## PROSPECTING REPORT

# SYENITE CREEK (UPPER) DRAINAGE SYENITE RANGE DAWSON MINING DISTRICT YUKON 115/P/14

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PAUL R MALKIN
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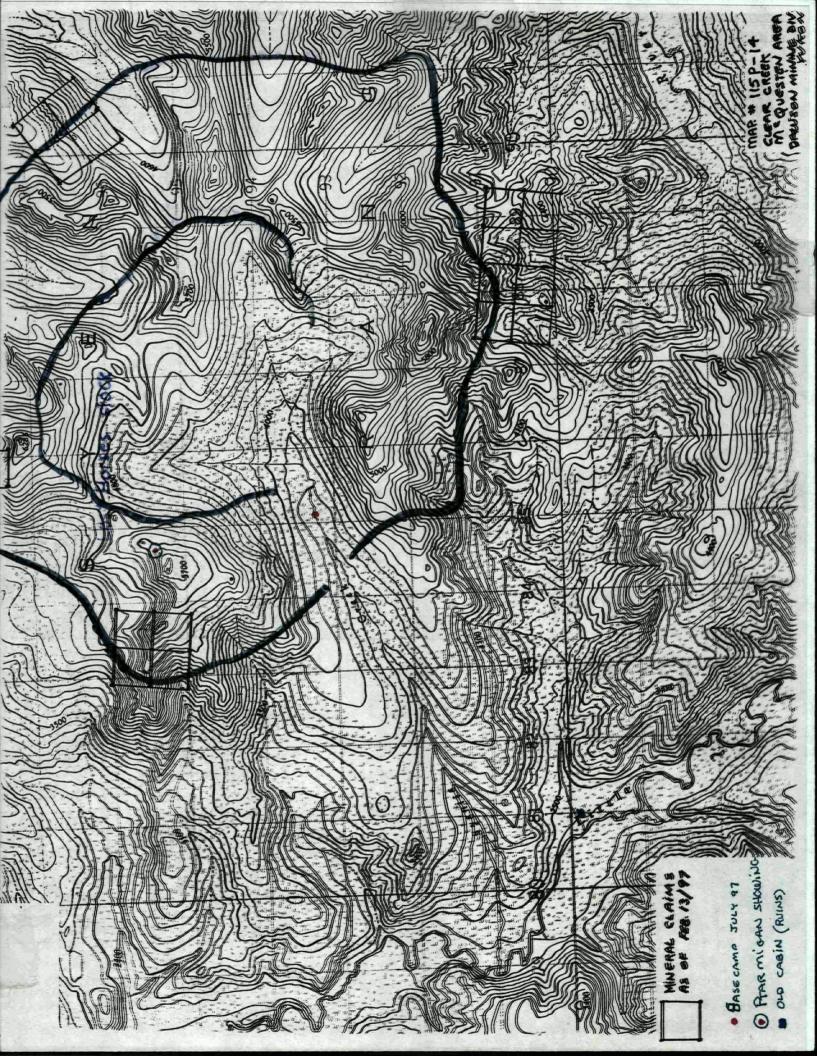
JULY 1 - 25, 1997

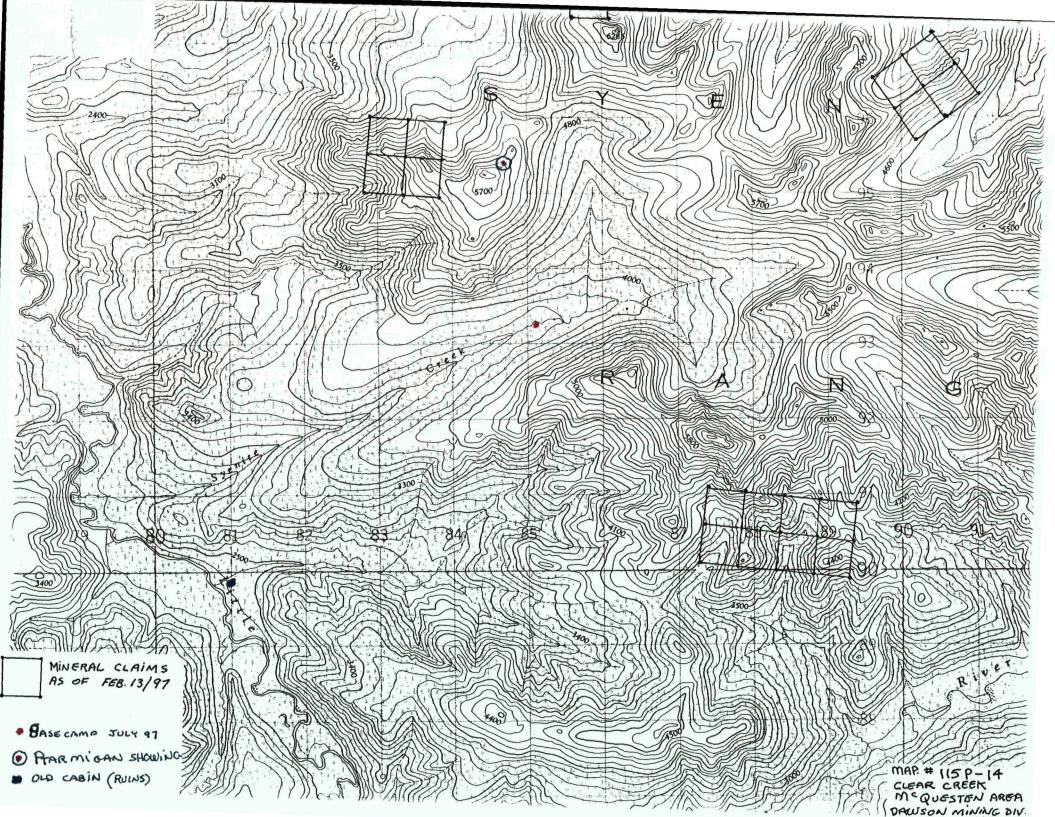
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## **CONTENTS**

- 1. Location map of Yukon.
- 2. Map of Syenite Creek Drainage.
- 3. Air Photo of Prospected Area
- 4. Summary: a) Location
  - b) Access
  - c) Geology
  - d) Prospecting
- 5. Conclusion.
- 6. Acknowledgements.
- 7. References.







HER MAJESTY THE QUEEN IN RIGHT OF CANADA, DEPARTMENT OF ENERGY, MINES AND RESOURCES.

1) (Figs Man)

2) (Fig k)

5) (Fig E)

7) CAMP

3)(Fig.1)

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#### SUMMARY

#### a) Location:

The geographical location of this report is in the Syenite Range (fig. B), 105 km south-east of Dawson City, Yukon (NTS 115/P/14 and NTS 116/A/03) Within this Range is the Syenite Creek drainage (fig. B). Syenite Creek drains south-west into the Little Klondike River, some 17 km. south-east of the confluence of the Little Klondike and Klondike Rivers

#### b) Access

The access to this project was by helicopter from Barlow Dome on the Clear Creek road, approximately 24 km. to the south

#### c) Local Geology:

The area prospected is within the Lost Horses Stock and the area of contact around the Batholith. The Lost Horses Batholith of the Cretaceous period is approximately 8 km in diameter

The Lost Horses Stock is a zoned intrusion the inner core quartz rich syenite approximately 2.5 km in diameter with a k-spar rich syenite rich outer border (fig. A). The contact between the two is gradual. The contact between the stock and the sediments is well defined in the exposed areas such as the ridge tops to the west and east of the Syenite Creek drainage (figs. C and D). Within the drainage the contact is poorly defined due to glacial alluvium, slope wash, slumping and talus covering the valley floor. The east ridge slope is covered by heavy talus (fig. E). The ridge top is heavily weathered. This weathering has produced some eccentric forms ('Hoodoo's'). Some are quite awe-inspiring (fig. G) – notice assistant beside example of such a structure.

The talus slope of the east ridge is very unstable and covered with black lichen. Both conditions when wet are very hazardous under foot

The upper reaches of the syenite drainage are mainly devoid of trees due to elevation and poor soil conditions

#### d) Prospecting

- 10

The Base Camp was set on a knoll 30 metres east of Syenite Creek (see both map and air photo of drainage). Access to the upper reaches of the drainage was either from the ridge walls, ridge tops or along the valley bottom.

Within the east slope talus, erratics covered with a heavy gossan (mostly limonite) were found. One of these samples (fig. H) is mostly quartzite with arsenopyrite. The source of this float could not be located, as the upper reaches of the ridge slope were too unstable, due to saturation from the heavy rainfall in July

The west ridge was prospected by traversing south-west from camp to the shoulder of the ridge, then climbing up along either the west or the east flank of the ridge. The west flank was the more challenging route due to the concentration of surface scree.

The west flank area is indeed a more geologically interesting area. The rock on the shoulder of the ridge is weathered metasediments (figs I and J). The west ridge flank is very rough and covered with heavy talus, even in areas where the slope is gradual. Fig. K shows an area of relatively gradual relief covered with blocks of weathered syenite granite.

The east slope (of the west ridge) has significantly less talus, thereby providing easier access to the area of interest (fig M)

Along the ridge crest weathered syenite forms unique sculptures, such as the formation seen in fig. L.

One area on the west ridge was of particular interest (fig M)
Approximately 50 square metres, the area is seen as a bleached anomoly
This bleaching effect is due to the lack of lichen growth on the talus, as
this area is generally covered with patches of snow most of the year. Air
photos show this area under snow pack. Within this bleached zone can
be found a number of mineralized boulders and gossan-stained soils
(fig. N). See photos of samples # 700-R and # 600-R

Also present are samples of Gabbro (# 100-R), associated with the Hornblende It is unknown if this occurance is a dike, stock or lopolith. Further investigation is required to determine the geological classification of this anomoly

The contact zone within the Lost Horses Stock between the feldspar outer and quartz inner granitic deposits may prove a worthwhile host for future exploration

#### CONCLUSION

The Lost Horses Batholith is a significant intrusion within the Ordovician - Silurian metasediments of the Road River Group. The areas of interest are the contacts between the granites and the sediments, and those within the intrusion itself between the feldspar-rich and quartz-rich zones. Dikes and sills in the batholith and adjacent areas are also productive for exploration.

The abundance of exposed rock results in an intense prospecting experience. Although when wet the lichen-covered talus is very treacherous, and has to be traversed with care which slows down progress.

The author would like to return to this area in the 1998 field season with camp at a higher elevation, thus permitting investigation of the "Ptarmigan Showing", as well as the higher reaches of the Syenite Range. Furthermore, granophile mineral deposits hold significant potential, as realized by the recent "Fort Knox" discovery.

#### **ACKNOWLEDGEMENTS**

I would like to thank the Yukon Government, Mineral Resources Branch for its financial commitment, my son James Malkin for his help, company and great bannock, our dog Kanu for bear protection, and to the Creator for the magnificent geology to explore

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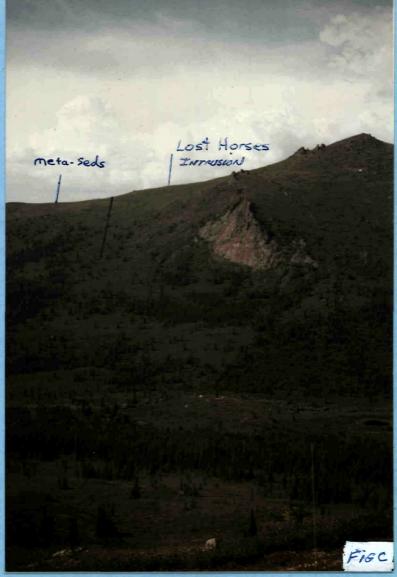
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Exploration Noranda Exploration Report on the Zeta Property,

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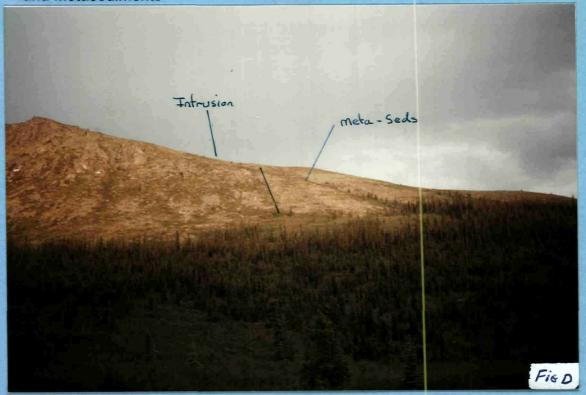


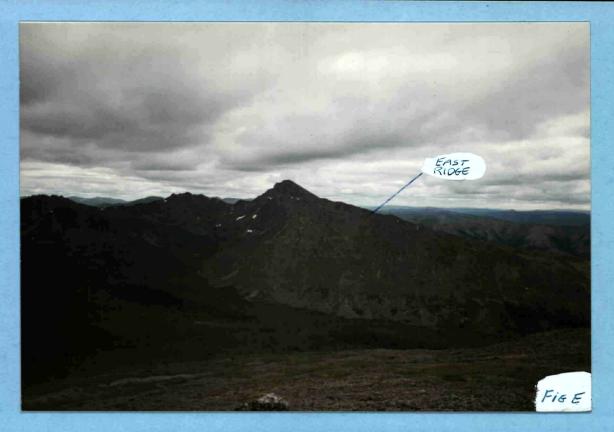
(Fig. B) Syenite Range. From Barlow Dome, Clear Creek road.



(Fig. C) West Ridge. Showing contact; notice base camp in center of photo.

(Fig. D) East Ridge, showing contact between Lost Horses Stock and Metasediments





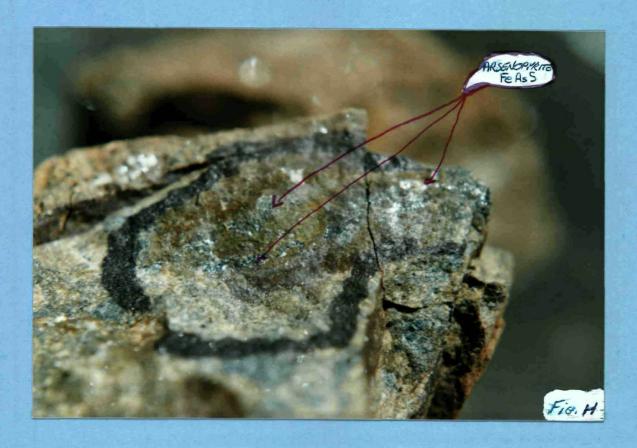
(Fig. E) Looking east over Upper Syenite drainage.



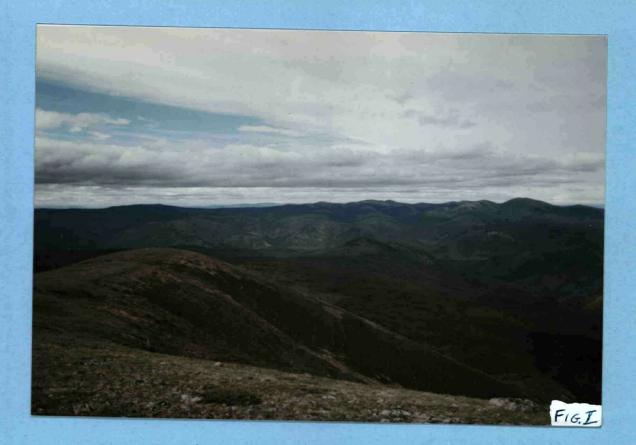
(Fig. F) Upper Syenite Creek drainage. Confluence of Syenite Creek in foreground and smaller creek from the west.



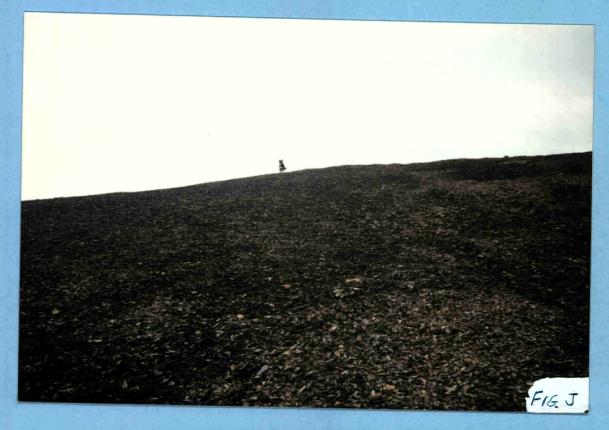
(Fig. G) Weathering on East Ridge.



(Fig. H) Quartzite float containing arsenopyrite found on East Slope.



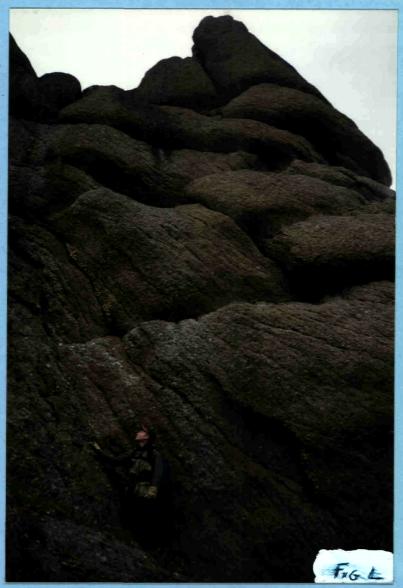
(Fig. I) Looking south form West Ridge. Over ridge shoulder notice weathered syenite foreground and metasediments beyond the contact.



(Fig. J) Weathered sediments.



(Fig. K) Rock garden on West Ridge.



(Fig. L) Weathered syenite.

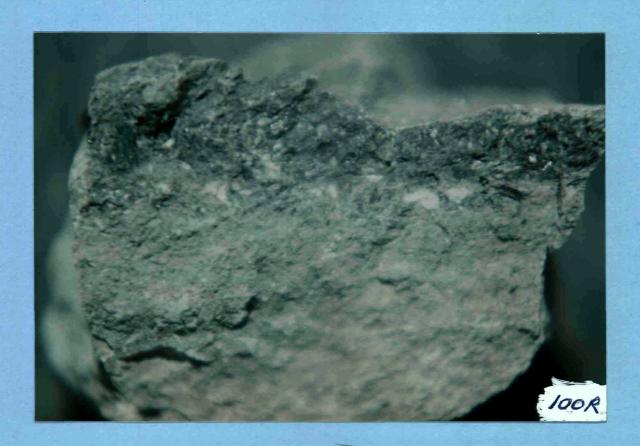


(Figs. M & N) Ptarmigan zone (showing).

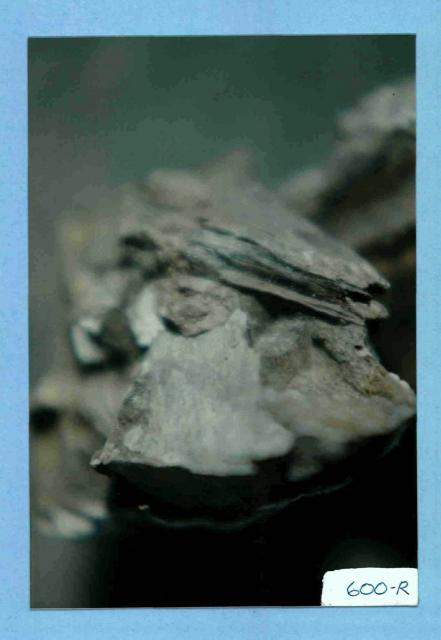




Samp. #700-R; Hornblende.



Samp. #A 100-R; Gabbro.



Samp. #600-R; Actinolite



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INTERNATIONAL PLASMA LABORATORY LTD

Client Northern Analytical Laboratories **7 Samples**Project P0#332333 W0#7910

7 Samples 0ut Sep 22 1997 Page 1 of 1 [091012 29 03 79092297]

8 Page 1 of 1 [091012 29 03 79092297]

9 Page 1 of 1 [091012 29 03 79092297]

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	-	-	Mo ppm		Bi ppm	Cd ppm	Со ррт	Ni ppm	Ba ppm			V ppm		La ppm	Sr ppm		_	Ti %	A1 %	_	Fe %	Mg %	K %	Na %	P %
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PT B200R	Ρ	0 2	12	10	14	6	10	<	16	<	<	0 2	1	3	23	<	166	5	35	36	7	1	<	<	0 06	0 03	0 83	0 01	0 01	0 02	0 03
PT C300R	Ρ	1 0	89	12	28	<	14	<	82	<	<	0 1	3	17	597	<	83	15	325	337	42	4	1 (	02	0 42	1 12	3 07	0 27	0 29	0 02	0 15
PT D400RS	Ρ	0 5	20	38	145	<	5	<	8	<	<	0 2	12	15	869	<	67	70	1292	71	47	1	8 (	09	2 30	0 65	4 71	0 87	0 29	0 02	0 22
PT E500R	Р	0 7	31	10	52	<	12	<	33	<	<	<	1	1	74	<	74	140	65	33	9	3	2	<	0 46	0 05	147	0 02	0 01	<	0 33
PT F600R	P	0 2	5	9	42	<	5	<	2	<	<	0 7	1	2	176	<	42	62	1112	20	64	2	5 (	01	0 15	3 16	2 32	0 79	0 05	0 03	0 58
PT G700R	P	0 2	8	12	37	<	<	<	10	<	<	0 3	1	4	85	<	83	18	192	45	26	3	2	<	0 65	0 85	1 66	0 16	0 03	0 03	0 34

# July was a wet month in Yukon

The Yukon had some wet weather last month

July started out hunky dory with a ridge of high pressure covering all areas bringing some of the best weather of the summer

Unfortunately unless you re an ice cube this only remained until July 6 when a cold front bullied its way into the northern Yukon

By July 12 a trough had developed over Alaska It combined with a low in the Gulf of Alaska to dominate the territorial weather for the next 11 days

On July 23 a trough devel oped over northern British Columbia and a ridge built over central and northern Yukon

This ridge slowly weak ened and for the last three days of July a trough covered all of the territory

The result was a cool and wet month north of the Ogilvie Mountains and gener ally a mild and wet month to the south

Rainfall aside it was a pleasant month in Whitehorse

The monthly mean daily temperature was 15 Celsius one degree above normal

The scorcher for the month

was July 2 which reached 26 degrees on 22 days the tem perature reached 20 Celsius or better

The weather was not extreme

No temperature records were challenged

The high daily mean was a boon for growers

July had a total of 309 4 growing days compared to the normal of 277 7

Gardeners and agricultural ists have enjoyed 638 3 growing days since April 1 which is well above the normal of 548 2

Above normal rainfall also helped out agrarian types

51 4 millimetres of precipitation fell to earth 134 per cent of the normal of 38 5 mm

In 1988 a record 109 6 millimetres fell over 22 days

In 1971 only 5 6 mm of precipitation was recorded

The heaviest rainfall occurred on July 31 with 99 mm

Precipitation was recorded on 16 days three more than normal

Winds were light as they have been for the last five months

July s mean wind was 9 3

kilometres per hour compared to the normal of 10 6 km/h

While things were hot and wet in the southern Yukon temperatures were low in the north

Eagle Plains had the great est negative departure from the monthly normal dropping 1 6 degrees

Old Crow was 0 8 of a degree below normal

At the south Ogilvie River and Klondike stations the dai ly mean was slightly higher than normal

In the central and southern Yukon daily means ranged from 4 Celsius above at Stewart Crossing Swift River and Watson Lake to 15 Cel sius above at Teslin and 19 degrees above normal at Ross River

Blanchard River was 4 of a degree below normal

This station also had the lowest mean daily temperature at 10 9 Celsius

Mayo had the highest mean temperature at 17 2 degrees

Dawson City had a mean of 16 8 degrees

Most maximum tempera tures were in the mid to high 20s but two stations reported a maximum of 30 degrees Dawson City on Canada Day and Carmacks on July 2

No minimum temperatures below zero were reported

Eagle Plains got the coolest with a temperature of 5 Cel sius on July 29

As in the south precipita tion in the northern Yukon was generally above normal

Aside from a region from the Ogilvie River station through the Klondike station to Stewart Crossing and Car macks where precipitation was from 52 to 89 per cent of normal it ranged from 103 to 210 per cent

The wetness has kept the fire season quiet

Only 95 fires had started by the end of July compared to 135 burning last year

Only 10 124 hectares have burned compared to 90 408 last year

Beaver Creek was the wettest with 166 9 millimetres of precipitation Tuchitua had 151 2 millimetres over double their normal amount

Ogilvie had the least pre cipitation at 30 1 millimetres

The most precipitation in day was 36 7 at Eagle Plains on July 23

MALKIN PR 99-11

97-011

WED JUL 42/47 SYENITE CRK TU CAMP 38 M.S SAMP ROCK 550 CONT LNOtoo CORRE JULY 4 FRI SAMP, SYENITE # 0+00 TALUS SOUTH SIDE OFF VALLEY WEST O CONFEST /2 SAMOLEGAN 9 SYNGUITE JULY & SATI SAMP OLO 1 VALLEY FLOOR ABOVE CAMP JAMP 0+02 ERK DRAIN AGE ESCARPMENT AT WARE HUAO. SYENVIE GER SERY SAMO 10+03 ALMOST AT TOP OR DRAIN AGO

Oule 18 Day 18 Good 3 Day 8 SE RIDGE TOP ABOUT CAMP BETWEEN SYENITE CRE AND DRAINE. TU PHE SE 100 86 5. Klossofe Cure Tr.k Ringhs RIDGE SAMP ROCK / too RIDGE 60° E and 280 m FROM COUNCY RIDER SAMP ROCK 2400 n 200-100m Down diese than contact

800 JULY 19 DAY19 Found dyke material in N. ridge talus high or mt Zeta. Hrea toward 5 about ion below ridge crest on East side of ridge area has NE exposur and still had snow on part of it, Strong gossan with many different n soil min'eralized bodders around Ptarnigon Showing SEMPH Pt-Aloo R Rock P+-B200 R ROCK Pt-C300 a Rock Pt. D 400 S SOIL PT. E500 R ROCKS PT-FGOOR ROCK A PT-6700R ROCK

LEVEL

DAY 19 JULY 191 HOWD DYKE MATERAL ABOVE SCREAMER CEARING METTO SEDS LEVEL

Day 18 SOIL Rock Tup. COLOUR Soil SAMP CRK GREYISH 1 000W W ENE NIA BROWN CRH GREY 00/W FINE BROWN BRUN KINCE W 002 DRAWAGE BLACK GAME. ,003W FINE TRAIL 1004W W . . 1005 J . • CRKW COARSE GRAVEL SycateCrk SYENITE. FINE RKW SILT **JEAKIN 312 R/R LEVEL** 

LEVEL

Ouly 18 Day 18 George July 11/97 Day 11 -0 NW SIDE OF SYENITE CRK SAMP 3+00 ROCK IN SED 3+00 50K IN GIPOSE SED SCUFF ROCK IS SHARE LIKE IN SHAPE POSTS FOUND ON TOP OF NN SYENITE RIDGE Post 2 Screenise 4 JUNG 15/97

ON SHAWN RYAN

SAME DUST Post 1 either end? ANDREW ROBINSON. IS THIS STAKING? ONLY a POSTS HAVE ANYPRIME WRITTED ON THEM

YMIP MALKIN BR. 97-11 MON JUNE 30/97 JAMES 91 PACKED TRAILER BOUGHT LAST SECOND THIKES TUES JULY 1/97 : 000 DON'T LEFT WHSE a 730 Am. ARRIVED BARLOW Dome a 200 pm, HELICOPTER ARRIVED AT 2,50 LUADED HELICOPTER WITH LIGHT GEAR ADAM MORRISON PROT JAMES MALKIN FEILD ASSISTANT 4 MYSELF FLEW INTO SYENITE CRK DRAINAGE FOUND CAMBITE JAMES, MYSELE ANG CEAR OROPPED OFF, HELICOPPER WENT A PICKED OD HEAVY GENRIN SINC BRENGHT IT SEEIN TO US WE O'VEONING CERR LEGADEN SCINC AND THE

HELICOPTER LEFT. WE STANTED

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ON THE CONTRET OF THE LOST

HURGES BATHERITA & METTA

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WED JULY 2/97 END

DAY 2

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camp at 630 had and went to bed arrived Thurs. July 3/97 Em 5 prepared see a four day trip up the far entloof the Dyanite in. drainage to the west to check the preasof The Regional Stream sediment survey of samples & and a comp Fri July 4/97 Day 4 Headed south west up to the contact above our itase carry, the east along

the south side of carling in the laters the full distance to the constituence of reservation Oak 9. Peak Oak (cl have guer this name in reference to the drainage it suves the are approxim ME of our back camp. Panya 0100 TAUS S. was found i an area of the talus that was mostly signete with large E plagoclase prystals em wise and Gen long. The semple rocks seam la be a quartire type with way steary to your. Buy are bad

Sat July 5/97 Day 5 Digs

Marted hiking a 1030 up into the Eastern and of the

the south side of valley in the talus the full distance to the confulence of Agenter Crk 9, Peak Crk (cl have guer this name in reference to the drainage it sures. We are approx 1 km N.E. of our base camp. Sample 0,00 TALUS S. was found in an area of the talus that was mostly synite with large plagoclase supstals em wise and Gen long. The sample rocks seam to be a quartire type with very steery te yossen. Buy are bad" Sat July 5/97 Day 5 Digs Marted Riking à 1030 up into the Eastern and of the

drainage (Signili) Talus talus and more talus went high into a hanging valley at for end of drainage. Country is buch bust and talus. Jalus is grantic some more quark rich mostly with larger phena cright of feldspor. I would like to explore this area (high end) more sheroughly. Josh a sedy sample in she creek flewing out of NE hanging ralley (# and one from the Symili Cre out of the SE youd # (If camp a) 750 eschansted at 800 tired

Sun July 6 Day 6 @ @ . Headed back toward base sump covered same rente only lower in the Talus when on Day 4 tried to such up float lower in the talus from our find the other day we couldn't find any I decided that traversing this tales with full over night packs is too clangereris due to the loosness of some of the talus I am concerned of broken legs, emples ut Delide to hihe back to base comp to neuse our feet and prepare for a day hite back into the area of the flood for more samples il wereld

also like to walk the sidge high above this lales as the contact between The meta seds and the syerite contact is close to this area I must say James my helper and sen is doing very well and enjoys the perils of projecting. Mice to be sleeping in a big Lent again mon July 7 Day 7 - 0= Stayed in camp today ded laundry and fisced equipment tommerrew we will go back along senth east wall (talles and walk the talus and look for the Becation

fload ferend on Day 4 Lues July 8/97 Day 8 6 (1989) Ioday was a very difficult and dishearling day, We went up the valley to relocate the talus where we found the sulfide fleat powerer the weather com closed in and began to rain, as the talus all through this vally is covered with litchen it begane servis walken on such With such slying conditions of decided we should go down in elevation and

and make our way back to camp, heavy thunder steady run for the rest of the evening, We did find wen slaving quent; float today and a recent slumping high in The Talus giving a really good toposine of syenite speshly squared Wed July 9/97 Day 9 - 0:00 Today we went up all the way to the ridge to the south east we hicked all the way into the next drawings to the south see photo # ( )

280 m fremuntant tound an expasure of chert and karolist synt Kork semple ridge 100 SE also ento the centares 100m the mediosedinents a sumple of sulphides in the sedements: chronolible resently from up on the redge you aun see for miles and miles : Hot buck at 780 had suppin Thurs July 10/97 Day 10 35 CRK DAY

Dri July 11/97 Day11 de 18 We went up the NW side of the valley loday shrengt heavy buck bush forend ce game tract that really belower on the mid slope. Jook a sample 3+00 xx Rock a Doil about a 100m for the lop of the ordye, The wind was very strong on the shoulder of the ridge. Kidge shoulder is all sederents anglere and slabs semewhat like shall

on the sidge crest we Dereumer claims the worst gold staking et have. ever see no flagging no noch courn just posts threen on the greend see picture (# ) Considering they were dated less then a month ago not good. elt were desappointing for us to have slugged it one to the top of the redge only to find this. Good day anyway James wohed supprer freut o Dut Duly 12 Day 12 way day

2 12 NOON.

Dun July 13 Day 13 ESO: CO Went back to the now well known laters of the N.E. wall. Jarend le few quantite pyrite pieces in the lalus around same area as before. el believe this will be our last bungerse in this talus as it is quite losse in places and very dangeres There are many places where new loose has come down from the top

Toe of the Talus a long way a 1000 from The Top to the Toe of the talues, We frend the largest bear seal el have ever near Today - old 2 who and of the min. July 14 Day 14 Day 14 Stayed in camp today to do laundry, have a good wash and the last half of the Syenile Program 97, We are starting to get good at improvesing with what we have. Hance (the dog) always seems to find sometheing horrendens to roll in to change her seent.

personally cl find her seent when she's wet affensive enough but she thinks adding some animal servel merrement as an redded deterant. She does forged that she sleeps in our kamp and when we are oned in the feeld it makes it hard to avoid her subting up against us Do away Kanu is our call of the wild I do consider having her here a blessing for our protection around camp. bears etc - warning us of such. July 15 Jues. Day 15 1 Started out early for

The top of the drainage Syenile Peak area, however weather got increasingly werse so we were forced to turn back. a good thing as it rained heavy all day till 7 pm and the clerido closed in around the vally so keeping our bearings would have been increasing hard never mind the rock underfest. Will see how the weather is temoral morning and go again. Wed July 16/97 Day 16 (30) Was awakened at 630 by Kanu letting us know in no unserlain lerms

That something was around shat she didn't like, I bolled up in bed gralbed the sifle and the day and myself bolted out of the tent. The rain had abaited some and The whole drainage was soched in fog our camp which is about 15m from our tent was barely visiable through the fog. Rame run down to the mek below our tenowhatever had been there went back down the drainage The dog barked for a while when when everything was back to very priend of the fact that her territory again was sufe.

I had a thought Today about the reason this side of the Food lourses Balholill is so weathered maybe the animalies on this side of the range are weather out roof pendount from the original entrusion into the sedimento Thurs July 17/97 Day 17 0000 Jook a look down the South west ridge into the medi sedo not much rock exposure below the tree line - look some soils up the drainage across The contact east past our camp to see if the contact

shows on a goodenical assey. Started to peru at 3pm so we headed buch to camp. must figure out some way to dry our clothes as they are for Secondary quite dang. Ini July 18 Day 18 23 Weather seems to be beaking - hope so we went down the creek today ( Degenile) took samples soils and nik sediments - bugs were something else . Ithink buy dope should come in containers the saye of scotch- guard cans then at least you could blow yourself up if the bugs got

to bad. Dat July 19 Day 19 2 - 18 Julie We started early and headed up the Northbert Redge up past the Scremen STAKETIC (See) on up the nedge heading for the summet of MI TETA in we almost make it a long have however we found an allered yene in a saddle on the redge about 30 m from the lop the more comprised of a ultramapie. dyke with lovermaline crystal and other meneral of have exit to edentify, we were about I km from the south Thave remedelis area Drawn 1600 soon.

found a piece of quarty what her in airseme fold nearly helled my son corry it in his pack. We frought a number of samples in teday. Sen July 20 Day 20 ESTE Jook today for a rest and we mapped the Marmegan showing-found it on the air photos. There is a very interesting fact aport this spot farea The P.D. is in an area that doesn't get any direct sunliger The rocks havent any lietter due to the fact that they are covered will more most of the year infact there

is snow on part of it as of yesterday July 19 on the an photos it is in ite shade also de believe their is a good neason inat it humb been reperted sefore - a small area covered in snew and as welfound out approachable only thru takes on the N.W. the N.E. side of the ridge is easier to traverse but you miss this spot as it is on The western side of the ridge over a saddle. mon July 21 Day 21 mental health day.

Que July 22 Day 22 A. Today was wet - we are having trouble drying out year at all James sigures that The way it is here most of the time of just can't See it il grew upon Stancouver Elsland and even I Then't this place is wet We have another problem our points of intrest are far removed from us at camp and in the high end of the valley which makes them unreachable, esgapt for on the nice days as travel in the later seconds.

Wed 23 Day 23 En today you can't see wet tent is starting to leak everything is damp but we percever. This is a now is to the heloughth being able to get iron Fri.

Constant of the second 1 HURS 24 Day 24

deavy rain today clouds are down to vally floor very miserable weather.

camp at 630 had supper raised the flag" and went to bed arrived Thurs. July 3/97 Enger presaud fee a four day hup up the far end of the Dymite Ch. drawage to the west to shock the areas of the Regional stream sectionent survey of samples H and Base Comp Day 4 a camp Ideaded south west up to the contact above our vouse carry, the cost along

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