Cpy .1% Cu
255-265	10			254-264.5: Green, fine to medium grained, intensely altered dacite with squirts of
				(Hybrid rock) quartz diorite at 261-262 and at 263-264.5.
				Chlorite 15-20% Epidote weak
				Cpy .3% Cu Py+Cpy 2%
				Cpy as dissem. and along fractures.
				Magnetite Nil
265-275	10			264.5-275: Medium to fine grained greenish to dark coloured, finely porphyritic dacite
				Rock is characterized by the presence of rounded to subrounded, fine
				feldspar phenocryst & presence of abundant magnetite.
				Py+Cpy 2-3% Cpy .4-.5% Cu
				Magnetite 5-10% Chlorite 20%

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 5 OF 11 — HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES — STARTED: August 22, 1974 — COMPLETED: Sept. 5/74 — LOGGED BY: E. Cruz

LOCATION: WL - 4 — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
275-285	10			275-277: - do -
				277-283: Coarse grained, dark brownish coloured. Hb - quartz diorite.
				Chlorite 5% Magnetite 3-4% Cpy .2-.3% Cu
				Cpy + Py 1-2% Hb Biotite
				283-285: Green, fine grained, altered dacite (Hybrid rock)
				Epidote Chlorite
				Magnetite Nil Py + Cpy 2% Cpy .2% Cu
285-295	10			285-286: - do -
				286-290.5: Dark brownish to greenish, medium grained biotite bearing dacite grading
				to greenish biotite-poor dacite. Phenocrysts of fine, rounded to
				subrounded plagioclase.
				Biotite >30% Chlorite <10% Cpy .4-.5% Cu as
				Quartz-carbonate stringers with Cpy & Py. disseminations
				Magnetite 1-2%
				290.5-295: Green, medium to fine grained chloritized & epidotized dacite (Hybrid
				rock) weakly magnetic.
				Chlorite 20-25% Epidote 5% Magnetite .5%
				Very few quartz-carbonate stringers.
				Cpy .2-.3% Cu as disseminations Py + Cpy 1.5%

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 6 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E. Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
295-305	10			295-302: Same rock as above becoming finer grained near contact.
				Relatively poor Cpy .1% Cu Py + Cpy .5%
305-315	10			302-315: Grey to pinkish, coarse grained Hb-Qtz diorite.
				Hb 2% Chlorite 2% Magnetite 2%
				Cpy along fractures, quartz stringers and as fine disseminations with
				associated MoS_2 in places.
				Cpy .3-.4% Cu Cpy + Py 1-2%
				Cpy associated with magnetite
315-325	10			315-324: - do - Cpy .3-.4% Cu
				324-326.5: White-greenish coarse grained, chloritic quartz diorite.
				No magnetite Epidote Chlorite
				Cpy relatively poor
325-335	10			326.5-327.5: 1' of very fine, silicified, chilled contact.
				327.5-335: Medium grained greenish black to white coloured altered (Hybrid) dacite
				with inclusions of biotite-bearing feldspar porphyry of dacite composition.
				Abundant magnetite. Relatively good Cpy 0.4-0.5% Cu
				Chlorite 5-10% Biotite 15% Magnetite 3-5%
				Py + Cpy 2-3% MoS_2 negligible amount

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 7 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E. Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
335-345	10			- do -
345-355.5	10			- do -
355.5-366	10			355.5-367: Coarse grained brown-pinkish quartz diorite. Contact at 40°.
				Biotite 30% Chlorite <1% K-spar along fractures
				Quartz 10%
				Cpy dissem., along quartz stringers and along fractures 0.3% Cu
				Magnetite .5-1% Py + Cpy 1-2%
				Hb appears to be altered to biotite.
366-376.5	10			367-372.5: Grey to light coloured, medium grained altered dacite (Hybrid rock)
				with inclusions of dark, medium grained, biotite rich feldspar porphyry.
				Squirts of quartz diorite at 40° from core axis.
				Biotite & chlorite alteration
				Heavy sulfides 0.5% Cu Py + Cpy 2%
376.5-380	3.2			372.5-380: Coarse grained quartz diorite. Same as 355.5-367. Fracturing at 376.5-
				380 with clay along fracture planes at 30° from axis. Kaolinized at
				378-380. Poor cpy.
380-390	10			Greenish to grey, medium-grained altered dacite (Hybrid rock) becoming
				finely porphyritic.
				Cpy .2-.3% Cu Py + Cpy 1-2%

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 8 OF 11 — HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES — STARTED: August 22, 1974 — COMPLETED: Sept. 5/74 — LOGGED BY: E.Cruz

LOCATION: WL - 4 — BEARING: S.88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
390-397	7			Dark coloured, medium grained biotite-bearing feldspar porphyry of
				dacite composition.
				Rounded to subrounded feldspar phenocrysts 35%
				Biotite 50% Chlorite relatively poor
				Cpy .3% Cu Py + Cpy 1-2% Magnetite 2-3%
397-407	10			- do - Relatively poor cpy.
407-417	10			407-410: - do -
				410-412.5: - do - Weak fault
				412.5-417: - do -
417-427	10			- do -
427-437	10			Altered dacite (Hybrid rock) with inclusions of biotite-rich feldspar
				porphyry.
				Cpy .3% Cu Magnetite 1-2% as stringers & dissem.
437-447	10			- do - Cpy .05-.1% Cu
				Magnetite stringers Poor Cpy along fracture planes.
447-457	10			Rock grades to fine to medium grained dark brownish biotite-bearing
				feldspar porphyry of dacite composition.
				Cpy .05-.1% Cu

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 9 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E.Cruz

LOCATION: WL - 4 BEARING: S88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
457-467	10			- do - .05-1% Cu
467-477	10			- do - Fragmental, grading to fine to medium-grained greenish non-porphyritic altered dacite.
				Cpy 0.1-.15% Cu MoS_2 negligible amount
				Chlorite 5-10% Epidote Magnetite
				Py & Cpy along tight fractures
477-487	10			Fine to medium-grained, greenish altered dacite (Hybrid rock), fragmental, up to 482' grading to dark brown biotite-bearing feldspar porphyry
				of dacite composition.
487-497	10			487-496: - do -
497-507	10			496-507: Altered dacite with inclusions of biotite-bearing feldspar porphyry.
507-517	10			Mainly dark brown biotite-bearing dacite with injections of altered dacite.
517-520	3			- do -
520-521	1			- do -
521-527	6			- do -
527-537	10			- do -
537-547	10			Feldspar porphyry of dacite composition. Poor sulfides.
547-557	10			547-557: - do -

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 10 OF 11 HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES STARTED: August 22, 1974 COMPLETED: Sept. 5/74 LOGGED BY: E.Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
557-567	10			Dacite: grey, finer-grained, less porphyritic rock with abundant epidote along fractures. Poor sulfides. Chlorite & epidote alteration.
567-577	10			- do - Poor sulfides.
577-587	10			Feldspar porphyry: Dark coloured medium-grained, porphyritic rock of dacite composition. Outstanding feldspar phenocrysts in dark siliceous matrix. Magnetite 2-3% Poor sulfides
587-597	10			- do - Poor sulfides
597-607	10			- do - Poor sulfides
607-617	10			- do - Poor sulfides
617-627	10			- do -
627-637	10			- do -
637-647	10			- do -
647-657	10			- do - Weak fault at 655.5-656.5
657-667	10			- do - Finer-grained, less porphyritic
667-677	10			- do -
677-687	10			Feldspar porphyry: Dark, medium-grained porphyritic rock of dacite composition. Locally fragmental. Poor sulfides.

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 11 OF 11 — HOLE NO. 74-3

DRILLED BY: NEWMAC INDUSTRIES — STARTED: August 22, 1974 — COMPLETED: Sept. 5/74 — LOGGED BY: E. Cruz

LOCATION: WL - 4 — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 754.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
687-697	10			Dacite: Black, fine-grained, non-porphyritic rock. Poor sulfides.
697-706.5	9.5			Feldspar porphyry: Dark, medium-grained, porphyritic rock of dacite composition. Poor sulfides.
706.5-716.5	10			- do -
716.5-723.5	7			- do -
723.5-726.5	3			- do -
726.5-734.5	8			Quartz diorite: poor sulfides
734.5-744.5	10			- do -
744.5-754.5	10			- do -
				END OF HOLE

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — ERNESTO D. CRUZ

E. D. Cruz

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 1 OF 5 HOLE NO. 74-4

DRILLED BY: NEWMAC INDUSTRIES STARTED: September 11, 1974 COMPLETED: Sept. 16/74 LOGGED BY: E.Cruz

LOCATION: WL - 4 28 N, 156 + 35 E BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 501.5'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
0 0-55				Casing
55-57	1.7			Hybrid (or contaminated rock): Very fine grained, multicoloured (green-black-white)
				intensely altered rock containing abundant chlorite, quartz, clay
				mineral (?), biotite, magnetite.
				Dissem. Py & Cpy 0.5-1% .1-.2% Cu
				Chlorite 30% Biotite 5%
				Feldspar altered to clay
57-60	2.5			- do -
60-67	6.5			- do -
				Cpy 0.2% Cu Magnetite as stringers & dissem.
67-70.5	2			- do - Epidote along fractures, abundant Py 1% Poor Cpy
70.5-71.5	1			- do - Poor cpy
71.5-75	3			- do - Poor cpy
75-85	10			- do - Poor Cpy (.05-.1% Cu) Cpy + Py .5-1%
85-91	5.5			- do - Intensely altered, medium to fine grained non-porphyritic
				brecciated rock of dacite composition. Fragments of less altered
				porphyritic rock (feldspar phenes) in highly altered dacitic matrix.
				Cpy & Py as dissem., along fractures and quartz stringers.
				Cpy .05-.1% Cu

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 2 OF 5 HOLE NO. 74-4

DRILLED BY: NEWMAC INDUSTRIES STARTED: September 11, 1974 COMPLETED: Sept. 16/74 LOGGED BY: E.Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 501.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
				Alteration minerals: Chlorite, epidote, quartz, clay (montmorillonite) (?)
91-101	10			Altered & brecciated biotite-bearing dacite: white-green-dark, fine to medium grained,
				locally porphyritic (feldspar phenos) & biotite-bearing rock.
101-104	2.5			- do - Cpy .1% Cu
104-109	4			- do - intense fracturing at 108-112.
109-110.5	1			- do - Cpy .1% Cu
110.5-116.5	6			- do - Rock is still brecciated & locally porphyritic. Quartz-carbonate stringers
				Cpy, Py with associated magnetite as disseminations.
				Cpy 0.3-0.4% Cu
116.5-123.5	6.8			- do - Cpy .4% Cu Magnetite 2% Py + Cpy 1-2%
123.5-134	10			- do - Cpy .4% Cu Magnetite 2% Py + Cpy 2%
134-139.5	5			- do -
139.5-150	10			- do - Py + Cpy 2% Cpy .3-.4% Cu
150-159.5	9.5			- do -
159.5-165.5	5.5			- do - Py + Cpy < 1% Cpy .1-.2% Cu
165.5-168	2			- do - Rock is still brecciated. Py + Cpy < 1% Cpy .1% Cu
168-177	9			- do -
177-187	9			- do - Py + Cpy 1.5-2% Cpy .2-.3% Cu

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 3 OF 5 HOLE NO. 74-4

DRILLED BY: NEWMAC INDUSTRIES STARTED: September 11, 1974 COMPLETED: Sept. 16/74 LOGGED BY: E.Cruz

LOCATION: WL - 4 BEARING: S 88° W DIP: 45°

ELEVATION: FINAL DEPTH: 501.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
187-197	10			- do - Poor sulfide <1%
197-206	9			- do - Py + Cpy 2% Cpy .3% Cu
206-216	10			- do - Py + Cpy 2% Cpy .3% Cu
216-225	9			- do - Py + Cpy 2% Cpy .3% Cu
225-235	10			- do - Rock is still brecciated Cpy .2% Cu
235-245	10			- do - Cpy .1% Cu
245-255	10			Rock is still altered & brecciated volcanics of dacite composition. Contains white dots
				of feldspars and angular and subrounded inclusions of white siliceous fragments in a
				fine to medium-grained dacitic matrix (porphyritic).
				Py + Cpy <1% Cpy .05-.1% Cu
255-265	10			- do -
265-275	10			- do -
275-277	2			- do -
277-287	10			- do - Kaolinized at 282-287. Poor sulfides Cpy .05% Cu
287-297	10			Weakly brecciated porphyritic dacite containing white siliceous fragments. Kaolinized
				at 293-297. Poor sulfides.
				Py + Cpy <1% Cpy .05-.1% Cu
297-306	9			- do - Fault zone. Fracturing at 50° from axis. Poor sulfides.
				Cpy .05% Cu

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 4 OF 5 — HOLE NO. 74-4

DRILLED BY: NEWMAC INDUSTRIES — STARTED: September 11, 1974 — COMPLETED: Sept. 16/74 — LOGGED BY: E.Cruz

LOCATION: WL - 4 — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 501.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
306-314.5	8.5			- do - Less altered. Poor sulfides. Weakly magnetic.
314.5-324.5	10			- do - Poor sulfides. Magnetite 1-2%
324.5-334	9.5			- do -
334-337	3			- do -
337-346.5	9.5			- do -
346.5-352.5	4			- do - Intensely fractured with gouge material at 349-355.
352.5-360	7			Intensely silicified porphyritic dacite. Specks of Cpy & Py
				Py + Cpy < 1% Cpy .05-.1% Cu
360-370	10			- do -
370-377	6.5			- do - Decreasing degree of silicification.
				Py + Cpy < 1% Cpy .05% Cu
				Magnetite 0.5-1%
377-385.5	8			- do - Cpy .05% Cu
385.5-395.5	10			- do - Cpy .05% Cu
395.5-405.5	10			- do - Cpy .05% Cu No magnetite. Contains few siliceous fragments.
405.5-409	2.5			- do - Contains few siliceous fragments up to 407'. Poor sulfides. Non-
				magnetic, moderately fractured at 407-411.5.

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 5 OF 5 — HOLE NO. 74-4

DRILLED BY: NEWMAC INDUSTRIES — STARTED: September 11, 1974 — COMPLETED: Sept. 16/74 — LOGGED BY: E.Cruz

LOCATION: WL - 4 — BEARING: S 88° W — DIP: 45°

ELEVATION: — FINAL DEPTH: 501.5

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
411.5-420.5	8			Same as above up to 415.5. Increasingly chloritized from 415.5-420.5. Poor sulfides.
				Cpy .05% Cu
420.5-430	9			Rock is still altered porphyritic dacite. Chloritization and silicification along fractures. Few siliceous fragments. Poor sulfides.
				Cpy .05-.1% Cu
430-437	10			Rock is brecciated and altered dacite (Hybrid or contaminated rock), with apparent squirts of quartz-dioritic rock.
				Py + Cpy 1-2% Cpy .1% Cu Magnetic
437-447	10			- do - Increasingly more brecciated with apparent increase of quzrtz-dioritic squirts.
				Py + Cpy .5-1% Cpy .05-.1% Cu
447-457	10			- do -
457-467	10			- do - Py + Cpy 2% Cpy .1% Cu
				Magnetic Chlorite 2%
467-477	10			- do -
477-487	10			- do -
487-497	10			- do -
497-501.5	4.5			- do - Cpy .05-.1% Cu
				END OF HOLE

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — ERNESTO D. CRUZ

E.D. Cruz

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DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 1 OF HOLE NO. 74-5

DRILLED BY: NEWMAC INDUSTRIES STARTED: Sept. 18, 1974 COMPLETED: Sept. 28/74 LOGGED BY: E. Cruz

LOCATION: WL - 5 28 N, 167 E BEARING: S 65° E DIP: 45°

ELEVATION: FINAL DEPTH: 383'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
0-20				Casing
20-25	0.8			Dacite: Fine to medium-grained buff coloured, chloritized siliceous volcanics.
				Contains Py along chloritized fractures, & Cpy specks, disseminated
				magnetite. Abundant quartz - >10%. Plagioclase as laths & subrounded
				phenes in some sections.
				Chlorite 2-5% Mafics .5-1%
25-27	2			- do -
27-29	2			- do -
29-39	10			- do -
39-43	4			- do -
43-47	3.5			- do -
47-53.5	5			- do -
53.5-63	9.5			- do -
63-67.5	4			- do -
67.5-70	2.5			- do -
70-75.5	5.5			- do - Cpy & Py along quartz-chlorite stringers
				Cpy .05-.1% Cu Py + Cpy <1%
75.5-85.5	10			- do -

DIAMOND DRILL RECORD

PROPERTY WL CLAIMS SHEET NO. 2 OF HOLE NO. 74-5

DRILLED BY: NEWMAC INDUSTRIES STARTED: September 18, 1974 COMPLETED: Sept. 28/74 LOGGED BY: E.Cruz

LOCATION: WL - 5 BEARING: S 65° E DIP: 45°

ELEVATION: FINAL DEPTH: 383'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
85.5-90	4.5			- do -
90-96	6			- do -
96-106	10			Dacite Relative increase in quartz and finer-grained.
106-110.5	4.5			- do -
110.5-117	6.5			- do -
117-120	3			- do -
120-127	7			Same rock as above with increasing degree of alteration (chlorite - epidote - clay (?)).
				Py + Cpy <1% Cpy .05-.1% Cu
				Altered sections are non-magnetic.
127-130	2.5			- do -
130-137	5			- do -
137-147	10			- do -
147-157	10			- do -
157-165.5	8.5			- do -
165.5-175.5	9.5			- do - Py + Cpy <1% Cpy .05% Cu Weakly magnetic
				Fault at 169-170
175.5-179	3.5			- do -
179-183.5	3			- do - Fractured core at 183.5-184.

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 3 OF ____ HOLE NO. 74-5

DRILLED BY: NEWMAC INDUSTRIES — STARTED: September 18, 1974 — COMPLETED: Sept. 28/74 — LOGGED BY: E.Cruz

LOCATION: WL - 5 — BEARING: S 65° E — DIP: 45°

ELEVATION: ____ — FINAL DEPTH: 383'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
183.5-188	5 4			- do -
188.5-192	3.5			- do -
192-202	10			- do -
202-204	2			- do -
204-212	2			- do - Core tube did not lock, lost 6' of core
212-222	10			Rock is still siliceous volcanics of dacitic composition. Epidote-chlorite alteration along fractures. Poor sulfides <1% Magnetite 1%
222-227	5			- do -
227-237	10			- do -
237-243	6			- do -
243-247	4			- do -
247-253	6			Green, fine to medium grained altered dacite with apparent squirts of quartz-diorite. Poor sulfides <1% Cpy .05-.1% Cu
253-263	10			- do -
263-273	10			- do - Chloritized & epidotized fractures. Localized Cpy along few fractures associated with Py. Py + Cpy 1% Cpy .05-.1% Cu
273-283	10			- do -

DIAMOND DRILL RECORD

PROPERTY: WL CLAIMS — SHEET NO. 4 OF ... HOLE NO. 74-5

DRILLED BY: NEWMAC INDUSTRIES — STARTED: September 18, 1974 — COMPLETED: Sept. 28/74 — LOGGED BY: E.Cruz

LOCATION: WL - 5 — BEARING: S 65° E — DIP: 45°

ELEVATION: — FINAL DEPTH: 383'

DEPTH	CORE RECOVERED	% REC.	INTERSECTION ANGLE	DESCRIPTION
283-287	4			- do -
287-297	10			- do -
297-307	10			- do -
307-317	10			- do - No sulfides, no magnetite
317-322	5			- do - Finely fragmental, no sulfides, no magnetite.
322-332	10			- do - Py + Cpy < 1% Cpy .05% Cu
332-337	5			- do - Fine fragments of buff coloured siliceous rock.
				Py + Cpy < 1% Cpy .05% Cu
337-347	6.5			- do - Lost 3.5' of core. Core tube did not lock.
347-353	6			- do -
353-357	4			- do -
357-367	10			- do -
367-377	10			- do -
377-383	1			- do - Core tube did not lock. Lost 5' of core.
				END OF HOLE

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
ERNESTO D. 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 St.,
Vancouver 2, 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 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 of 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 ~~4~~ 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 ~~4~~ 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 ~~4(L)~~ 3(g) of Exhibit "A". Jmm

3.5. In determining the amount of hourly time for which Contractor is to be compensated, it is agreed that such day 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 the same drilling conditions which existed when operations on a footage basis were suspended.

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 therof in any manner dealt with hereunder. Company shall have no direction or control of the Contractor ~~it~~ or its employees and agents except in the Jmm 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 superindendence 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. ~~DEPOSIT~~

6.1. The Company agrees, on signing this Agreement ~~to deposit~~ in the ___ Bank of ___ in the City of ___ the sum of $ ___ to the joint account of the Company and the Contractor, to be held by the Bank for the purposes of this contract. It is understood that the above $ ___ can be used only to apply on the final payment in full to the Contractor. All other payments to be made from separate funds. Until the above deposit is made, the Contractor shall be under no obligation in connection with the Contract.

7. 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:

7.1 Workmen's Compensation insurance in full compliance with all applicable Provincial laws and regulations.

7.2. Employer's liability insurance in the minimum limits of $100,000.00 per accident covering injury or death to any employee with may be outside the scope of the workmen's compensation statute of the Province in which the work is performed.

7.3. 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 minimum limits of $250,000.00 for property damage.

7.4 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.

7.5 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.

8. 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 ommissions 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 indemnify and

save contractor harmless from any liability for injury to or death of persons or damage to property (including, but not limited to, injury to 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 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 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.

9. 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.

10. 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*

11. 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 a 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.

12. 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.

13. 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 eompletion 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.

14. 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.

15. 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.*

16. 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.

17. COMPANY REPRESENTATIVE

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

18. 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.

19. RIGHT TO VACATE

Upon completion of the work herein contracted to be 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.

20. 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 operations conducted hereunder shall supercede the provisions of this Agreement.

21. FORCE MAJURE:

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

21.1 War, invasion, insurrection, riot, the order of or regulations of any civil or military authority, or by strikes, lockouts, or labour disputes, whether in or in the neighborhood of the Contractors plant or of that of any supplier of materials necessary for the completion of the contract.

21.2 The inability to obtain essential materials and supplies due to priority restriction.

21.3 The inability to secure labour due to the restrictions or causes beyond the Contractors 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.

22. 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.

23. 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 2, 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 18th. day of July A.D., 1974.

WITNESSES:

OPERATOR: Explorem Minerals Ltd.

Evelyn F. Gower

BY: C. C. Kamm

WITNESS:

CONTRACTOR: Nemmco Industries Ltd.

Evelyn F. Gower

By: James MacNeill

Exhibit "A"

BID SHEET AND JOB SPECIFICATIONS

NEWMAC INDUSTRIES LTD.
6190 Meadowland Crescent,
Kamloops, B.C.
Phone: 573-5455

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.

James MacNeill

---

1. COMMENCEMENT DATE

Contractor agrees to commence actual moving in operations at the above location on or before August 1st, 1974.

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 _____ 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 1,000 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 1,000 feet are desire, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencment 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

Depth Intervals	B.Q. size
1 - 500 ft.	$ 7.00 per ft.
500 - 1000 ft.	$ 7.00 per foot.

(b) Casing of Overburden

Depth Interval	
0 - 50 ft.	$ 7.00
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, bore hole 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) $ 7.00 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)	$ 7.00 per man hour.
Drill, pump and service vehicle	_____ per drill hour.
Tractor - operating	$15.00 per hour.
non operating	no charge per hour.

(e) Testing of borehole.

The Contractor, when instructed so to do, shall take any clinometer dip tests desired by the Client. The Contractor's charge for such test shall be at the rate of $7.00 per man hour.

(f) Transportation and Moves.

1. It is agreed that the moving of drill and camp equipment, supplies and personnel, from the Contractor's warehouse, to the intial drill site, between drill sites, and return from the final drill site to the Contractor's warehouse shall be charged to EXPLORAM MINERALS LTD. at Field Cost, plus 10%. Such costs shall include transportation, securing timber, site preparation, setting up, laying waterline and building camps.

2. Moving shall be interpreted to include tearing down, dismantling machinery, moving, securing timber, transportation, site preparation and setting up.

3. It is understood and agreed that should tractors be used for moving, tractor rental at the rate of $15.00 per hour will apply.

4. Core boxes will be provided by Contractor. Contractors rates for core boxes on site:

Nominal core length	Core size	Rate
25 ft. boxes	BQ 1 7/16	Invoiced Price.

5. It is agreed that, at the completion of the present active drilling program, the Company may retain the Contractor's drilling equipment at the drill area for a rental of $1500.00 per month, per drilling unit. The standby rental charge will cease to apply upon commencement of a continuous drilling program, or on the giving of a written notice to the Contractor by the Company that the drilling equipment is no longer required.

(g) Equipment Repairs

If it becomes necessary to shut down the Contractor's equipment for repairs while the Contractor is performing work on an hourly basis, Contractor shall be allowed compensation for such repairs at the appropriate rate. The number of hours for which Contractor is to be compensated shall be limited as follows:

For any one repair job - no charge
Total hours per month _____.

(h) Special Agreements.

Contractor will supply a 1010 case cat to move drill and build a limited amount of road to move drill to drill site. Cost of cat will be at $15.00 per working hour plus operator at $7.00 per working hour with no standby charges for cat or operator.

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

NEWMAC INDUSTRIES LTD.

By: James MacNeill
James MacNeill

Dated July 15th, 1974.
at Kamloops, B.C.

PART E.

Cost Statement of Diamond Drilling

with Daily Drilling Reports

NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455 CONTRACT DIAMOND DRILLING KAMLOOPS, B.C.
6190 Meadowland Cres.

RECEIVED

SEP 9 1974

EXPLORAM MINERALS LTD.
VANCOUVER OFFICE

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

Mr. C. Kamm

This is a summary of our daily drill reports from the 26 th. of July to the 31 st. of August 1974.

July 26 th. and 27 th.	$ 266.20		
July 28 th. and 29 th.	455.40		
July 30 th.	422.40		
July 31 st.	404.80		
Aug. 1 st.	392.00		
Aug. 2 nd.	399.00		
Aug. 2	450.80		
Aug. 3	354.90		
Aug. 3	350.00		
Aug. 4	488.40		
Aug. 4	581.00		
Aug. 5	713.10		
Aug. 5	714.00		
Aug. 6	478.30		
Aug. 6	504.00		
Aug. 7	266.00		
Aug. 7	342.40		
Aug. 8	161.90		
Aug. 11	182.00		
Aug. 12	344.40		
Aug. 13	679.20		
Aug. 14	~~540.23~~	← 550.20	
Aug. 15	562.60		
Aug. 16	592.00		
Aug. 17	~~429.00~~	← 429.80	
Aug. 18	817.40		
Aug. 19	539.00		
DDH 74-1, 74-2 Aug. 20	542.70		$2,783.00
Aug. 21	425.70		
Aug. 22	341.50		
Aug. 25	350.00		
Aug. 26	478.80		
Aug. 27	~~458.89~~	← 485.80	
DDH 74-3 Aug. 28	247.80		
Aug. 29	562.60		
Aug. 30	567.00		
Aug, 31	567.00		
	~~16771.49~~		16809.20
Core box charges as per invoice	239.80		
Freight for core boxes	28.67		
10% of $318.47 —	31.84		
Total	~~$17101.71~~		17,159.51

James MacNeill

DAILY DRILLING REPORT

NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Cariboo Gold LOCATION Horsefly BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Aug 21/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

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

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 T. Yeomans HRS. 9 S .....
RUNNER J. MacRae HRS. 9 S .....
RUNNER ..... HRS. ..... S .....

HELPER D. Haughton HRS. 9 S .....
HELPER R. Watson HRS. 9 S .....
HELPER ..... HRS. ..... S .....

REMARKS

Mobilize to hole 74-3.
Stuck Crossing Swamp had to cordroy road
4 men 9 hrs
Cat work 9 hrs.

FOREMAN .....

ENGINEER G. A. Gunn

NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

DAILY DRILLING REPORT

COMPANY [illegible] LOCATION Horsefly BC

SHIFT—FROM .... a.m. To .... p.m. DATE Aug 22

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 0

DEPTH END OF SHIFT 15'

FOOTAGE DRILLED 15'

CORE RECOVERED 0

NUMBER OF RUNS ....

ROCK FORMATION ....

FEET OF CASING 15'

TYPE OF CASING BW

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 [illegible] HRS. 8 S .... HELPER S. Thorpe HRS. 8 S ....

RUNNER [illegible] HRS. 8 S .... HELPER R. Walton HRS. 8 S ....

RUNNER .... HRS. .... S .... HELPER .... HRS. .... S ....

REMARKS Finished timbering road to site moved in drill & set up. Run in casing to 15 ft.

4 men 5 hrs
lab work 5 hrs

FOREMAN .... ENGINEER [illegible]

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploram LOCATION Horse Fly

SHIFT—FROM .... a.m. To .... p.m. DATE ... 25/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 15

DEPTH END OF SHIFT 65

FOOTAGE DRILLED 50

CORE RECOVERED 50

NUMBER OF RUNS

ROCK FORMATION

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 S. Yeoman HRS. 8 S ....

RUNNER .... HRS. .... S ....

RUNNER .... HRS. .... S ....

HELPER S. Graydon HRS. 8 S ....

HELPER .... HRS. .... S ....

HELPER .... HRS. .... S ....

REMARKS

FOREMAN ....

ENGINEER E. A. Grey

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, 342 HARTVALE, KAMLOOPS, B.C.

COMPANY Explorama LOCATION Aug 26/74

SHIFT—FROM ..... a.m. To ..... p.m. ~~DATE~~ Horsefly BC

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 65

DEPTH END OF SHIFT 129

FOOTAGE DRILLED 64

CORE RECOVERED 64

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER S. Greene HRS. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S. Clayden HRS. 8 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS Pull rods to change bit
had to ream Cave for 2 hrs.

FOREMAN .....

ENGINEER E. B. Gent

DAILY DRILLING REPORT

NEWMAC INDUSTRIES LTD.
TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explorams LOCATION Horse Hy BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Aug 27/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 129
DEPTH END OF SHIFT 194
FOOTAGE DRILLED 65'
CORE RECOVERED 65'
NUMBER OF RUNS
ROCK FORMATION Sand seam 10 ft.

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ON OFF

TOTAL BIT FOOTAGE No.

RUNNER Sigvaman HRS. 8 S
RUNNER HRS. S
RUNNER HRS. S

HELPER Johnston HRS. 8 S
HELPER HRS. S
HELPER HRS. S

REMARKS Hit Sand fault, about 10 ft. had to wash and clean hole for 2 hrs.

FOREMAN

ENGINEER E.A. Cyr

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Bx Resources LOCATION Horsefly BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE June 22

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 194

DEPTH END OF SHIFT 225

FOOTAGE DRILLED 31

CORE RECOVERED 31

NUMBER OF RUNS

ROCK FORMATION

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 Siyarema HRS. 8 S

RUNNER ..... HRS. ..... S

RUNNER ..... HRS. ..... S

HELPER S Hayden HRS. 8 S

HELPER ..... HRS. ..... S

HELPER ..... HRS. ..... S

REMARKS Pull rods & change bit
Ream & Wash hole 2 hrs.

FOREMAN

ENGINEER C. D. Gray

DAILY DRILLING REPORT

NEWMAC INDUSTRIES LTD.
TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploroms LOCATION Horse Fly BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Aug 29/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 225'
DEPTH END OF SHIFT 295'
FOOTAGE DRILLED 70
CORE RECOVERED 70
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER S. Yaremen HRS. 8 S
RUNNER ..... HRS. ..... S
RUNNER ..... HRS. ..... S

HELPER S. Graydon HRS. 8 S
HELPER ..... HRS. ..... S
HELPER ..... HRS. ..... S

REMARKS

Walk cat back to camp and build site for hole 400 ft from hole 74-2 Est work 3 hrs.

FOREMAN

ENGINEER E. A. Graf

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploram LOCATION Horsefly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Aug 20

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 295'
DEPTH END OF SHIFT 376
FOOTAGE DRILLED 81
CORE RECOVERED 81
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Sycamore HRS. 8 S
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S. Kingdon HRS. 8 S
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN

ENGINEER E. A. Grist

DAILY DRILLING REPORT

NEWMAC INDUSTRIES LTD.
TELEPHONE: (604) 573-5455
P.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Kaplan LOCATION Horse Fly BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE July 31/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 376
DEPTH END OF SHIFT 457
FOOTAGE DRILLED 81
CORE RECOVERED 81
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER S. Yeoman HRS. 8 S ..... HELPER B. Chapelow HRS. 8 S .....
RUNNER ..... HRS. ..... S ..... HELPER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S ..... HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN ..... ENGINEER K. A. Grant

NEWMAC INDUSTRIES LTD.

TELEPHONE (604) 573-5455 — CONTRACT DIAMOND DRILLING — MAIL- KAMLOOPS, B.C.
6190 Meadowland Cres.

Final summary of daily charges for EXPLORAN MINERALS LTD. ON COMPLETION of drilling contract on the Horsefly area property.

DDH 74-3 cont'd	Sept. 1	------	$441.00
	sept. 2	------	$289.80
	" 3	------	$696.50
	" 4	------	$546.00
	" 5	------	$505.00
	" 10	------	$512.40
	" 11	------	~~$516.20~~ 446.20
	" 12	------	$427.00
	" 13	------	$714.00
	" 13	------	$497.00
DDH 74-4	" 14	------	$700.00
	" 15	------	$490.80
	" 16	------	$466.80
	" 17	------	$545.40
	" 18	------	$545.80
DDH 74-5	" 19	------	$420.00
	" 23	------	$364.00
	" 24	------	$455.37
	" 25	------	$488.60
	" 26	------	$512.40
	" 27	------	$325.40
	" 28	------	$485.10
	" 29	------	$592.70
	" 30	------	$572.00
			~~$11962.97~~ 10,997.37

46 core boxes (for a total of 126)

46x $3.62	$165.52	
Plus 10 %	16.50	
	$182.02	$182.02
		~~$11249.39~~ 11,179.39

Rapid CCK 16 Oct '74

Note: Holes 74-1&2 on HS claims
Holes 74-3,4,&5 on HL claims

Drill Hrs. &
~~No. of Days~~

Cost

74-3	402620 +
	44100 +
	26980 +
	69650 +
	54600 +
	30500 +
	31240 +
	31240 −
	630450 *
74-4	31240 +
	44620 +
	42700 +
	71400 +
	49700 +
	70000 +
	45080 +
	46690 +
	401430 *
74-5	34540 +
	34580 +
	42000 +
	36400 +
	45537 +
	48860 +
	51240 +
	32340 +
	48510 +
	39270 +
	57200 +
	470477 *

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

DAILY DRILLING REPORT

COMPANY Explorations LOCATION Hedley BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 7, 1976

HOLE NO. 76-3 ANGLE -45° SIZE BQ DRILL No. .....

DEPTH START OF SHIFT 457

DEPTH END OF SHIFT 520

FOOTAGE DRILLED 63

CORE RECOVERED 63

NUMBER OF RUNS .....

ROCK FORMATION .....

MATERIAL & CHEMICALS, MUD MIXING .....

BITS USED IN OVERBURN NO. .....

TYPE .....

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 .....

TIME LOSS & DELAY

MAINTENANCE .....

REPAIR .....

WATER .....

AIR .....

FISHING .....

WASHING & CLEANING HOLE .....

STANDBY .....

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER A. Yonemura HRS. 8 S .....

RUNNER ..... HRS. ..... S .....

RUNNER ..... HRS. ..... S .....

HELPER S. Haydon HRS. 8 S .....

HELPER ..... HRS. ..... S .....

HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN .....

ENGINEER E. M. Cruz

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explorams LOCATION Tose Fly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 2/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 520

DEPTH END OF SHIFT 557

FOOTAGE DRILLED 37 ft

CORE RECOVERED .....

NUMBER OF RUNS .....

ROCK FORMATION .....

.....

.....

.....

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 S Yarmer HRS. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S Hayden HRS. 8 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS Pulled rods to change bit
and Wash hole 3 hrs.

FOREMAN .....

ENGINEER E. A. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.
TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explosams LOCATION Horsefly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Aug 3/7

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 557'
DEPTH END OF SHIFT 656.5'
FOOTAGE DRILLED 99.5'
CORE RECOVERED 99.5'
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER L Lyasoma HRS. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER A Bragstad HRS. 8 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN .....

ENGINEER E. A. Carey

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Esplanade LOCATION Hazelton BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 4/74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 656.5'

DEPTH END OF SHIFT 734.5'

FOOTAGE DRILLED 78

CORE RECOVERED 78

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER A Yeroma HRS. 2 S

RUNNER ..... HRS. ..... S

RUNNER ..... HRS. ..... S

HELPER A Staughton HRS. 8 S

HELPER ..... HRS. ..... S

HELPER ..... HRS. ..... S

REMARKS

FOREMAN

ENGINEER E. A. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explorer LOCATION Hanaly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 5 - 74

HOLE NO. 74-3 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 734.5'
DEPTH END OF SHIFT 754.5'
FOOTAGE DRILLED 20
CORE RECOVERED 20
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Sjaarda HRS. 8 S
RUNNER ..... HRS. ..... S
RUNNER ..... HRS. ..... S

HELPER L Brayden HRS. 8 S
HELPER ..... HRS. ..... S
HELPER ..... HRS. ..... S

REMARKS Hole Shut down. Tore down Set to move to hole 74-4
2 men 6 hrs.
Cat work to build road to 74.4. 3 hrs.
3 hrs cleaning slash 1 Man.

FOREMAN .....

ENGINEER E. A. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploram LOCATION Okanagan Mtn BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 10 / 74

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

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

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 Laporte HRS. 8 S .....
RUNNER Hillaire HRS. 8 S .....
RUNNER ..... HRS. ..... S .....

HELPER Brayton HRS. 8 S .....
HELPER R Dieterer HRS. 8 S .....
HELPER ..... HRS. ..... S .....

REMARKS Moved + Set up at hole 74-4, 4 men 8 hrs. Had trouble moving equipment through bog on acct of heavy rain fall. Cat-work 4 hrs.

FOREMAN .....

ENGINEER E. A. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Kaplan LOCATION Horse fly BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 11 / 74

HOLE NO. 74-4 ANGLE -75° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 0

DEPTH END OF SHIFT 43

FOOTAGE DRILLED 43

CORE RECOVERED C

NUMBER OF RUNS

ROCK FORMATION

Run in Casing 43 ft

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 Sylvanus HRS. 8 S

RUNNER ..... HRS. ..... S

RUNNER ..... HRS. ..... S

HELPER J Hayden HRS. 8 S

HELPER ..... HRS. ..... S

HELPER ..... HRS. ..... S

REMARKS

move cat to drill site & return to fix main Road mud holes (Rain fall 4 inches bogged on main road

Cat work this.

FOREMAN

ENGINEER E. A. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explogam LOCATION Horse Fly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 12/74

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 43

DEPTH END OF SHIFT 104

FOOTAGE DRILLED 61

CORE RECOVERED 49

NUMBER OF RUNS

ROCK FORMATION

Run Casing to 55-ft

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 Sigurman HRS. 8 S

RUNNER ..... HRS. ..... S

RUNNER ..... HRS. ..... S

HELPER S Hampton HRS. 8 S

HELPER ..... HRS. ..... S

HELPER ..... HRS. ..... S

REMARKS

Tricone Casing to 55-ft Pulled Casing and reamed hole to 55 ft. Cored from 55 - 104

FOREMAN

ENGINEER E. A. Gray

DAILY DRILLING REPORT

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COMPANY Kaplan Corp. LOCATION Hope Hy BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 13/24

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 104

DEPTH END OF SHIFT 206

FOOTAGE DRILLED 102

CORE RECOVERED 102

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER S. Yeoman HRS. 8 S .....

RUNNER ..... HRS. ..... S .....

RUNNER ..... HRS. ..... S .....

HELPER S. Hampton HRS. 8 S .....

HELPER ..... HRS. ..... S .....

HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN .....

ENGINEER E. A. Gray

DAILY DRILLING REPORT

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R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploration LOCATION Sept 13/74

SHIFT—FROM ..... a.m. To ..... p.m. DATE Horse fly

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 206

DEPTH END OF SHIFT 277

FOOTAGE DRILLED 71

CORE RECOVERED 71

NUMBER OF RUNS

ROCK FORMATION

FEET OF CASING

TYPE OF CASING

NEW ..... USED .....

MATERIAL & CHEMICALS, MUD MIXING

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. Espenant~~ HRS. 8 S

RUNNER J. MacNeil HRS. 8 S

RUNNER ..... HRS. ..... S

HELPER ~~D. Hartman~~ HRS. 8 S

HELPER R. Watson HRS. 8 S

HELPER ..... HRS. ..... S

REMARKS

FOREMAN

ENGINEER E. D. Grant

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DAILY DRILLING REPORT

COMPANY Exploram LOCATION Hedley, BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 14/71

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 277

DEPTH END OF SHIFT 377

FOOTAGE DRILLED 100

CORE RECOVERED 100

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Superman HRS. 8 S

RUNNER ..... HRS. ..... S

RUNNER ..... HRS. ..... S

HELPER S. Kingdon HRS. 8 S

HELPER ..... HRS. ..... S

HELPER ..... HRS. ..... S

REMARKS

FOREMAN

ENGINEER E. A. Cruz

DAILY DRILLING REPORT

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COMPANY Exploram LOCATION Harvey Pass

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 15/74

HOLE NO. 74-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 577

DEPTH END OF SHIFT 437

FOOTAGE DRILLED 60

CORE RECOVERED 60

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Syverson HRS. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S. Snyder HRS. 8 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS

Pull rods to change bit. Had to wash
Ondream core 3 hrs.

FOREMAN .....

ENGINEER E. A. Cruz

DAILY DRILLING REPORT

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COMPANY Exploram LOCATION Hemlo-Hly Bl-

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 16/74

HOLE NO. Tet-4 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 437
DEPTH END OF SHIFT 501.5'
FOOTAGE DRILLED 64.5'
CORE RECOVERED 64.5'
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Lyderman HRS. 8 S
RUNNER ..... HRS. ..... S
RUNNER ..... HRS. ..... S

HELPER S. Brayton HRS. 8 S
HELPER ..... HRS. ..... S
HELPER ..... HRS. ..... S

REMARKS
had to move Supplie Pump twice to
Setup water
1 hr. 2 men.

FOREMAN .....

ENGINEER E. A. Cruz

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

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R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Esplanade LOCATION Hazelton B.C.

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 17/76

HOLE NO. ..... ANGLE ..... SIZE ..... DRILL No. .....

DEPTH START OF SHIFT .....

DEPTH END OF SHIFT .....

FOOTAGE DRILLED .....

CORE RECOVERED .....

NUMBER OF RUNS .....

ROCK FORMATION .....

.....

.....

.....

FEET OF CASING .....

TYPE OF CASING .....

NO. ..... 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 Esplanade HRS. 8 S .....
RUNNER R. Walters HRS. 8 S .....
RUNNER ..... HRS. ..... S .....

HELPER E. Traynor HRS. 8 S .....
HELPER J. MacLeod HRS. 8 S .....
HELPER ..... HRS. ..... S .....

REMARKS pulled rods and mobilized to hole 74.5'.
4 men 8 hrs.
Cat work moving road work + site building 6 hrs.

FOREMAN .....

ENGINEER E. A. Carey

DAILY DRILLING REPORT

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COMPANY Boplan LOCATION Hoyaffy BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 18/74

HOLE NO. 74-5 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 0

DEPTH END OF SHIFT 45'

FOOTAGE DRILLED 45'

CORE RECOVERED 30

NUMBER OF RUNS

ROCK FORMATION

Ryan in Casing to 25' ft.

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ON OFF

TOTAL BIT FOOTAGE No.

RUNNER ~~S Glynn~~ HRS. S

RUNNER S Epstein HRS. 8 S

RUNNER HRS. S

HELPER HRS. S

HELPER S Gaydon HRS. 8 S

HELPER HRS. S

REMARKS

Finished Setting up 2 hrs. 3 men
Ryan casing & cored to 45'

FOREMAN

ENGINEER C. A. Gray

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DAILY DRILLING REPORT

COMPANY Gaplanar LOCATION Sept 19/74

SHIFT—FROM ..... a.m. To ..... p.m. ~~DATE~~ Heavy Eq

HOLE NO. 74-5 ANGLE -45° SIZE E Q DRILL No. 1

DEPTH START OF SHIFT 45'

DEPTH END OF SHIFT 105'

FOOTAGE DRILLED 60

CORE RECOVERED 60

NUMBER OF RUNS

ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER Syverson HRS. 2 S .....

RUNNER ..... HRS. ..... S .....

RUNNER ..... HRS. ..... S .....

HELPER S Gregoire HRS. 2 S .....

HELPER ..... HRS. ..... S .....

HELPER ..... HRS. ..... S .....

REMARKS

FOREMAN .....

ENGINEER E. A. Gray

DAILY DRILLING REPORT

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R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Kaplan LOCATION Hoyaulay BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 28/74

HOLE NO. 74-5 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 105'
DEPTH END OF SHIFT 157
FOOTAGE DRILLED 52
CORE RECOVERED 52
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

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

TIME LOSS & DELAY

MAINTENANCE
REPAIR
WATER
AIR
FISHING
WASHING & CLEANING HOLE
STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER J. MacNeil HRS. 8 S ..... HELPER S. Hodgson HRS. 8 S .....
RUNNER ..... HRS. ..... S ..... HELPER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S ..... HELPER ..... HRS. ..... S .....

REMARKS Lost water return at 60 ft.

FOREMAN ..... ENGINEER E. H. Cruise

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DAILY DRILLING REPORT

COMPANY Kaiser LOCATION Hazelton BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 24/74

HOLE NO. 74-5 ANGLE — 45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 157
DEPTH END OF SHIFT 181
FOOTAGE DRILLED 24
CORE RECOVERED 24
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

FEET OF CASING
TYPE OF CASING
NQW ..... USED .....

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. 8 S
RUNNER ..... HRS. ..... S
RUNNER ..... HRS. ..... S

HELPER S Hayden HRS. 8 S
HELPER ..... HRS. ..... S
HELPER ..... HRS. ..... S

REMARKS Pulled rods to change bit and could not get back down hole. Cave on hole and water running out fracture at 60 ft, caused new bit to burn. 2 men reaming 5 hrs.

FOREMAN .....

ENGINEER E. A. Carey

DAILY DRILLING REPORT

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COMPANY Exploromet LOCATION Hedley BC

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 05/74

HOLE NO. 74-5 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 181

DEPTH END OF SHIFT 202

FOOTAGE DRILLED 21

CORE RECOVERED 21 + Casing 40 ft

NUMBER OF RUNS

ROCK FORMATION total drilled 61 ft.

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.

TYPE

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

TIME LOSS & DELAY

MAINTENANCE

REPAIR

WATER

AIR

FISHING

WASHING & CLEANING HOLE

STANDBY

BIT No. ..... ON ..... OFF .....

TOTAL BIT FOOTAGE ..... No. .....

RUNNER J. MacNeil HRS. 12 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S. Shaylor HRS. 12 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS Pulled casing and put on Tricone Reamed hole to 65 ft. 5 ft past lost water Return. Pulled casing and put on Shoe Reruns to 65 ft. ~~Tried~~ showered rods and reamed and washed hole to 181 ft. Cored to 202 ft. Also reaming & washing rods down.

FOREMAN ..... ENGINEER E. A. Cruz

DAILY DRILLING REPORT

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COMPANY Exploram LOCATION Hagar Hy B.C.

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 26/74

HOLE NO. 74-5 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 202

DEPTH END OF SHIFT 273

FOOTAGE DRILLED 71

CORE RECOVERED 71

NUMBER OF RUNS

ROCK FORMATION

FEET OF CASING

TYPE OF CASING

NEW ..... USED .....

MATERIAL & CHEMICALS, MUD MIXING

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. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER D. Strydo HRS. 8 S .....
HELPER R. Watters HRS. 8 S .....
HELPER ..... HRS. ..... S .....

REMARKS Water Supplie short.
2 hrs moving Supplie pump from hole to hole

FOREMAN .....

ENGINEER E. D. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

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COMPANY Explorum LOCATION Hyraffly B.C.

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 27

HOLE NO. 745 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 273

DEPTH END OF SHIFT 317

FOOTAGE DRILLED 44

CORE RECOVERED .....

NUMBER OF RUNS .....

ROCK FORMATION .....

.....

.....

.....

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. MacNeil HRS. 8 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER S. Snyder HRS. 8 S .....
HELPER ..... HRS. ..... S .....
HELPER ..... HRS. ..... S .....

REMARKS Water Supply Problems.
2 hrs moving Pumps.

FOREMAN .....

ENGINEER E. M. Gray

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.
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R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explosam LOCATION Horsefly

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 28

HOLE NO. 74-5 ANGLE -45° SIZE BQ DRILL No. 1

DEPTH START OF SHIFT 317
DEPTH END OF SHIFT 383
FOOTAGE DRILLED 66
CORE RECOVERED 66
NUMBER OF RUNS
ROCK FORMATION

MATERIAL & CHEMICALS, MUD MIXING

BITS USED IN OVERBURN NO.
TYPE

FEET OF CASING
TYPE OF CASING
NO. ..... USED .....

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 F. MacNeil HRS. 8 S
RUNNER ..... HRS. ..... S
RUNNER ..... HRS. ..... S

HELPER L. Grayston HRS. 8 S
HELPER ..... HRS. ..... S
HELPER ..... HRS. ..... S

REMARKS Pulled rods, change bit.
Ream + wash hole 1 hr. 3 man.
Move pump 1 hr.

FOREMAN .....

ENGINEER E. A. Cruz

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Exploraman LOCATION Hanceby B.C.

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 29/74

HOLE NO. ..... ANGLE ..... SIZE EQ DRILL No. 1

DEPTH START OF SHIFT .....

DEPTH END OF SHIFT .....

FOOTAGE DRILLED .....

CORE RECOVERED .....

NUMBER OF RUNS .....

ROCK FORMATION .....

.....

.....

.....

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 MacNeil HRS. 12 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER R Wadden HRS. 12 S .....
HELPER D Singleton HRS. 12 S .....
HELPER ..... HRS. ..... S .....

REMARKS Job finished Pulled rods and tore down Set up to mobilize loaded all gear and moved it to truck and loaded. mixed truck + cat out road past mud holes.
3 men mobilizing 12 hrs Cat work 7 hrs.

FOREMAN .....

ENGINEER .....

DAILY DRILLING REPORT

NI NEWMAC INDUSTRIES LTD.

TELEPHONE: (604) 573-5455
R.R. 2, BARNHARTVALE, KAMLOOPS, B.C.

COMPANY Explorex LOCATION Horsefly B.C.

SHIFT—FROM ..... a.m. To ..... p.m. DATE Sept 30/74

HOLE NO. ..... ANGLE ..... SIZE ..... DRILL No. .....

DEPTH START OF SHIFT .....

DEPTH END OF SHIFT .....

FOOTAGE DRILLED .....

CORE RECOVERED .....

NUMBER OF RUNS .....

ROCK FORMATION .....

.....

.....

.....

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. MacMillan HRS. 10 S .....
RUNNER ..... HRS. ..... S .....
RUNNER ..... HRS. ..... S .....

HELPER R. Walters HRS. 10 S .....
HELPER Shayler HRS. 10 S .....
HELPER ..... HRS. ..... S .....

REMARKS tire down Camp + loaded. - 4 hrs.
mobilized to Kamloops 6 hrs.

FOREMAN .....

ENGINEER .....

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

325 Beckwith Road, Richmond, British Columbia Telephone (604) 273-6952

August 19, 1974

Mr. C. Kamm, Manager
Exploram Minerals Ltd.
1004 - 510 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

E. D. Cruz, P. Eng. -

Diamond drilling program -

July 30 - August 31, 1974 -

32/30 x $3200.00.....$3413.33

Amount of this invoice.....$3413.33

Appd CCK 21 Aug '74

Sent to Calgary Aug. 21/74

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

825 Beckwith Road, Richmond, British Columbia Telephone (604) 273-6962

September 17, 1974

Mr. C. Kamm
Exploration Manager
Exploram Minerals Ltd.
1004 - 510 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

E. D. Cruz, P. ENG

Diamond drilling program

September, 1974.....$3200.00

Amount of this invoice.....$3200.00

Appd CCK 18 Sep '74 for month of September 1974

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

925 Beckwith Road, Richmond, British Columbia Telephone (604) 273-6962

October 18, 1974

Mr. C. Kamm, Exploration Manager
Exploram Minerals Ltd.
1004 - 510 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

E. D. Cruz, P. ENG.

Diamond Drilling program office work -

October 1974, 1/2 month.....$1100.00

Amount of this invoice..... .....$1100.00

Appd CCK 23 Oct. '74

SUMMARY EXPENDITURES

Claim Group	Diamond Drilling	Supervision, Geology Logging and Sampling	Total
WL-A	$10,318.80	$3,211.12	$13,529.92
WL-B	4,704.77	1,605.56	6,310.33
Total	$15,023.57	$4,816.68	$19,840.25

Diamond Drilling Charges:

Holes 74-3 and 74-4	$10,318.80
Hole 74-5	4,704.77

Charges and Distribution of Supervision, etc.:

Charges:	August 1974	$3,413.33	(field)
	September 1974	3,200.00	(field)
	October 1974	1,100.00	(office)
	Total	$7,713.33	

Distribution:

HS Claims	$2,346.65 + $550.00	=	$2,896.65
WL Claims	$4,266.68 + $550.00	=	$4,816.68
Total			$7,713.33

Claim Group	Geophysical Work
WL-A	$5,735.00
WL-B	935.00
Total	$6,670.00

128E 132E 136E 140E 144E 148E 152E 156E 160E 164E 168E 172E 176E 180E 184E

36N
32N
28N
24N
20N
16N
12N
52°14'30"
8N
4N
0+00N
121°22'

WL 4
WL 6
WL 3
WL 5

D.D.H. 74-4
501.5', -45°
S88°W

D.D.H. 74-3
754.5', -45°
S88°W
PY

D.D.H. 74-5
383.5', -45°
S65°E
PY, CPY

1
2

To HS Claims

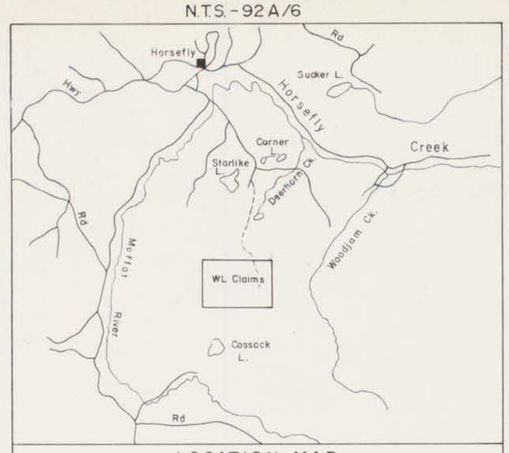
N
Magnetic N
24°

LEGEND

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

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5411 MAP #1

N.T.S. - 92 A/6



LOCATION MAP
Scale: 1"=4mi. approx.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
ERNESTO D. CRUZ

EXPLORAM MINERALS LTD.

DRAWN BY- R.J.E.	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.

5411 B MAP 1