

# 5168

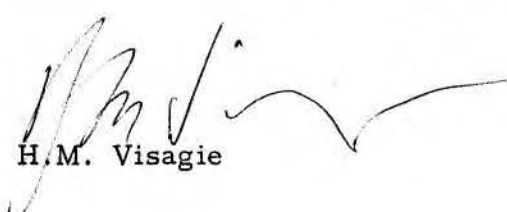
GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD

DRILLING REPORT ON THE  
BALL CREEK PROPERTY  
N.T.S. 104/G/8 (W½)

Latitude 57°17'W; Longitude 130°25'N  
Liard Mining Division B.C.

104G/8W

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 5168 MAP
---

  
H.M. Visagie

September, 1974.

TABLE OF CONTENTS

- A. Introduction and Summary
- B. Expenditure Breakdown
- C. Statement of Qualifications
- D. Drill Logs.

#1 Drill Hole Location  
#2 Index map

A. INTRODUCTION AND SUMMARY

During the 1974 field season a drilling program was carried out on the Ball Creek property owned by Great Plains Development Company of Canada, Ltd. The claims are situated on Ball Creek approximately 52 air miles south of Telegraph Creek and 6 air miles west of the Iskut River. The purpose of the 1974 drilling was to expand and further define an area of copper mineralization which was discovered in the 1973 drilling program.

In 1974, three holes were drilled for a total footage of 2132 feet. The drilling was contracted to E. Caron Diamond Drilling of Whitehorse, Yukon Territory. A summary of the drill data is as follows:

<u>Hole No.</u>	<u>Dip</u>	<u>Location</u>	<u>Depth</u>
74-1	90°	82 + 00 N, 41 + 00 W	845'
74-2	90°	74 + 50 N, 37 + 00 W	556'
74-3	90°	74 + 00 N, 41 + 00 W	731'

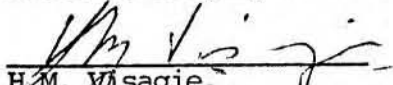
C.

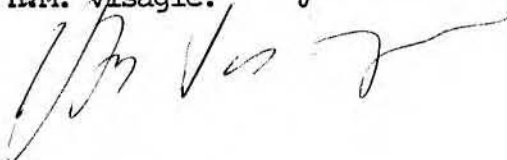
STATEMENT OF QUALIFICATIONS

I Rik Visagie reside at 46140 Camp River Road, Chilliwack, in the Province of British Columbia. I have a B.Sc(72) (Geology Major) from the University of British Columbia. I have worked in Exploration in British Columbia during the past 4½ years.

1970	Bethlehem Copper	Summer Student
1971	Bethlehem Copper	Summer Student
1972	Bethlehem Copper	(full time geologist)
1973	Great Plains	" "
1974	Great Plains	" "

Dated at Calgary this 25th day of September, 1974.

  
\_\_\_\_\_  
H.M. Visagie.



D. DRILL LOGS.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK

HOLE NO. 74-1

SHEET NUMBER 1

SECTION FROM \_\_\_\_\_

STARTED June 20/74

LATITUDE 82 + 00N

DATUM Sea Level

COMPLETED July 16/74

DEPARTURE 41 + 00 West

BEARING N/A

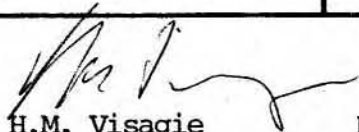
ULTIMATE DEPTH 845'

ELEVATION 4675'

DIP 90°

PROPOSED DEPTH 1000'

Depth (in')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
0-46	Overburden	Core is badly broken and highly weathered	Chl-weak Rs -weak	py-3%	30					
46-100	Light greenish grey biotite hornblende quartz monzonite slightly porphyritic with feldspar to 4 mm		Ep -weak Clay - weak							
100-110	Brecciated quartz - latite	"	qtz veining-weak		70					
110-120	No core	"								
120-150	Latite porphyry - a dark greenish grey color	"	weakly altered; porphyritic	less than 1% pyrite	30					
150-190	No core									
190-300	Greenish grey - biotite hornblende latite porphyry feldspar crystals to 4 mm. core is weak to moderately magnetic, 50-75% phenocrysts in a closed structure.	"	"		40					

LOGGED BY   
H.M. Visagie

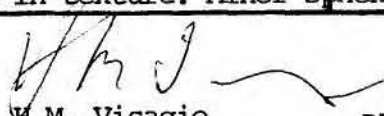
DRILLED BY E. Caron Diamond Drilling CORE STORED On Property.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-1  
 SHEET NUMBER 2 SECTION FROM \_\_\_\_\_ STARTED June 20/74  
 LATITUDE 82 + 00 N DATUM Sea Level COMPLETED July 16/74  
 DEPARTURE 41 + 00 West BEARING N/A ULTIMATE DEPTH 845'  
 ELEVATION 4675' DIP 90° PROPOSED DEPTH 1000'

Depth (in ')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
310-360	Biotite hornblende quartz monzonite.	Core is badly broken and highly weathered	Weak chlorite al- teration of mafics	less than 1% pyrite	50					
360-447	Biotite hornblende latite porphyry slight greenish hue moderately magnetic	blocky core	sericite N/A too weak. Chlorite - weak and weak carbonates on fractures.	1% pyrite	50					
447-670	a fresh light grey rock with a pink matrix. Biotite - hornblende quartz monzonite porphyry 60-75% phenocrysts  feldspar phenocrysts to 2 mm set in a fine grained pink matrix; mafics about 15% Weak to moderate disseminated Magnetite - also some minor hematite slight variations occur in grain intensity through the section; occasionally trachytic in texture. Minor sphene	solid core with minor fracturing	quartz veining - weak. Chlorite alteration moder- ate epidote moder- ate.  Moderate carbonate along fractures pink zeolites on fractures between 580-650	1% pyrite occasional grains of dissem.cpy	90					

LOGGED BY

  
H.M. Visagie

DRILLED BY

E. Caron Diamond Drilling

CORE STORED

On Property.

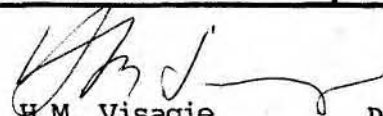
GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-1  
 SHEET NUMBER 3 SECTION FROM \_\_\_\_\_ STARTED June 20/74  
 LATITUDE 82 + 00 N DATUM Sea Level COMPLETED July 16/74  
 DEPARTURE 41 + 00 West BEARING N/A ULTIMATE DEPTH 845'  
 ELEVATION 4675' DIP 90° PROPOSED DEPTH 1000'

Depth (in')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
670-695	Biotite-hornblende latite Breccia	Weak fracturing	Weak sericite, very weak clay, weak chloritic & weak to moderate carbonates on fractures.	1% pyrite with minor chalcopyrite	85					
695-736	Quartz monzonite porphyry similar to section 447-670	rubbly - 710-718 rubbly 730-732	clay - weak sericite - weak chlorite - weak to moderate	Between 1-2% pyrite very weak cpy.	85					
736-801	a light greenish grey fragmental - latite breccia - fragments up to 3 cm.	rubbly 750-51 rubbly 760-63	weak - moderate quartz veining, weak K-spar, weak sericite, weak to moderate chlorite, weak carbonate on fractures.	1% pyrite .2 chalcopyrite	75					
801-845	Quartz monzonite porphyry similar to 447-670	rubbly 820-844	Moderate to strong chlorite.	1% pyrite	50					

LOGGED BY

  
H.M. Visagie

DRILLED BY E. Caron Diamond Drilling CORE STORED On Property



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-2  
 SHEET NUMBER 1 SECTION FROM \_\_\_\_\_ STARTED July 18/74  
 LATITUDE 74 + 50 N DATUM SEA LEVEL COMPLETED July 30/74  
 DEPARTURE 37 + 00 W BEARING N/A ULTIMATE DEPTH 556'  
 ELEVATION 4650' DIP 90° PROPOSED DEPTH 800'

Depth (in')	Lithology	Structure	Alteration	Mineral-ization	Core Recov.	Assay #	Assay			
0-20	Bedrock	blocky rock with some rubbly sections strongly weathered	quartz moderate veining, sericite - weak clays - - weak chlorite -	py - 1% cpy - .2% mal-very weak	80					
20-100	Brecciated quartz latite; mottled green in color; slightly magnetic with very weak hematite on fractures. Texture is often obscured by alteration.		moderate - very weak carbonate on veins. Weak to moderate K-spar alteration enveloping veins. occasional weak carbonate veins.							
100-173	Latite porphyry moderately - strongly magnetic dark green - grey color similar to latite porphyry in top of hole 4	Slightly weathered	qtz veining, minor envelopes of K-spar weak chlor- ite very weak epidote.							
	50-75% phenocryst to 4 mm set in a dark grey matrix	weakly weathered	qtz veining weak sericite - weak chlorite - weak epidote - weak	1% pyrite spot mo and cpy						

LOGGED BY H.M. Visagie

DRILLED BY E. Caron Diamond Drilling CORE STORED On property.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-2  
 SHEET NUMBER 2 SECTION FROM \_\_\_\_\_ STARTED July 18/74  
 LATITUDE 74 + 50 N DATUM SEA LEVEL COMPLETED July 30/74  
 DEPARTURE 37 + 00 W BEARING N/A ULTIMATE DEPTH 556'  
 ELEVATION 4650' DIP 90° PROPOSED DEPTH 800'

Depth (in')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay							
173-183		10' Mud Seam												
183-350	Quartz latite porphyry - phenocrysts approximately 4 mm 50-75% feldspar phenocrysts Fine grained mafics biotite, hornblende weak to moderate magnetically - weak hematite on fractures.	Moderate weathering along fractures	K-spar-moderate envelopes about veins qtz veining - moderate - Mo sericite weak - moderate minor carbonate on fractures. - occasional section of weak zeolites.	2-5% pyrite spot Mo on fractures minor cpy	85									
350-370	Latite Breccia mottled appearance - well altered		K-spar - moderate sericite - moderate chlorite - weak quartz veining weak - weak carbonate veining secondary biotite weak.	1% pyrite 1% cpy trace Mo	90									

LOGGED BY H.M. Visagie DRILLED BY E. Caron Diamond Drilling CORE STORED On Property.



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-3  
 SHEET NUMBER 1 SECTION FROM \_\_\_\_\_ STARTED August 1/74  
 LATITUDE 74 + 00 N DATUM Sea Level COMPLETED August 19/74  
 DEPARTURE 41 + 00 W BEARING N/A ULTIMATE DEPTH 731'  
 ELEVATION 4800' DIP 90° PROPOSED DEPTH 500'

Depth (in ')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
0-42	Overburden	Core is rubbly and well weathered along fractures.	Weak - moderate chlorite.	less than 1% pyrite	50					
42-88	Biotite hornblende quartz monzonite porphyry - closed unit with 75% phenocrysts up to 4 mm in size; light colored rock with a pink matrix. mafics about 10% slightly magnetic.	fault at 88'								
88-138	Brecciated quartz latite porphyry with small trachytic dykes cutting the section.	weathered fractures	moderate sericite weak chlorite secondary biotites weak fluorite on veinlets K-spar alteration around veinlets and fractures.	less than 1% pyrite ½% cpy	90					

LOGGED BY

H.M. Visagle

DRILLED BY

E. Caron Diamond Drilling

CORE STORED

On property.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-3

SHEET NUMBER 2 SECTION FROM \_\_\_\_\_ STARTED August 1/74

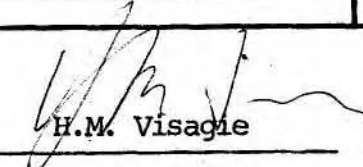
LATITUDE 74 + 00 N DATUM Sea Level COMPLETED August 19/74

DEPARTURE 41 + 00 W BEARING N/A ULTIMATE DEPTH 731'

ELEVATION 4800' DIP 90° PROPOSED DEPTH 500'

Depth (in ')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
320-380	Brecciated quartz latite porphyry - a light bluish green rock.		weak quartz vein- ing - minor k-spar envelopes on fra- ctures. moderate sericite - weak carbonates on fractures - secon- dary biotites weak on fractures.	2% pyrite ½% cpy trace mo on fractures malachite on fracture	85					
380-382		fault zone								
328-463	Brecciated quartz latite Fragments to 2 cm core not magnetic weak hematite on fractures.		Moderate sericites minor clays weak chlorite - secondary biotites on veinlets weak qtz veining - occasional fractures filled with gypsum		85 90					

LOGGED BY

 H.M. Visagle

DRILLED BY

E. Caron Diamond Drilling

CORE STORED

On Property.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.  
DIAMOND DRILL RECORD

PROPERTY BALL CREEK HOLE NO. 74-3  
 SHEET NUMBER 3 SECTION FROM \_\_\_\_\_ STARTED August 1/74  
 LATITUDE 74 + 00 N DATUM Sea Level COMPLETED August 19/74  
 DEPARTURE 41 + 00 W BEARING N/A ULTIMATE DEPTH 731'  
 ELEVATION 4800' DIP 90° PROPOSED DEPTH 500'

Depth (in ')	Lithology	Structure	Alteration	Mineral- ization	Core Recov.	Assay #	Assay			
138-140		fault								
140-220	Quartz latite Breccia Biotite and hornblende pro- minent - light green color very weakly magnetic minor hematite on fractures.		Sericite - weak Chlorite - weak minor calcite on veinlets. - second- ary biotite on fractures.	pyrite 1% malachite - tr. cpy .2%	90					
220-260	rock appears to be a brecciated quartz latite.	large rubble zone poor core recovery core badly weathered and broken.			25					
260-320	Brecciated quartz - latite a light bluish green hue to the rock.	core badly broken	- weak moderate sericite. weak chlorite.		60					
463-485	Quartz latite porphyry		moderate qtz vein ing K-spar weak in envelopes mod- erate sericite	2% pyrite ½% cpy						

LOGGED BY

*H.M. Visagie*  
H.M. Visagie

DRILLED BY

E. Caron Diamond Drilling

CORE STORED

On Property



B. EXPENDITURE BREAKDOWN

Total cost of 1974 Program	\$133,400
Total Footage in 1974	2132 feet
Cost per foot	\$62.54 per foot

Assessment credit is requested for expenditures incurred for 1901 feet of drilling which was completed prior to the anniversary dates of the due claims. As exact costs were not available at the time of application for credit, an approximate cost of \$45 per foot was used to compute the available credits.

A breakdown of the costs applied for credit is as follows:

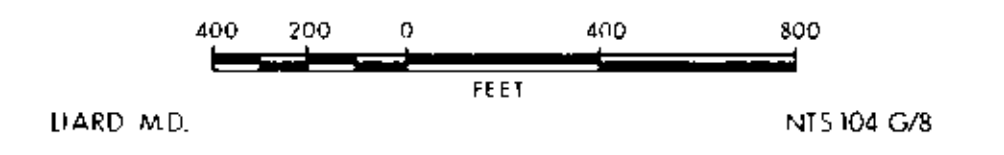
1. DDH 74-1 - 845' @ \$45/foot \$ 38,025  
- \$37,000 of this work was applied to the claims.
2. DDH 74-2 - 556 feet @ \$45/foot \$ 25,020  
DDH 74-3 - 500 feet @ \$45/foot \$ 22,500  
- \$44,000 of this work was applied to the claims.

Total Expense Breakdown

Salaries (geologist, assistant, cook, expeditor)	\$ 11,000
Supervision	\$ 900
Camp Charges (trailer rental, groceries)	\$ 14,000
Flying (Helicopter and fixed wing)	\$ 33,000
Drill Charges	\$ 67,000
Truck and radio rentals	\$ 5,000
Miscellaneous	\$ 2,500
	<hr/>
	\$133,400
	=====

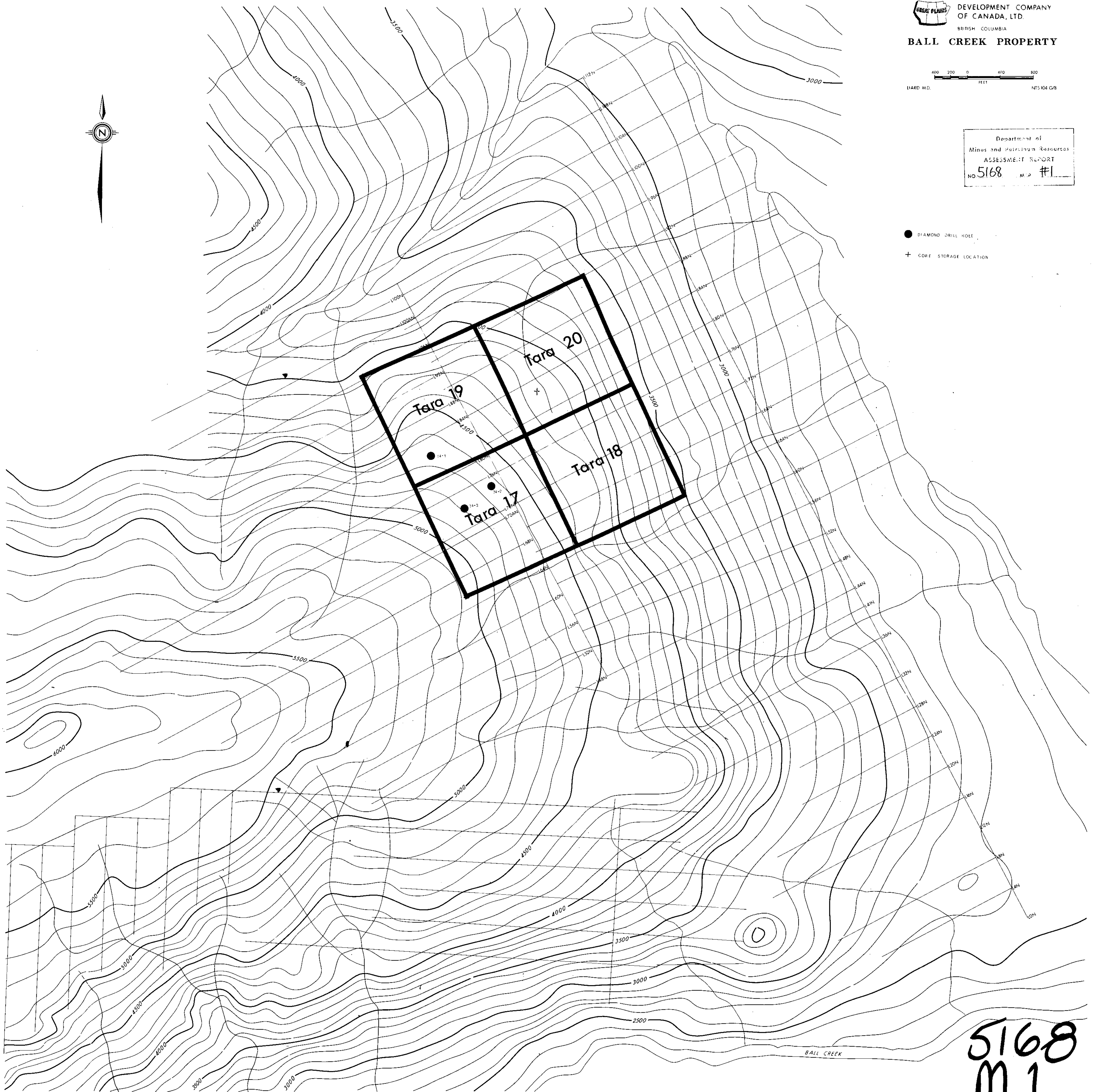


**BALL CREEK PROPERTY**



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO 5168 MAP #1

- DIAMOND DRILL HOLE
- + CORE STORAGE LOCATION



5168  
M1

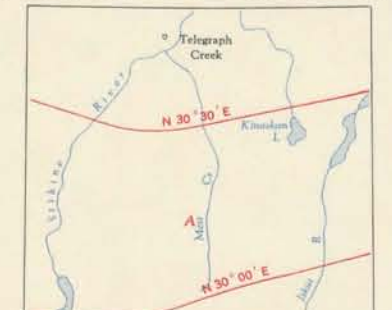


GRID ZONE DESIGNATION 9V	TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METERS
100,000 M. SQUARE IDENTIFICATION UQVU UPVP 640 40	SAMPLE POINT HORIZONTAL CONTROL POINT
	1. Read letters identifying 100,000 meter square in which point lies.
	2. Locate first letter, and line to LEFT of point and read 1000 Meters between the line and the top or bottom margin, or on the line itself.
	3. Estimate tenth from grid line to point to locate 100 METERS, and use 100 METERS point and read LARGE figure relating the line and the top or bottom margin, or on the line itself.
	4. Estimate tenth from grid line to point to locate 10 METERS.
	5. Reading beyond 10" in any direction, refer Grid Zone Designation, or 9VUP7594

TEN THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID ZONE

5168 M2 Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 5168 MAP #2

THE DECLINATION OF THE COMPASS NEEDLE, 1954



The declination of the compass needle at any place along a red line is the declination given on that red line. At other places the declination is between those given on the neighbouring red lines; thus at the place marked A, the declination is between N. 30° 30' E. and N. 30° 15' E. The easterly declinations of the compass needle are decreasing 4 minutes annually.

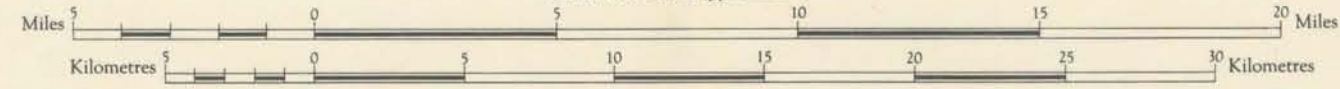
Surveyed, compiled, drawn and printed by the ARMY SURVEY ESTABLISHMENT R.C.E., 1950-54. Aerial Photography by the R.C.A.F., 1949. Minor revision, 1959 by the Department of Energy, Mines and Resources, Ottawa, Printed 1970. Universal Transverse Mercator Projection

REFERENCE

Road, Hard Surface, All Weather	More than 2 Lanes	Blue No. 2 Lines
" " " " " " " "	2 Lanes	Blue No. 2 Lines
" " " " " " " "	All Weather	Blue No. 2 Lines
" " " " " " " "	Less than 2 Lanes	Blue No. 2 Lines
Cart Track, Trail	Cart Track	Blue No. 2 Lines
Railway, Multiple Track	Single Track	Blue No. 2 Lines
Boundary, International	Province or State	Blue No. 2 Lines
" " " " " " " "	County or District	Blue No. 2 Lines
" " " " " " " "	Reservations, Indian, Military, etc.	Blue No. 2 Lines

TELEGRAPH CREEK BRITISH COLUMBIA

Scale 1:250,000 1 Inch to 4 Miles Approximately



Copies may be obtained from The Map Distribution Office, Dept. of Mines and Technical Surveys, Ottawa.

Contour Interval 20 Feet All Elevations in Feet above Mean Sea Level. North American Datum 1927 February 1959

REFERENCE

Horizontal Control Point	Spot Elevation, in feet	124
Contours, Elevation	Forest, undisturbed	
" " " " " " " "	Swamp or Marsh	
" " " " " " " "	Depression	
" " " " " " " "	Approximation	
Glacier or Snowfield	W. L. 125	
Stream, Intermittent	Mud Sand	
" " " " " " " "	Ferry	
" " " " " " " "	Dam	
" " " " " " " "	Falls	
" " " " " " " "	Airfield, on Land	
" " " " " " " "	Water	
" " " " " " " "	Landing Ground	
" " " " " " " "	Anchorages	
" " " " " " " "	Power Transmission Line	



NOTE: On the above index the sheets published are shown shaded green.