

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DIAMOND DRILL RECORD

Location: 20N → W.

PROPERTY..... Kwanika

HOLE NO. C-1

Sheet Number 1

Latitude

Departure.....

Elevation.....

Section From to

Datum.....

Bearing..... N 15° W

Dip..... -60°

Started..... August 11, 1970

Completed..... August 26, 1970

Ultimate Depth..... 1,192' *SB*

Proposed Depth..... 1,200'

Depth Feet	Formation	Sample No.	Width of Sample	Assay	Value per Ton
0-30	Casing				
30-30.7	Equigranular syenite, fractures 4.	C1-1	30 - 40 feet		
	Plagioclase - 5%, K-feldspar 60%, minor quartz, minor calcite. Mafics 10% (mainly amphiboles) very little biotite. <10% disseminated pyrite.		<i>knapped</i>		<i>checked</i>
			<i>Syenite</i>	<i>→ g/lz monzonite</i>	
			<i>diorite - quartzior</i>	<i>→ g/lz bearing monzonite</i>	
30.7-31.6	Equigranular diorite, fractures 4.				
	Plagioclase 30-35%. K-feld 5% average. Mafics >50% (mainly amphiboles), minor calcite in fractures, minor quartz, minor epidolization in mafics, 10% disseminated pyrite.				
31.6-35	Equigranular syenite, fractures 4.				

Drilled By.....

Signed.....

016301

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering

P.O. BOX 5670, POSTAL STATION "A"
 CALGARY 9, ALBERTA
 TELEPHONE: 275-3391

Company: Great Plains Development
 Company of Canada, Ltd.
 Rock Samples

Page: 1 of 1
 File: CAL-2-2729
 Date: Sept. 22/70

DDH C1
0-30-casing

Analysis

<u>Sample</u>	<u>% Molybdenum</u>	<u>% Copper</u>	<u>Sample</u>	<u>% Molybdenum</u>	<u>% Copper</u>
C-1 30-40	0.017	0.24	C-15 170-180	ND	0.17
C-2 40-50	0.012	0.27 (<i>bornite</i>)	C-16 180-190	0.005	0.22 <i>b</i>
C-3 50-60	0.008	0.16	C-17 190-200	0.003	0.18
C-4 60-70	0.002	0.14	C-19 210-220	0.001	0.11
C-5 70-80	0.005	0.16	C-22 240-250	0.001	0.22
C-6 80-90	0.019	0.42 <i>bornite</i>	C-23 250-260	ND	0.16
C-7 90-100	0.004	0.12	C-24 260-270	ND	0.10
C-8 100-110	0.003	0.14	C-25 270-280	ND	0.12
C-9 110-120	0.008	0.21 <i>b</i>	C-26 280-290	ND	0.14
C-10 120-130	0.002	0.08	C-27 290-300	ND	0.08
C-11 130-140	0.005	0.10	C-28 300-310	ND	0.07
C-12 140-150	ND	0.24 <i>b</i>	C-29 310-320	ND	0.09
C-13 150-160	0.002	0.12	C-30 320-330	ND	0.09
C-14 160-170	ND	0.12			

*spent to deposite
(9th casing)*

hydraulic

granodiorite

C1-31 (on next pg)

Remarks: ND = Less than 0.001% Molybdenum

7.000
1.000

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering

P.O. BOX 5670, POSTAL STATION "A"
CALGARY 9, ALBERTA
TELEPHONE 253-3391

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 1 of 5
File: CAL-2-2746
Date: Oct. 3/70

Sample	Footage	% Copper	% Molybdenum
C1-18	200-210	0.39	0.0007
C1-19	210-220	0.11	
C1-20	220-230	0.11	ND
C1-21	230-240	0.052	ND
C1-31	330-340	0.13	0.002
C1-32	340-350	0.34	0.005
C1-33	350-360	0.12	0.002
C1-34	360-370	0.13	0.002
C1-35	370-380	0.14	0.011
C1-36	380-390	0.30	0.002
C1-37	390-400	0.43 - mafic rich	0.004
C1-38	400-410	0.17	0.002
C1-39	410-420	0.16	ND
C1-40	420-430	0.12	0.004
C1-41	430-440	0.14	ND
C1-43	450-460	0.14 0.15	ND 0.008
C1-44	460-470	0.16	0.006
C1-45	470-480	0.24 - chl.	0.012
C1-46	480-490	0.18	0.004
C1-47	490-500	0.12	ND
C1-48	500-510	0.21	0.024
C1-49	510-520	0.43 - H ₂ O zone, chl.	0.014
C1-50	520-530	0.065	0.009
C1-51	530-540	0.14	0.002
C1-52	540-550	0.070	ND
C1-53	550-560	0.060	0.014
C1-54	560-570	0.083	0.006
C1-55	570-580	0.33 ?	0.002
C1-56	580-590	0.14	0.015
C1-57	590-600	0.13	0.008
C1-58	600-610	0.13	0.015
C1-59	610-620	0.082	ND
C1-60	620-630	0.054	0.004
C1-61	630-640	0.065	0.004
C1-62	640-650	0.020	0.004
C1-63	650-660	0.081	0.002
C1-64	660-670	0.15	ND
C1-65	670-680	0.082	ND

See p. 10/1
for
other
assays

hybrid to 200'

mainly 9 to 100' - values in mafic rock
(colorized sections)

580' - 0.17

CORE LABORATORIES - CANADA LTD
 CALGARY ALBERTA

Company: Great Plains Development Company of Canada, Ltd.
 Rock Samples

Page: 2 of 5
 File: CAL-2-2746
 Date: Oct. 8/70

<u>Sample</u>	<u>Footage</u>	<u>% Copper</u>	<u>% Molybdenum</u>
C1-66	680-690	0.052	
C1-67	690-700	0.088	0.038
C1-68	700-710	0.058	0.010
C1-69	710-720	0.072	0.004
C1-70	720-730	0.073	0.006
C1-71	730-740	0.093	ND
C1-72	740-750	0.088	0.004
C1-73	750-760	0.18	0.004
C1-74	760-770	0.056	0.005
C1-75	770-780	0.13	ND
C1-76	780-790	0.12	0.011
C1-77	790-800	0.059	0.004
C1-78	800-810	0.077	0.002
C1-79	810-820	0.060	0.002
C1-80	820-830	0.059	0.003
C1-81	830-840	0.066	0.004
C1-82	840-850	0.055	ND
C1-83	850-860	0.063	0.004
C1-84	860-870	0.043	0.004
C1-85	870-880	0.041	0.002
C1-86	880-890	0.076	0.006
C1-87	890-900	0.041	0.004
C1-88	900-910	0.049	0.006
C1-89	910-920	0.061	0.006
C1-90	920-930	0.084	0.004
C1-91	930-940	0.069	0.014
C1-92	940-950	0.068	0.005
C1-93	950-960	0.12	0.006
C1-94	960-970	0.058	0.002
C1-95	970-980	0.009	0.004
C1-96	980-990	0.062	ND
C1-97	990-1000	0.042	ND
C1-98	1000-1010	0.11	ND
C1-99	1010-1020	0.065	0.012
C1-100	1020-1030	0.023	ND
C1-101	1030-1040	0.028	0.006
C1-102	1040-1050	0.014	0.004
C1-103	1050-1060	0.035	0.004
C1-104	1060-1070	0.035	0.038
C1-105	1070-1080	0.029	0.004
C1-106	1080-1090	0.028	0.004

Lt. alk fte monz (num. andesite shs)

CORE LABORATORIES - CANADA LTD
CALGARY ALBERTA

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 3 of 5
File: CAL-2-2746
Date: Oct. 8/70

<u>Sample</u>	<u>Footage</u>	<u>% Copper</u>	<u>% Molybdenum</u>
C1-107	1090-1100	0.025	
C1-108	1100-1110	0.031	0.006
C1-109	1110-1120	0.016	0.006
C1-110	1120-1130	0.044	0.004
C1-111	1130-1140	0.028	0.012
C1-112	1140-1150	0.023	0.008
C1-113	1150-1160	0.049	0.006
C1-114	1160-1170	0.025	ND
C1-115	1170-1180	0.025	0.004
C1-116	1180-1190	0.016	0.004
C1-117	1190-1192	0.013	0.006
			0.003

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DIAMOND DRILL RECORD

Location 20N → W: (Same collar as C-1?)

PROPERTY.....Kwanika.....

HOLE NO. C-2.....

Sheet NumberEZ-1. CZ-1.....

Section From to

Started.....August.26.....

Latitude

Datum.....

Completed....September.6.....

Departure.....

Bearing.....N 140° E.....

Ultimate Depth....1170.....

Elevation.....

Dip.....-6°.....

Proposed Depth....1200.....

585 p.p.

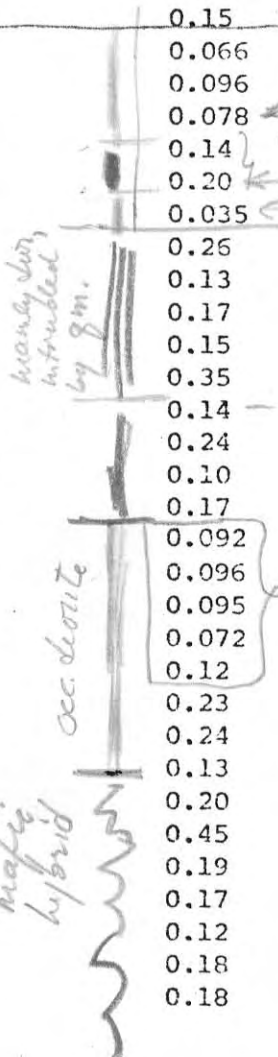
Depth Feet	Formation	Sample No.	Width of Sample	Assay	Value per Ton
0 - 28	Casing, mafics, mainly hornblende - 5%, qtz - 10%, kfd - 50%.				
28 - 65	Equigrainular granodiorite. Minor epidote. Degree of fracture 3, 45° slightly brecciated. Numerous fractures type: textures, lined with an altered fine grained diorite (granodiorite intruding) and altering diorite. Minor fractures filled with qtz carbonate stringers and clay minerals. Pyrite content diss 4%. Minor fractures with both diorite and granodiorite - pyrite and minor cpy. At 62.5 small fault zone with clay minerals.				

← checked as chl. lolo gte monzonite

Drilled By.....

Signed.....

C2-1	28-30	0.15		0.006
C2-2	30-40	0.066		0.004
C2-3	40-50	0.096		0.004
C2-4	50-60	0.078	← hole qtz monz	0.002
C2-5	60-70	0.14	← increase in	0.012
C2-6	70-80	0.20	← diorite	0.004
C2-7	80-90	0.035	← qtz monz	0.012
C2-8	90-100	0.26		0.032
C2-9	100-110	0.13		0.008
C2-10	110-120	0.17		0.006
C2-11	120-130	0.15		0.004
C2-12	130-140	0.35		0.014
C2-13	140-150	0.14	← qtz bearing monz, highly chl.	0.002
C2-14	150-160	0.24		0.015
C2-15	160-170	0.10		ND
C2-16	170-180	0.17		0.008
C2-17	180-190	0.092		0.008
C2-18	190-200	0.096		0.010
C2-19	200-210	0.095		ND
C2-20	210-220	0.072		ND
C2-21	220-230	0.12		0.004
C2-22	230-240	0.23		ND
C2-23	240-250	0.24		0.004
C2-24	250-260	0.13		0.004
C2-25	260-270	0.20		0.006
C2-26	270-280	0.45		0.012
C2-27	280-290	0.19		0.008
C2-28	290-300	0.17		0.004
C2-29	300-310	0.12		0.004
C2-30	310-320	0.18		0.004
C2-31	320-330	0.18		0.004

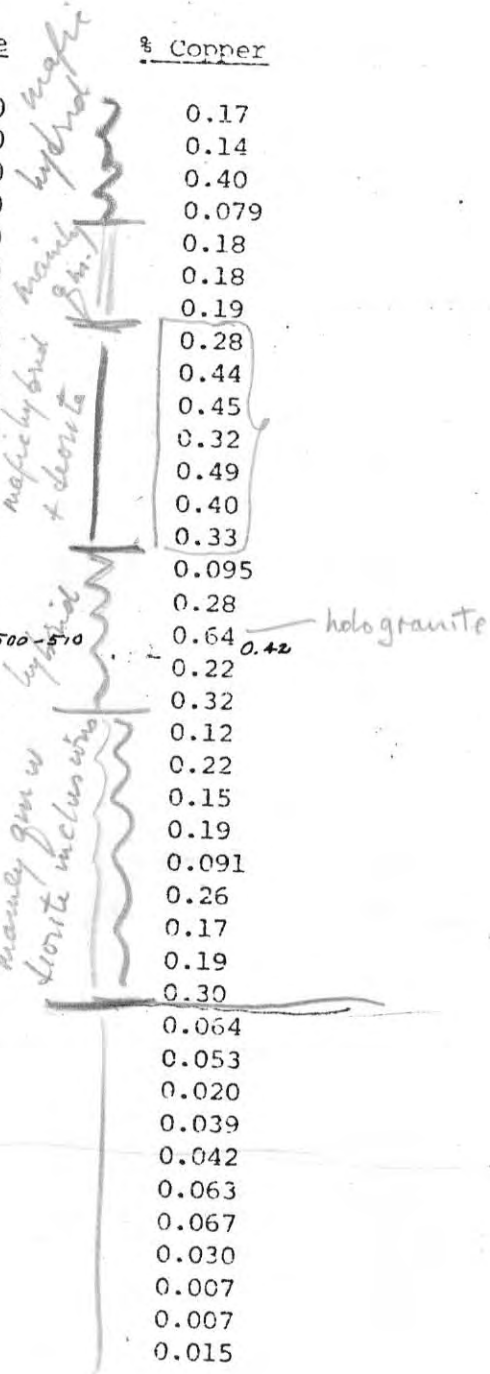


CORE LABORATORIES - CANADA LTD
 CALGARY ALBERTA

Company: Great Plains Development Company of Canada, Ltd.
 Rock Samples

Page: 4 of 5
 File: CAL-2-2746
 Date: Oct. 8/70

Sample	Footage	% Copper	% Molybdenum
C2-32	330-340	0.17	
C2-33	340-350	0.14	0.010
C2-34	350-360	0.40	ND
C2-35	360-370	0.079	0.007
C2-36	370-380	0.18	0.002
C2-37	380-390	0.18	0.002
C2-38	390-400	0.19	ND
C2-39	400-410	0.28	0.002
C2-40	410-420	0.44	0.004
C2-41	420-430	0.45	0.006
C2-42	430-440	0.32	0.004
C2-43	440-450	0.49	0.004
C2-44	450-460	0.40	0.007
C2-45	460-470	0.33	0.004
C2-46	470-480	0.095	0.004
C2-47	480-490	0.28	0.004
C2-48	490-500	0.64	0.004
C2-49	500-510	0.42	0.011
C2-50	510-520	0.22	0.008
C2-51	520-530	0.32	0.004
C2-52	530-540	0.12	0.004
C2-53	540-550	0.22	0.018
C2-54	550-560	0.15	0.004
C2-55	560-570	0.19	0.004
C2-56	570-580	0.091	0.004
C2-57	580-590	0.26	0.004
C2-58	590-600	0.17	0.004
C2-59	600-610	0.19	0.008
C2-60	610-620	0.30	0.098
C2-61	620-630	0.064	0.018
C2-62	630-640	0.053	0.010
C2-63	640-650	0.020	0.006
C2-64	650-660	0.039	0.004
C2-65	660-670	0.042	0.006
C2-66	670-680	0.063	0.028
C2-67	680-690	0.067	0.004
C2-68	690-700	0.030	0.004
C2-69	700-710	0.007	0.004
C2-70	710-720	0.007	0.004
C2-71	720-730	0.015	0.004



CORE LABORATORIES - CANADA LTD
 CALGARY ALBERTA

Company: Great Plains Development Company of Canada, Ltd.
 Rock Samples

Page: 5 of 5
 File: CAL-2-2746
 Date: Oct. 8/70

<u>Sample</u>	<u>Footage</u>	<u>% Copper</u>	<u>% Molybdenum</u>
C2-72	730-740	0.034	0.008
C2-73	740-750	0.016	0.012
C2-74	750-760	0.035	0.004
C2-75	760-770	0.016	0.006
C2-76	770-780	0.021	0.004
C2-77	780-790	0.016	0.004
C2-78	790-800	0.034	0.006
C2-79	800-810	0.025	0.004
C2-80	810-820	0.013	ND
C2-81	820-830	0.024	0.00
C2-82	830-840	0.011	ND
C2-83	840-850	0.012	0.004
C2-84	910-920	0.017	0.008
C2-85	1000-1010	0.019	0.002
C2-86	1050-1060	0.042	0.004
C2-87	1060-1070	0.050	0.008
C2-88	1070-1080	0.021	0.004
C2-89	1080-1090	0.008	0.004
C2-90	1090-1100	0.006	ND
C2-91	1100-1110	0.029	0.004
C2-92	1110-1120	0.088	0.004
C2-93	1120-1130	0.050	0.004
C2-94	1130-1140	0.088	0.002
C2-95	1140-1150	0.054	0.004
C2-96	1150-1160	0.13	0.004
C2-97	1160-1170	0.055	0.012

fresh pk. gm, num. ~~910-920~~ specified zones

ND - Not Detected

epoxidized as is
 other fresh non-min
 rock in area.
 non-fault zones, box.
 thruout

DIAMOND DRILL RECORD

MICROFILMS

PROPERTY ... KWANIKA CREEK 93-N-6, 11

HOLE NO. ... B-5 ...

Sheet Number ... 1. of 4. sheets.....
 Latitude
 Departure
 Elevation .. 3100. ft.....

Section From..... 0... to... 103...
 Datum
 Bearing 290°
 Dip 75° N.W.....

Started April 29, 1969..
 Completed ... May 2, 1969...
 Ultimate Depth ... 359ft.....
 Proposed Depth

Footage	Description	Sample	Footage	C.U.				
0-12ft.	Casing							
12-18ft	Coarse Grain Rusty Weathered Granite Sulfides: 1-1% Disseminated Pyrite							
18-37ft	Predominantly clay minerals 15-80%; Brecciated zones with clay seams parallel to the core axis. 32-33ft. Silicified Granite: Traces Chalcopryite, Mo.							
37-58ft	Argillized Brecciated granite: Most fracturing parallel to core axis. Alteration: 20-40% clay minerals, 3% calcite 1-2% hematite. Sulfides: 1-2% Pyrite; traces Chalcopryite.							
58-68ft	Silicified granite Sulfides: 1% Pyrite; traces Chalcopryite.							
63-81ft	Argillized Brecciated zone (Fault zone) Alteration: 25-75% Clay Minerals. Sulfides: 1-2% Pyrite.							
81-90ft	Altered Granitic rock: Degree of Fracture "3" Alteration: 15-25% Clay Minerals 5-10% Chlorite; 3-4% Calcite Sulfides: 2% Disseminated pyrite; Minor Chalcopryite (.1-.3%)	74017	80'-90'					
90-103ft	Altered Coarse grain pink syenite Sulfides: 2-3% Fine Grained Pyrite.							

Drilled by Connors Drilling Ltd,

Signed

* Percentages represent % Total Rock Volume.

Tag

74017
74018
74019
74020

Hole

B-5
B-5
B-5
B-5

Frontage

80-90 ✓
170-180 ✓
240-250 ✓
270-280 ✓

Assay

% Cu

%Mo

Awaiting Results

*all gouge -
no assays.*

DIAMOND DRILL RECORD

PROPERTY . . KWANIKA CREEK, B.C. . . 93-N-11 & 6

HOLE NO. B-1 . .

Sheet Number . . . 1 of 12
 Latitude
 Departure
 Elevation 3200 ft

Section From . . . 0 to . . . 30 ft Started March 30, 1969 . . .
 Datum West bank Completed April 5, 1969 . . .
 Bearing 90° at 59200N, 5750E. (Kwanika Ck) Ultimate Depth 392 ft . . .
 Dip . . . 75° E Proposed Depth
 Core Size: BQ w/l Core Diameter: 1 7/16" Drill SBS #1

Footage	Description	Sample	Footage	C.L.	Asshy	
					Cu	Mo
0 - 7	Casing: River Boulders, Sand 0-9 NX-Casing 0-10 BX-Casing					
7 - 10	CSE, G Pink Granodiorite (Equigranular, Degree Fracture (Quartz 10%, K-Feldspar 40-50% (Plagioclase 20% Hornblende 5-10%; Alteration Products 15%, Fracture Fill: Carbonate, Iron Oxides. Alteration: Minor Epidotization, Clay Minerals, Chloritization. Sulfides: 1-2% Pyrite as Fracture Filling and disseminated	"3"				
10 - 20	Same Rock Type: Equigranular, Calcite Stringers Alteration: Less Epidotization, Silification Minor Clay Sulfides: 1% Pyrite (10-13ft) .02-.03Cp (12-13ft)	76874			.12%	.005%
20 - 30	Same Rock Type: Equigranular, Fracture Network // and at 45° to core axis. Shearing, Minor Faults Alteration: Minor Epidotization, Chloritization, Silification, very minor argillization except 25-26' 10-15% FeOxide, calcite along fracture planes. Sulfides: > 2% mainly Pyrite (.3-.5%) Cp 24-25ft.	76873			.10%	.005%
30 - 40	Gray Pink Granitic Breccia 30-33ft >1% Pyrite Equigranular, Fractured 3" Coarse Grain Pink Granodiorite Mafics 20-25% Alteration: Minor Epidotization, Chloritization. Sulfides: 2-3% Pyrite as Fracture Fill, Traces Chalcopyrite	76872			.08%	.005%

1. Low Fracturing
2. Intermediate
3. Moderate Fracturing
4. High Fracturing
5. High Fracturing

Drilled by . Connors Drilling Ltd.

Signed

* Mineral Percentages represent % Total Rock Volume.

KWANIKA CREEK DRILL PROGRAM ASSAY RESULTS

MARCH 30, TO MAY 2.

<u>TAG</u>	<u>Hole</u>	<u>Footage</u>	<u>Assay</u>	<u>% Cu</u>	<u>% Mo</u>
76874	B-1	10-20		.12	.005
76873	B-1	20-30		.10	.005
76872	B-1	30-40		.08	.005
76871	B-1	40-50		.09	.005
76870	B-1	50-60		.13	.005
76869	B-1	60-70		.04	.005
76868	B-1	70-80		.06	.005
76867	B-1	80-90		.08	.005
76866	B-1	90-100		.11	.005
76826	B-1	100-110		.06	.01
76865	B-1	110-120		.11	.005
76864	B-1	120-130		.12	.005
76863	B-1	130-140		.14 ¹³	.005
76862	B-1	140-150		.35 ¹²⁴	.005
76861	B-1	150-160		.60	.005
76827	B-1	160-170		.25	.005
76828	B-1	170-180		.28	.005
76829	B-1	180-190		.37	.01
76830	B-1	190-200		.70	.015
76831	B-1	200-210		.31	.01
76860	B-1	210-220		.28	.005
76859	B-1	220-230		.30	.005
76858	B-1	230-240		.31	.005
76857	B-1	240-250		.60	.01
76856	B-1	250-260		.39	.005
76832	B-1	260-270		.44	.01
76833	B-1	270-280		.44	.01
76855	B-1	280-290		.28	.01
76834	B-1	290-300		.70 ¹⁴	.01
76854	B-1	300-310		.23 ⁶⁶⁰	.005
76853	B-1	310-320		.11	.005
76852	B-1	320-330		.21	.005
76851	B-1	330-340		.27	.005
76850	B-1	340-350		.18	.005
76835	B-1	350-360		.35	.01
76836	B-1	360-370		.27	.01
76849	B-1	370-380		.21	.005
76848	B-1	380-390		.17 ⁹	.01

*Increase
in
values*

200

30
62

MICROFILMED

124
660
200
984
224
200

DIAMOND DRILL RECORD

PROPERTY KWANIKA CREEK.....

HOLE NO. B-2.....

Sheet Number 1.....
 Latitude
 Departure
 Elevation 3200ft.....

Section From..... 0.. to... 30ft...
 Datum
 Bearing 90° (East End of Trench 2W)
 Dip 75°E.....

Started April 7, 1969...
 Completed .. April 10, 1969...
 Ultimate Depth 351 ft...
 Proposed Depth

Core Size: BQ w/1 Core Diameter 1 7/16ths"

Drill BBS #1

Footage	Description	Sample	Footage	C.L.	Assay	
					Cu	Mo
0-10	Casing					
10-20	Coarse Grain Gray Green Quartz Diorite; Degree of Fracture "3". <u>Alteration:</u> Argillization, Minor Epidotization, Carbonatization, Chloritization 10-15% <u>Sulfides:</u> 4-5% Pyrite as disseminations and Fracture Filling: .3-.5% Chalcopryrite. 15-16ft. Traces Mo associated with Quartz. 16-20ft. Granodiorite - Traces Chalcopryrite.	74016	10-20	.20	.005	
20-30	M.G. Pink Granodiorite: Fracture "2-3" Equigranular mafics 15%, Clay 5%, Minor Chlorite and Hematite. <u>Sulfides:</u> 7% Disseminated Pyrite; Minor Chalcopryrite (.2-.4%) 20-21ft. Traces MoS ₂ in quartz veins. 22-25ft. Increased argillization; Decrease in K-Feldspar - 10%; 1-2% Disseminated Pyrite Chalcopryrite. 25-30ft. Increase in K-Feldspar - 30% <u>Alteration:</u> Minor Clay Minerals, Epidote, Calcite, Chlorite, 5-8% <u>Sulfides:</u> 1% Dissem Pyrite. Traces Chalcopryrite, Mo.	76837	10ft	.14		
Degree of Fracture:						
1. Low Fracturing						
2. Intermediate (Low)						
3. Moderate Fracturing						
4. Intermediate (High)						
5. High Fracturing.						

Drilled by .. Cannons Drilling Ltd.....

Signed

* Listed Mineral Percentages represent % Total Rock Volume

<u>Tag</u>	<u>Hole</u>	<u>Frontage</u>	<u>Assay</u>	<u>% Cu</u>	<u>% Mo</u>
74016	B-2	10-20		.20	.005
76837	B-2	20-30		.14	.01
74015	B-2	30-40		.35	.005
74014	B-2	40-50		.25	.005
74013	B-2	70-80		.30	.005
76838	B-2	80-90		.27	.01
76839	B-2	90-100		.25	.01
74012	B-2	100-110		.18	.005
76840	B-2	110-120		.37	.01
74011	B-2	120-130		.18	.005
74010	B-2	130-140		.11	.005
74009	B-2	140-150		.26	.005
74008	B-2	150-160		.14	.005
74007	B-2	170-180		.08	.005
74006	B-2	180-190		.10	.005
76841	B-2	190-200		.16	.01
76842	B-2	200-210		.60	.01
74005	B-2	210-220		.23	.01
74004	B-2	220-230		.17	.01
74003	B-2	230-240		.25	.005
74002	B-2	240-250		.12	.005
74001	B-2	250-260		.16	.01
76925	B-2	260-270		.23	.005
76924	B-2	270-280		.34	.005
76923	B-2	280-290		.29	.005
76922	B-2	290-300		.38	.005
76921	B-2	300-310		.73	.005
76920	B-2	310-320		.61	.005
76919	B-2	320-330		.10	.005
76918	B-2	330-340		.14	.005
76917	B-2	340-350		.20	.005
76843	B-2	350-360		.31	.01
76844	B-2	360-370		.13	.01
76916	B-2	370-380		.21	.005

34. $\frac{854}{.25}$

27
-115
115
225
34

$\frac{855}{13}$

174
170

MICROFILMED

DIAMOND DRILL RECORD

PROPERTY ... KWANIKA CREEK. 93-N-6, 11

HOLE NO. B-3

Sheet Number 1

Latitude

Departure

Elevation ... 3400

Section From ... 0 ... to

Datum

Bearing 90° (60020N; 5250E)

Dip 65° E

Started ... April 14, 1969

Completed ... April 18, 1969

Ultimate Depth ... 402ft.

Proposed Depth

Core Size: BQ w/1 - Core diameter 1 7/16"

Drill BBS #1

Footage	Description	Sample	Footage	C.L.	Assay	
					Cu	Mo
0-84	Casing: Overburden (60% Sandy clay (30% Argillaceous Sand (10% Pebbles - Boulders					
84-89	Argillized Pink Coarse Grain Syenite. Clay Minerals - 15-20%; K-Feldspar - 40-50%; Plagioclase - 20%; Mafics - 10-15%; Quartz - 5%. Equigranular; moderately fractured "2-3" (i.e.) fracture frequency every 1 inch with fracture lengths $\frac{1}{2}$ - $1\frac{1}{2}$ " and width $\frac{1}{60}$ " - $\frac{1}{40}$ ". Fracture content: Clay Minerals, hematite, carbonate (Calcite) chlorite. <u>Alteration:</u> Minor chloritization, epidatization, argillization (15-20% clay minerals) <u>Sulfides:</u> None					
90-100	89-92 $\frac{1}{2}$ Decrease in clay minerals. Increase in epidote as blebs and fracture fill 3-4%. Minor calcite stringers. Quartz vein 30° to core axis bearing traces Mo. <u>Sulfides:</u> ~1% Fine Grained Pyrite, Traces Mo.					
100-120	92 $\frac{1}{2}$ -121 Same rock type. <u>Alteration:</u> Clay Minerals 10-15%. Epidote 4%; minor chlorite. <u>Sulfides:</u> Very minor Fine Grained Pyrite as Fracture Filling.					
Degree of Fracture:						
1. Low Fracturing						
2. Intermediate						
3. Moderately Fractured						
4. Intermediate						
5. Highly Fractured.						

Drilled by Connors. Drilling. Ltd.

Signed

* Percentages represent % total rock volume.

5250
2250
4400

<u>Tag</u>	<u>Hole</u>	<u>Frontage</u>	<u>% Cu</u>	<u>Assay</u>	<u>% Mo</u>
74022	B-3	140-150	.05		.005
76845	B-3	240-250	.04		.01
76846	B-3	250-260	.03		.005
76847	B-3	260-270	.08		.01
74021	B-3	392-402	.14		.005

remaining core split by
 G. Blicher - Aug 172 - check

	<u>Cu</u>	<u>Mo</u>
428N ←	.06	—
←	.08	—
←	.06	—
←	.01	—
←	.01	—
←	.07	—
←	.11	—
←	.09	—
←	.12	—
←	.14	—
←	.08	—
439N. ←	.54	.01

Blicher

CREST LABORATORIES (B.C.) LTD.

1068 HOMER STREET
VANCOUVER 3, B.C.
PHONE 688-8586

CREST LABORATORIES LTD
7911 ARGYLL ROAD
EDMONTON 82, ALBERT
PHONE 469-2391

CERTIFICATE OF ASSAY

TO Bow River Resources Ltd.
333 - 885 Dunsmuir Street,
Vancouver, B.C.

September 11, 1972

Lab 4225

I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	COPPER	MOLYBDENUM	MARKED	PERCENT	PERCENT	MARKED	PERCENT	PERCENT
	PERCENT	PERCENT		PERCENT	PERCENT		PERCENT	PERCENT
428 N	0.06	----						
429 N	0.08	----						
430 N	0.06	----						
431 N	0.01	----						
432 N	0.01	----						
433 N	0.07	----						
434 N	0.11	----						
435 N	0.09	----						
436 N	0.12	----						
437 N	0.14	----						
438 N	0.08	----						
439 N	0.54	0.01						

NOTE:
Rejects Retained One Month
Pulps Retained Three Months
Unless Otherwise Arranged.

S. Burgess

Registered Assayer; Province of British Columbia

DIAMOND DRILL RECORD

G.W. HUBBARD

PROPERTY ... KWANIKA CREEK 93-N-6, .11

HOLE NO. ... B-4 ...

Sheet Number ... 1 of 9 Section From 0 .. to ... 42ft .. Started ... April 21, 1969 ..
 Latitude Datum Completed ... April 25, 1969 ..
 Departure Bearing .105°(60200N; 5625E west bank Ultimate Depth .. 432 ft.
 Elevation .3200 ft. Dip -.75°E Kwanika Ck) Proposed Depth
 Core Size: BQ w/L - Core Diameter 1 7/16" Drill BBS # 1

2500
5625
1875
3750

Footage	Description	Sample	Footage	C.L.	Assay	
					Cu	Mo
0-22	Casing					
20-40	22-37 Altered Granodiorite: Degree of Fracture "3-4" K-Feldspar 30-40% Quartz 10% Plagioclase 10-15% Mafics 5-10% <u>Alteration:</u> Chlorite 5%, Clay Minerals 5-10% Minor Silicification, calcite 2%-3% <u>Sulfides:</u> 1-2% F.G. Pyrite; Traces Mo in Quartz. 22-23ft. Minor Chalcopryrite .1-.3%	76875	20'-30'		.14	.01
	23-36 Clay Minerals increase to 10-20% in Localized brecciated zones. 1% Pyrite in clay and chlorite matrix.	76876	30'-40'		.11	.01
	34-37 Minor Epidote and hematite					
	34-36 2% Fine grained pyrite as disseminations and fracture filling.					
	37-38 Coarse Grain Pink Granite. Pyrite .1%					
	38-42 Decrease in K-Feldspar. Increase in clay minerals. Minor silicification. <u>Sulfides:</u> Traces Mo in Quartz Veins 1% F.G. Pyrite.					
40-60	42-64 Coarse Grain Pink Granodiorite: Fractured "3-4" <u>Alterations:</u> Epidote 1-2%, Minor hematite, calcite clay minerals 5-15% <u>Sulfides:</u> 1-2% Pyrite as fracture filling	76877	40 - 50		.09	.01
	46-48 Brecciated Zone.	76878	50 - 60		.11	.01
	51-54ft. 3ft. of lost mud.					

Degree of Fracture:

1. Low Fracturing
2. Intermediate
3. Moderately Fractured
4. Intermediate.
5. Highly Fractured.

Drilled by .Connors Drilling Ltd.....

Signed

* Percentages represent % total rock volume.

Tag	Hole	Frontage	% Cu	Assay	% Mo
76875	B-4	22-30	.14		.01
76876	B-4	30-40	.11		.01
76877	B-4	40-50	.09		.01
76878	B-4	50-60	.11		.01
76879	B-4	60-70	.11		.01
76893	B-4	200-210	.50		.02
76894	B-4	210-220	.07		.005
76895	B-4	220-230	.27		.005
76896	B-4	230-240	.09		.005
76897	B-4	240-250	.12		.005
76898	B-4	250-260	.25		.01
76899	B-4	260-270	.11		.005
76900	B-4	270-280	.26		.01
76901	B-4	280-290	.11		.01
76902	B-4	290-300	.11		.005
76903	B-4	300-310	.33		.01
76904	B-4	310-320	.18		.01
76905	B-4	320-330	.14		.005
76906	B-4	330-340	.12		.005
76907	B-4	340-350	.06		.005
76908	B-4	350-360	.09		.025
76909	B-4	360-370	.14		.005
76910	B-4	370-380	.13		.005
76911	B-4	380-390	.14		.01
76912	B-4	390-400	.25		.01
76913	B-4	400-410	.12 .21		.005
76914	B-4	410-420	.18		.015
76915	B-4	420-430	.16		.005
<hr/>					
		70-80	.11		.01
		80-90	.10		.005
		90-100	.12		.01
		100-110	.09		.005
		110-120	.12		.005
		120-130	.16		.005
		130-140	.11		.005
		140-150	.23		.005
		150-160	.23		.02
		160-170	.20	.25	.01
		170-180	.11		.005
		180-190	.38		.01
		190-200	.28		.02

76880 -
76892

Sn.
70-200

(see detail)
log

41 $\frac{12}{6821}$
41
272
253

$\frac{.008}{360}$
41 $\frac{.008}{360}$
36.9

EXPLODED

193
11
24/25

7 $\frac{193}{14}$ 27
53