



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

AREA CODE 403
TELEPHONE 264-0660
CABLE ADDRESS
"GREATPLAIN"

736 EIGHTH AVENUE SOUTHWEST, CALGARY 2, CANADA

C421
842283
Snippaker
Creek

April 17, 1972

Mr. J. Kennedy
Chevron Standard Limited
400 - 5 Avenue S. W.
Calgary, Alberta

Dear Sir:

As agreed with Mr. K. Williams, the following outlines the budget for the coming 1972 field season.

	G.P.D.	Chevron	Gross
Ball Creek Area			
Me, Rog, Tara Claims	\$ 34,500	\$ 25,500	\$ 60,000
Mit, Mat Claims	2,300	1,700	4,000
Snippaker Creek Area			
Tami, Kim Claims	11,500	8,500	20,000
Mt. Dunn Area	<u>2,000</u>	<u>2,000</u>	<u>4,000</u>
SUB TOTAL	\$ 50,300	\$ 37,700	\$ 88,000
+ 10%	5,030	3,770	8,800
	<u>\$ 55,330</u>	<u>\$ 41,470</u>	<u>\$ 96,800</u>

Contingency for additional staking
and/or additional follow-up
work if warranted by the
individual program

\$ 10,000
\$106,800

If you are in agreement with the budget as set forth, please sign and return the attached copy of this letter.

Yours very truly,

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

N. W. Reynolds

UNDERSTOOD AND AGREED TO
this ___ day of _____ 1972

CHEVRON STANDARD LIMITED

cc: Mr. K. Williams
NWR:jgm

KINASKAN J.V.
(SNIPPAKER CREEK)
OBSERVATIONS FROM VISIT

An extremely brief visit was made to the Tami and Kim claims on Snippaker Creek on the 14th of September 1973.

Rock types (dioritic), alteration (phyllic), and fracturing (extreme), are very similar in appearance to the Ball Creek property. Minor Cu has been found (although mapping was incomplete at the time of the visit), mainly as sparse chalcopyrite and malachite disseminations in some areas of an adesite tuff.

Geochemical soil sampling has revealed large Cu anomalous and Mo anomalous areas, with partial correlation between the anomalies, but none as yet between these and the surface mineralization.

The property provides a fairly good environment for porphyry type deposits. However, many of the objections made with respect to the Ball Creek property apply here, in particular the heavy probable leaching, and probable secondary metal dispersion.

Outcrop, though mostly well weathered, is plentiful, and extremely thorough mapping, including alteration and fracture densities, should be completed before any decision to drill should be made.

DAVID ARSCOTT
18th September 1973

SNIPAKER 14 Aug
73

Tami

- A. por, prob intr
v. alt- & var., argil?,
propy? . gtz velets
(w/ py occas.) usually
Bpy in A. por.

- hamp. dykes, either
hb or bio phenos, v.
chlor. gndmass.

- S slope of Tami
deeply incised, quite
gossany, & v. v. huily
ftd & wthrd. Corrite
in 1 spot.

- This side pred Cu anom

- A por felsitic to extr.
apace in pt. . lo gtz
lo maf.

ftg sheeting more
common than at Ball

- more intrusive char,
more mat as lower
- decr. alt. too

KIM

Most (up) mat in
tuffs - Blebby.

General

- very little new information, and what there is, is not well correlated with the former work.
- The report contains numerous minor errors, and a rather heavy interpretation of available data (profile map of possible subsurface geology)

Positive Attributes

- generally strong geochemical indications.
- scattered surface mineralization including bornite and chalcocite. The latter is probably supergene; the former probably hypogene.
- propylitic alteration, heavy fracturing, and pyritization.
- mineralization in Triassic volcanics, in a generally copper positive region.

Negative attributes

- anomalies are not well correlated, except for Cu/Mo on the Tami group. ~~Some of this poor correlation may be apparent. e.g. Pb/Ag and~~
- anomaly correlation with surface mineralization is not particularly good, and a preferred host is not very evident in the maps (though so stated in the report). The possible

implication here is that we are looking at large scale mineralization - good in the tonnage sense but indicative of \log_e distance from source??

- The intense pyritization and fracturing will almost certainly result in leaching depths comparable to those at Ball Creek (300').
- The presence of pyrite, ~~z~~ chalcocite, hematite, and galena suggest a position (relative to the ideal porphyry model) well out from the ore zone, at least as far out as at Ball Creek.

Conclusion:

Similar problems to Ball Creek.

We should first determine if the porphyry model does apply at Ball Creek, and in any case wait for some concrete indications (economic and/or geological) from that property before proceeding with Snippaker. This is especially true if there is a very deep ore zone at Ball Creek. It could be deeper at Snippaker (unless they have any idea of intrusive orientation, which is doubtful).

D. A.



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

736 EIGHTH AVENUE SOUTHWEST, CALGARY, ALBERTA, CANADA T2P 1H4

AREA CODE 403
TELEPHONE 264-0660
CABLE ADDRESS
"GREATPLAIN"

RECEIVED

MAY 8 1974

Minerals Staff
CHEVRON STANDARD LIMITED
VANCOUVER OFFICE

May 6th, 1974

Mr. Earl Dodson
Chevron Standard Ltd.
833 - Marine Building
355 Burrard St.
VANCOUVER 1, British Columbia

FILE

Dear Mr. Dodson:

Re: Snippaker Creek Project

Please find enclosed a copy of the "Petrographic Report on Fifteen Thin Sections, Snippaker Creek Area, B.C." prepared for us by D. L. Cooke and Associates Ltd., Vancouver. Also enclosed are the assay results for twenty-eight of the rock samples collected last summer. Geological maps for the Kim and Tami groups showing rock sample locations have been included for attachment to the project year-end report submitted to you last January.

Preparatory work for the coming field season has been completed. It is expected that commencement of the project will be no later than July 1st and should reach completion after approximately six weeks. Work will be carried on as outlined in last season's project year-end report.

It is hoped that everything meets with your satisfaction.

Yours very truly,

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

V. K. Read

VKR/gw
encls.



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

736 EIGHTH AVENUE SOUTHWEST, CALGARY, ALBERTA, CANADA T2P 1H4

AREA CODE 403
TELEPHONE 264-0999
CABLE ADDRESS
GREATPLAINS

24th September, 1974.

Mr. E. Dodson,
Chevron Standard Ltd.,
833 Marine Building,
355 Burrard Street,
VANCOUVER, B.C.

Dear Sir:

Assessment work has been applied and rentals paid for all mineral claims jointly owned under our Operating Agreement with the exception of the Kim 1, 3, 5, 7, 9 and 11 mineral claims which will expire on September 28th, 1974.

Although the BR 1-3, Mom 4-11 and Tara 1-27 are in good standing to 1991 only rental for one year has been paid.

As soon as the assessment work has been accepted by the B.C. government we will be notifying you of the dates to which claims are in good standing.

If the above meets with your approval kindly sign the copy of this letter and return to this office at your earliest convenience.

Yours very truly,

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.,

V.W. Johanson
Landman

VWJ/jda

AGREED AND UNDERSTOOD
THIS _____ DAY OF _____ 1974.

Chevron Standard Ltd.,

cc: Mr. Bob Smiley,
Chevron, Calgary.

Vancouver, B.C.
September 27, 1974

SNIPPAKER CREEK - C421

DR. C. DAHLSTROM:

Great Plains have notified us that they plan to drop the KIM Mineral Claims #1, #3, #5, #7, #9 and #11, a total of six, which expire tomorrow. This would appear to be a reasonable decision based on availability of assessment work and relative importance of the specific claims.

I was notified of the intent on September 24th., somewhat late to argue the point. This was directly related to the late snow melt and, consequently, late work on the ground. I have asked that they make every effort to be somewhat earlier with their notification in the future.

Will you please sign the enclosed form acknowledging our agreement and return it to Great Plains with copies to Calgary and Vancouver.



EARL D. DODSON

EDD/VB

Encls.

Vancouver, B.C.
July 18, 1975.

MINERAL CLAIMS DATA

W. J. KENNEDY
R. SMILEY

I enclose data on:

(a) DALET PROJECT - C412

All material relevant to the application of assessment work from our 1974 drilling program.

(b) SNIPPAKER CREEK J. V. - C421

Data on the new claims (Poncho #1 - #6 inclusive) staked in October, 1974.

DAVID ARSCOTT

DA/VB

ENCLS.

Memorandum

Vancouver, B.C.

December 31, 1975

PROJECT NO. C421
SNIPPAKER CREEK
1975 REPORT REVIEW

E.D. DODSON:

A 1" = 400' geological map was produced in 1975. The large geochemical (Cu) anomalies defined in 1973 were attributed to "accumulation" at a break in slope beneath weakly mineralized hypabyssal rocks. A process of felsitization which I take to be hydrothermal bleaching along fractures is the main evidence for a porphyry copper system underlying the property. To follow this line of reasoning to its conclusion and to test the idea, deep drilling will be necessary. Risk that an economic deposit exists under the claims is obviously very high.

I can't find any particular reference in the reports to the Mo anomaly which exists in the south part of the property apparently underlain by quartz diorite. The geochem lines are 800' apart in this area so contouring doesn't mean much. A substantial area with "anomalous" values is indicated. In addition, a gossan has been mapped in this generally overburden covered area.

Most "Stikine" porphyries are Mo poor and related more to the sub-volcanic rocks than the acid intrusives. Thus the area described above doesn't fit the model that Great Plains puts so much emphasis on.

My feelings about the area and the joint venture have not changed. The risks are very high and exploration is expensive. This one apparently Mo rich area deserves some attention however. I've often wondered why Endako and Atlin sit on the East side of the Coast Range with nothing else to speak of in between.


J.W. SIMPSON

JWS:kin

file in
copy in C421
copy in C427

February 5th, 1976

Mr. N.W. Reynolds,
Norcen Limited,
27th Floor,
715 - 5th Avenue,
Calgary, Alberta.

Dear Mr. Reynolds:

We have reviewed your proposals for 1976 field work on the Stikine Joint Venture. As you are aware we do not wish to proceed with deep drilling at Ball Creek and since this is about the only meaningful work that could be done, we suggest no work be done at all in 1976.

At Snippaker, we do not wish to carry out the program as recommended but once we have studied the rock samples Mike McInnis is sending, we will discuss an alternative program with you.

We do not wish to participate on the Split Creek project.

The Mount Dunn property would benefit from some geology and additional sampling (trenching?) but the proposed program seems too expensive. Could you reconsider the program on a more basic level, possibly without geophysics. You are in a much better position to propose a reduced program than we, so please let me know your thoughts on the above comment.

We agree with your proposal for reconnaissance but would like the opportunity to review basic geological data, in hand, prior to defining the specific program cost and the method of operation. It might also be possible to utilize some Standard Oil research equipment and expertise for the ERTS portion of the study and we are presently investigating this.

Yours very truly,
CHEVRON STANDARD LIMITED,

E.D. DODSON

EDD:kin

Norcen
Energy Resources Limited

715-5th Avenue S.W.
CALGARY, ALBERTA T2P 2X7
Phone (403) 231-0111

Snippaker Creek

10th February, 1976.

Mr. Jim Simpson,
Chevron Standard Ltd.,
833 Marine Building,
355 Burrard Street,
VANCOUVER, B.C.

Dear Jim:

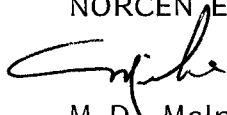
I have sorted through our Snippaker rocks and have collected those rocks which are in the general vicinity of the molybdenum anomaly. Unfortunately, it appears that two boxes of Snippaker rocks (as well as some others, I might add!) have been lost or misplaced during the change in buildings. I would have liked to locate A17, A20 and G9 (refer to "Geology of the Kim Group", 1"=400'); however, they appear to be with the misplaced boxes.

It doesn't appear that the enclosed rocks will be that instructive. Samples C-8, C-4 and H-6 are all taken near the major northerly trending fault and the textures are not clear. Sample G-19, taken from the same outcrop as G-19A, is most typical of the exposed intrusive rock in the area. The texture and alteration are similar to most of the intrusive rock in that area which has not been modified by tectonic overprinting.

I hope these can be of some use to you. If there are any other rocks noted on the map that you would like to examine, please notify me and I will attempt to locate them for you.

Yours very truly,

NORCEN ENERGY RESOURCES LIMITED



M.D. McInnis, P. Eng.,
Regional Geologist

MDM/jda

Enc.

Suppaker Creek

NORCEN
Energy Resources Limited

RECEIVED

FEB 18 1976

Minerals Staff
CHEVRON STANDARD LIMITED
VANCOUVER OFFICE

10th February, 1976

Mr. Jim Simpson
Chevron Standard Ltd.
633 Marine Building
355 Burrard Street
VANCOUVER, B.C.

Dear Jim:

I have sorted through all Snipaker rocks and have collected those rocks which are in the general vicinity of the molybdenum anomaly. Unfortunately, it appears that two boxes of Snipaker rocks (as well as some others, I might add!) have been lost or misplaced during the change in buildings. I would have liked to locate A17, A20 and G3 (refer to "Geology of the Kim Group", 1969), however, they appear to be with the misplaced boxes.

It doesn't appear that the enclosed rocks will be that instructive. Samples C-8, C-4 and H-8 are all taken near the major northerly trending fault and the textures are not clear. Sample G-19, taken from the same outcrop as G-19A, is most typical of the exposed intrusive rock in the area. The texture and alteration are similar to most of the intrusive rock in that area which has not been modified by tectonic overprinting.

I hope these can be of some use to you. If there are any other rocks noted on the map that you would like to examine, please notify me and I will attempt to locate them for you.

Yours very truly,

NORCEN ENERGY RESOURCES LIMITED

[Signature]
M.D. McInnis, P. Eng.
Regional Geologist

MDM/jba

Enc.

February 25, 1976

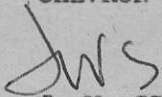
Mr. M. McInnis,
NORCEN Energy Resources Limited
715 - 5th Ave., S. W.
Calgary, Alberta
T2P 2X7

Dear Mike:

Thanks for sending along the rock samples of Snippaker Creek. I return them so your collection will not be more seriously depleted than it already is. I can imagine the movers getting tired of carrying rocks all over the place.

I expect to be in Calgary in early April and will look forward to getting together then.

Sincerely,
CHEVRON STANDARD LIMITED


J. W. SIMPSON

JWS/VB

C421

February 26, 1976

Mr. Norman Reynolds,
NORCEN Energy Resources Limited,
715 - 5th Ave., S. W.
Calgary, Alberta
T2P 2X7

Dear Norm:

We have examined the rock specimens that Mike McInnis sent us from the Snippaker Creek property. As Mike pointed out, there is not much to be seen with the exception of some chalcopyrite and porphyritic textures. Much of the alteration could be supergene but this is not a discouraging factor.

I would like to propose an alternative program for the Snippaker property which would include fill-in geochemical sampling at various soil horizons, prospecting and minor hand trenching where overburden is thin. This work would take about 10 days and cost approximately \$4,500.00.

This small program might be an opportunity for some of our staff to become more familiar with the area. If it is agreeable to you, we could arrange to do this phase of the field work.

Yours truly,
CHEVRON STANDARD LIMITED

EARL D. DODSON

EDD/VB

Vancouver, B.C.
March 26, 1976

SNIPPAKER J. V. - C421
1976 PROGRAM

EARL D. DODSON:

Norcen seems agreeable to us doing the prospecting on the KIM mineral claims. Mike McInnis would like to have one of his people along to maintain continuity. His figures are slightly higher than mine (about \$6,500 vs. \$4,500) for a 10-day period.

We should discuss timing, staffing and budget and then write Norcen a letter.

J. W. SIMPSON

JWS/VB

421

April 6, 1976

Mike McInnis
Great Plains Developments
715 - 5th Avenue S.W.
Calgary, Alberta

Dear Mike:

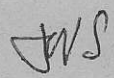
Attached is a proposal, as discussed last week, for exploration at Snippaker Creek.

I contemplate doing this job sometime in August and will be in touch with you when a firm date is defined.

I'm looking forward to seeing you soon in Calgary.

Yours truly,

CHEVRON STANDARD LIMITED



J.W. SIMPSON

Encl.

JWS/god



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

715 - 5TH AVENUE SOUTHWEST, CALGARY, ALBERTA, CANADA T2P 2X7

JWS. E
AREA CODE 403
TELEPHONE 231-0111
CABLE ADDRESS
"GREATPLAIN"

13th April, 1976.

RECEIVED

APR 21 1976

Minerals Staff
CHEVRON STANDARD LIMITED
VANCOUVER OFFICE

Mr. J. W. Simpson,
Chevron Standard Limited,
833 Marine Building,
355 Burrard Street,
VANCOUVER, B.C.
V6C 2G8.

Dear Jim:


Re: Alternate Program Snippaker Creek Area, B.C.

We are in receipt of your letter dated April 6th, 1975 and the enclosure wherein you have proposed an alternate program on the Snippaker Creek claims for the 1976 field season. Accordingly this letter will acknowledge that Great Plains Development Company of Canada, Ltd., is accepting your alternate program and will participate in the execution and completion of this program consistent with our participating interest as set forth in our joint venture agreement dated January 1st, 1971.

Best of luck.

Yours very truly,

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.,


N.W. Reynolds
Vice-President, Mining

RJM/jda

cc: Chevron Standard Limited,
400 - 5th Avenue S.W.
Calgary, Alberta.

Attention: T.M. Dougall

M-421

March 18, 1977

E.D. DODSON:

RE: SNIPPAKER CREEK

A very recent, well supported estimate of demand and supply of copper for the next 14 years concluded that production from new porphyry copper deposits will not be needed until 1985-1990. At that time anything we find will be in competition with deposits like Valley Copper, Javelin, etc.

To find a deposit of that quality by 1985 will require substantial investment in a systematic way starting within the next 2 - 3 years. Thus continued holding of Snippaker could be justified if necessary on the basis that it is a 'head-start'.

The next question is whether or not Snippaker would be the best place to start up in 2-3 years from now. Given access problems and average grade for the Stikine area deposits, I tend to think negatively.

Getting to more practical matters, I think an I.P. survey would be money out the window. Deep weathering, pervasive pyrite in the volcanics, extensive kaolinization all conspire to make interpretation difficult. If we are not prepared to drill test to aid interpretation and locate some grade, we shouldn't waste our time and money going half way. No target will emerge that we can sell to management.

From a geological point of view, I was unimpressed when I visited the area in August 1976. I felt the gossans probably resulted from weathering of disseminated pyrite in the volcanics. Alteration is quite likely supergene. Lithologies indicate an environment peripheral to a porphyry system (vertically or laterally). Copper staining is locally visible but it isn't impressive. Fracturing, on the other hand, is often very strong. Quartz veining is not abundant.

When I add all this up I conclude we should drop the claims.

J.W. SIMPSON

JWS/gms