

INTRODUCTION

This report describes grass roots prospecting on a Hobo Creek Trib, Big Creek Trib, and Josephine Creek

Location and Access

The area is approximately 75 km by helicopter from May, or an 80km four wheel drive road off the Klondike highway, access road; turn at the Barlow Dome road.

The road was roughed in from Clear Creek (left fork) to Hobo and Gem Creeks in the Seventies - early Eighties. The road has had some work done to it. Being a Placer Operation working on Arizona a tributary of Hobo Creek.

The main pass over to Josephine from Clear Creek is quite steep; 4x4 only, down Josephine approximately 6km. To access the road over to Big Creek, then down stream to Hobo. Access should be in summer at low water.

Climate

Winters are long with extreme temperatures (-30 to -50 degrees below zero) The summers are short (four months). There is little rain, and it is very hot.

Exploration Program

The exploration program included panning along _ _ _

Programs started at Josephine Creek

Lat 63 55'
Long 137 01'
NTS 115 p 14

At the head of Josephine Creek, bedrock is exposed for one mile. Result from panning were small, but a few micro colors were seen. Five kilometers down stream of Creek is approximately ten feet of over burden (gravels) to a very compact iron manganese stained gravels 1 1/2 to 2 ft thick and approximately two feet of (iron stained) red gravels under it.

Red gravels were panned with non positive results (colors). Samples were smashed up cemented gravels (black, channel). Still no colors observed.

Big Creek (Trib) or Little South Klondike River

The second area prospected was Big Creek.

At the mouth of pup, there is a 150 meter wide valley. (easy walk). There is also an old cat trail for travel. Heavy Boulders on surface are from one half a ton to a ton in weight. Boulders under red (iron) stained gravels to a small three inch and smaller directly under boulders.

A very minimal number of fly specks or micros of gold were seen in pans. Trend D.Ts were dug to a depth of 2 1/2 feet range, where permafrost on average generally occurred.

HOBO CREEK (pup)

Lat 63 58'
Long 136 53'
nts 115 p 15

The third area prospected was Hobo Creek. IT is a very narrow V shaped valley which is heavily scrubbed brush and black spruce. Pup runs approximately 1 1/2 miles up, to a flat, wide bench with a serviceable road over to Gem Creek. The material of bench consists of shale which drains into the pup.

The pup drains at a very steep gradient. Test holes dug on the pup every 100 meters contained one foot in depth. Pan results were hematite, small grained magnetite, shelite - barite - small amounts. The pup fork is one mile up then runs 1/2 mile each fork. Down near the bottom of the pup, less fine grained material, but huge blocks and boulders and chunks of quart. Hematite were up to approximately 100lbs. Pounding weights approximately country rock of area consists of sand or silt stone.

In all of the test holes (1st) 2 micros of gold were found.

At the mouth of the pup upstream ten meters of Hobo is 20 ft wall of gravels and organics. Five feet of organic 107+ of red gravel. Then one foot band of manganese stained gravels not packed. Red gravels under it. Pans produced no gold.

One mile upstream of Hobo left limit, another pup runs up approximately one mile. A flat wide valley, light scrub and easily traveled on foot. Lots of gravels in valley floor and benches. Few trees: poplar and spruce. Two test holes dug, and no colors were observed.

RECOMMENDATIONS AND CONCLUSIONS

JOSEPHINE CREEK

nts 115 p 14

Further exploration should be spent on this creek. The cemented black gravels are an indication of no glacial activity in the recent past. This creek drains off of some interesting hard rock, called the packed man sweet (plug) where Ug is found in the quartz. The lower end of where creek shows could have potential for a productive placer show and could be further explored with a track how (215-225-235) or the equivalent to reach bedrock should be drilled to get accurate depth.

BIG CREEK - Little South Klondike

nts 115 p 15

Lat 63 54'

Long 136 54'

This creek and its pups draining into it could be further explored, but due to water regulations as a fish bearing stream, could make accessibility very expensive (roads, bridges, etc..) Not worth the effort and water use and rights on obtainable any ways. But pups could be shafted due to the perma frost and possibly shallow ground. Approximately 12 to 20 feet deep. A drill would confirm that.

HOBO CREEK

nts 115 p 15

Mag have been mined out already, due to the nature of shallow ground. There is also signs of old cabins and some workings in the area. Turn of the Century to now. The work I've done on pup lat 63 58', Long 136 53' wasn't very exciting as well as results on other pups.

The hard rock on surface seems very fractured faulted. Mostly shales, sand stone the odd quartz mixed up nothing too exciting within a 3km survey of my own. I would not recommend the area to anyone else as placer is concerned.

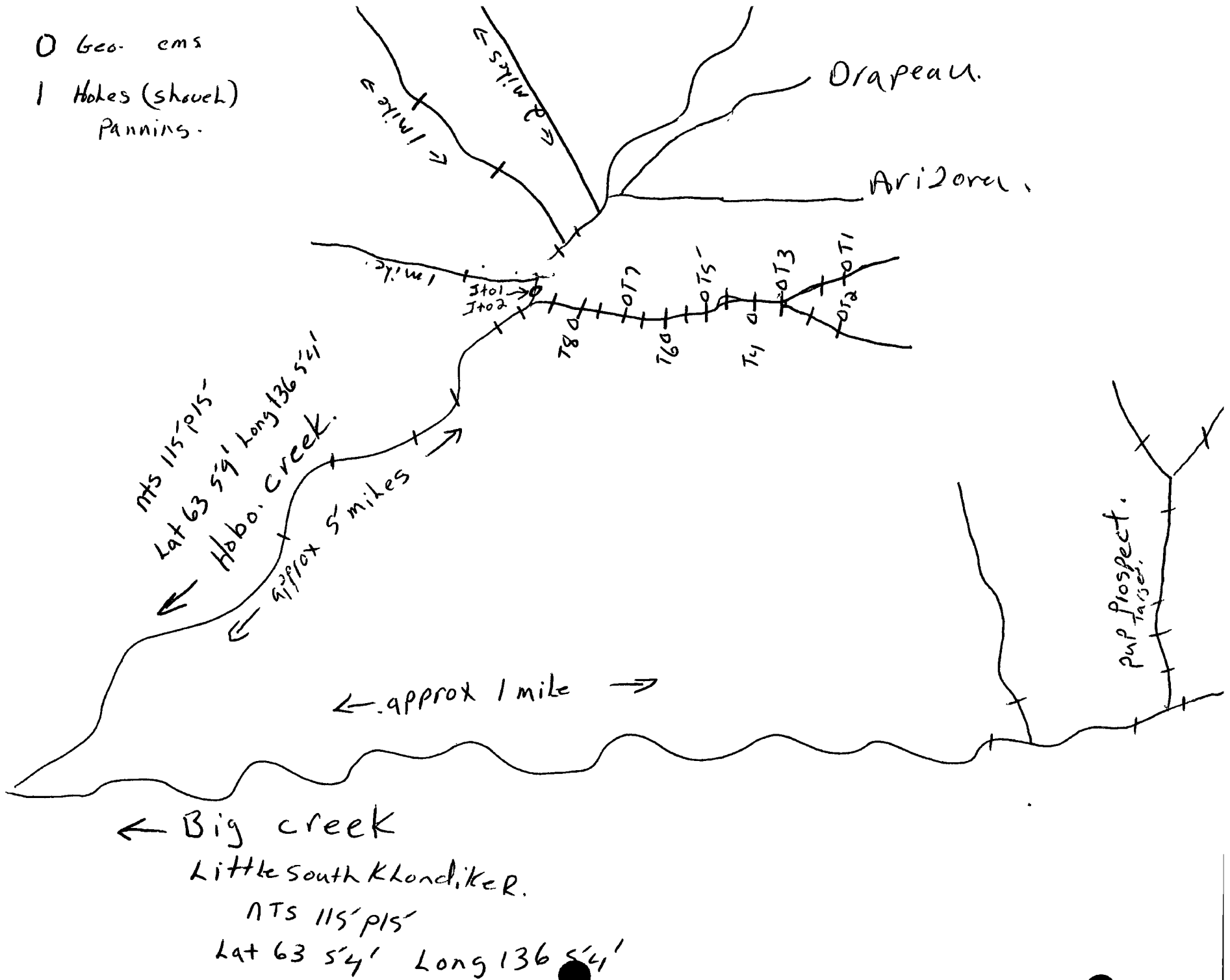
I would like to thank the Economic Development Branch for its funding towards grass roots prospecting.

Also Karen Pelletier for her door was always open. Her willingness to help and answer any questions was greatly appreciated.

Many thanks,

Douglas Jackson.

0 Geo. ems
1 Holes (shovel)
Pannings.



Yukon Territory
Area: 478,034 sq. km.
Population: 25,000
Capital: *Whitehorse*

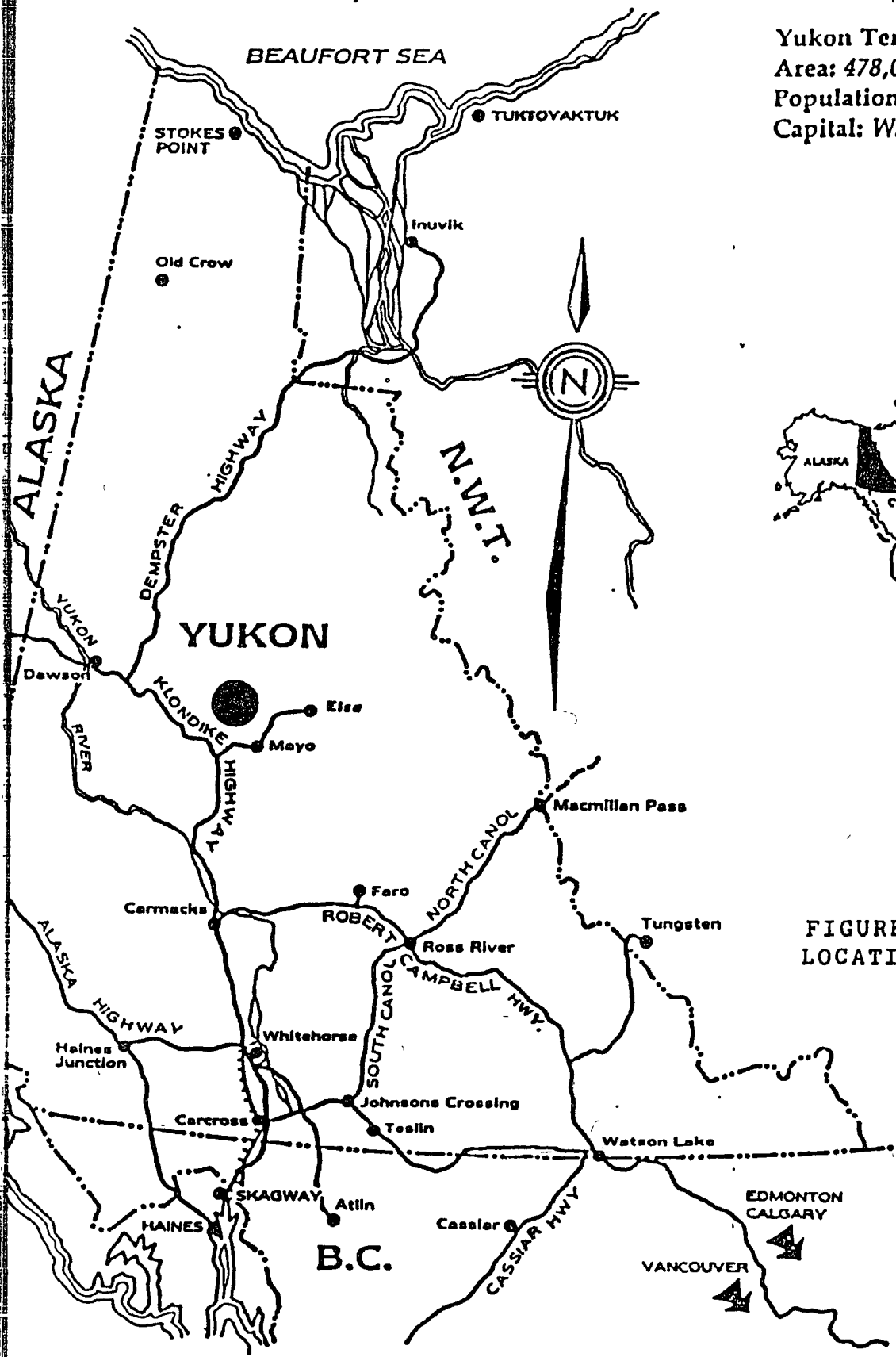


FIGURE 1
LOCATION MAP

EDMONTON
CALGARY
VANCOUVER

IBCT
Computing
Centre

BLU LINE

DATE October 14 19 94 47709

RECEIVED FROM Mr Douglas Jackson

ADDRESS _____

Fifty-one ~~30~~ DOLLARS (\$ 51.36)

FOR Word Proc. of reports for submission (1.5 hr)

FROM _____ TO _____ TAX REG. NO. _____

METHOD OF PAYMENT		ACCOUNT		
CASH	51.36 ✓	TOTAL AMOUNT	48	00
CHEQUE		GST AMOUNT PAID	3	36
MONEY ORDER		BALANCE DUE	51	36

Rec'd. BY Jamie

25464

GST REGISTRATION NO.:

NAME DOUG JACKSON	DATE OCT 11 19 94
ADDRESS	TELEPHONE NO.

MAKE & MODEL	ODOMETER READING	SERIAL NO.	LICENSE	PROMISED
DESCRIPTION OF WORK				AMOUNT

10 sals	S.P. @ 2.00	20.00
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Auto	@ 16.00	160.00
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I HEREBY AUTHORIZE THE ABOVE WORK TO BE DONE TOGETHER WITH NECESSARY MATERIALS.

TOTAL LABOUR

X

TOTAL PARTS

SUBTOTAL

GST

SUBTOTAL

PST

TOTAL

180.00

12.60

192.60

I HEREBY ACKNOWLEDGE MY INDEBTEDNESS IN THE AMOUNT OF

\$

BEING THE TOTAL AMOUNT OWING, OR BALANCE OWING, AS SHOWN HEREON.

DATE

19

X

INVOICE

ALL ESTIMATES ARE FOR LABOUR ONLY. MATERIALS ADDITIONAL. THIS COMPANY DOES NOT ASSUME ANY RESPONSIBILITY WHATEVER FOR UNITS LEFT FOR REPAIRS, STORAGE OR OTHER PURPOSES, OR FOR ARTICLES LEFT IN UNITS. UNITS DRIVEN BY OUR EMPLOYEES AT OWNER'S RISK.

Daily Field report

May 21

Drive To whitehorse
Supplies Grab, gas etc.

May 25

Back In Dawson gearings up
~~gears~~ Tents etc.

① May 26 Drove out To Clear creek
Setup Camp.

② May 27 Dug Holes By shovel.
Tried To make it over pass
To Josephine no way
Snow slides etc.

③ May 28 Leave Camp Go do something
else In meantime.

Jun 9.

(4) Leave town for
prospecting

10

(5) Down into Josephine.
Setup ~~camp~~ Camp check out
area. rocks etc

(6) 11. going around old
miners camp site.
Looking at cut materials etc.

(7) 12. panning around old site
Tailings etc.

(8) 13 going up to Top
of Josephine creek.
Looking around,

(9) 14 check out Bedrock (exposed.)

(10) 15 panning, sniping around Bedrock.

(11) 16 Still just working along creek
Josephine

- (12) June 17.
waking surrounding
area of hills. (Josephine creek)
- (13) 18 weather still nice
check out pass over to
Big Creek (muddy let dry for a while)
- (14) 19 still in Josephine. checking out Below
camp panning etc.
- (15) 20 waking around. Head waters at Josephine
up on top of pass checking out hard
rock.
- (16) 21 Identifying rocks up top still.
Finding Ugs in quartz.
- (17) 22 Same spot as yesterday. cracking
rocks.
- (18) 23 Took off over to Big Creek
went panning. Setup camp

Jane 24 went panning.

- (17) water level a little high. ~~(~~high~~)~~
decide to go to town. grab etc.

July 5 - Back at Big Creek Camp.
loaded up gear.

(20) 6. made it into Hobo Creek

(21) 7 packed stuff up pup
setup camp.

(22) 8 digging holes.

(23) 9. same digging holes

(24) 10 more panning digging,

(25) 11 more digging panning.

(26) 12 Try to walk over Top To Gem
Creek To Hob. go back to pup.
dig ~~and~~

July 13 Take Blake from pup
~~and~~ Go check out other
 (27) pups in area.

(28) 14 Still checking out other pups
 around Hobo creek area.

(29) 15' pack stuff up Go to Big creek
 pick another prospect leave camp
 then going to ~~the lake~~ white horse

July 25' Back out to Big creek
 setup camp go panning.
 (30) one pan yielded
 2 coarse coppers. Heavies were
 Hematite, SKELIT

(31) 26 walked up pup (extreme heat)
 panning etc. digging

(32) 27 still panning pup looking around
 hills.

(33) 28 walking hills. (still hot) cracking
 rocks

29 waked up fork of pup. ~~left~~ left
 34 ~~dig~~ dug holes upright fork

30 dug in holes at right fork panning.

35

31 Load up Bear Head out for Town

36 yours Truly. Doug Jackson

~~Box 5934
 white horse
 VIA SL7~~

Box 5934
 white horse
 VIA SL7

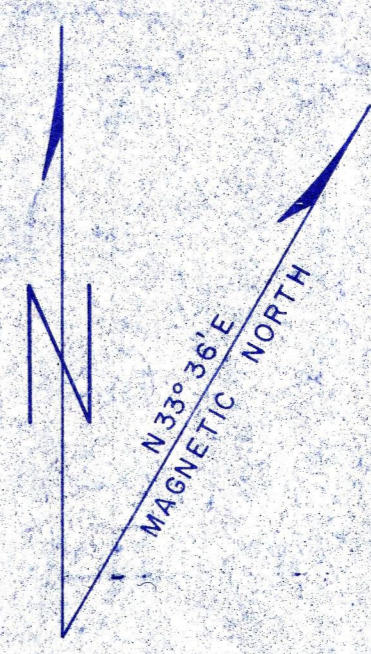
LATITUDE 63° 45' TO 64° 05'
LONGITUDE 136° 30' TO 137° 00'

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION AND LANDS BRANCH
MINING AND LANDS DIVISION

SCALE 1:31,680



ISSUED UNDER THE AUTHORITY OF THE MINISTER
OF
NORTHERN AFFAIRS AND NATIONAL RESOURCES



Note: Entry on certain lands is withdrawn from staking
in cross-hatched areas to facilitate the settlement
of Native Land Claims, without prejudice to Existing
Surface and Subsurface Rights.

116-A-3	116-A-2	116-A-1
115-P-14	115-P-15	115-P-16
115-P-11	115-P-10	115-P-9

NOTICE

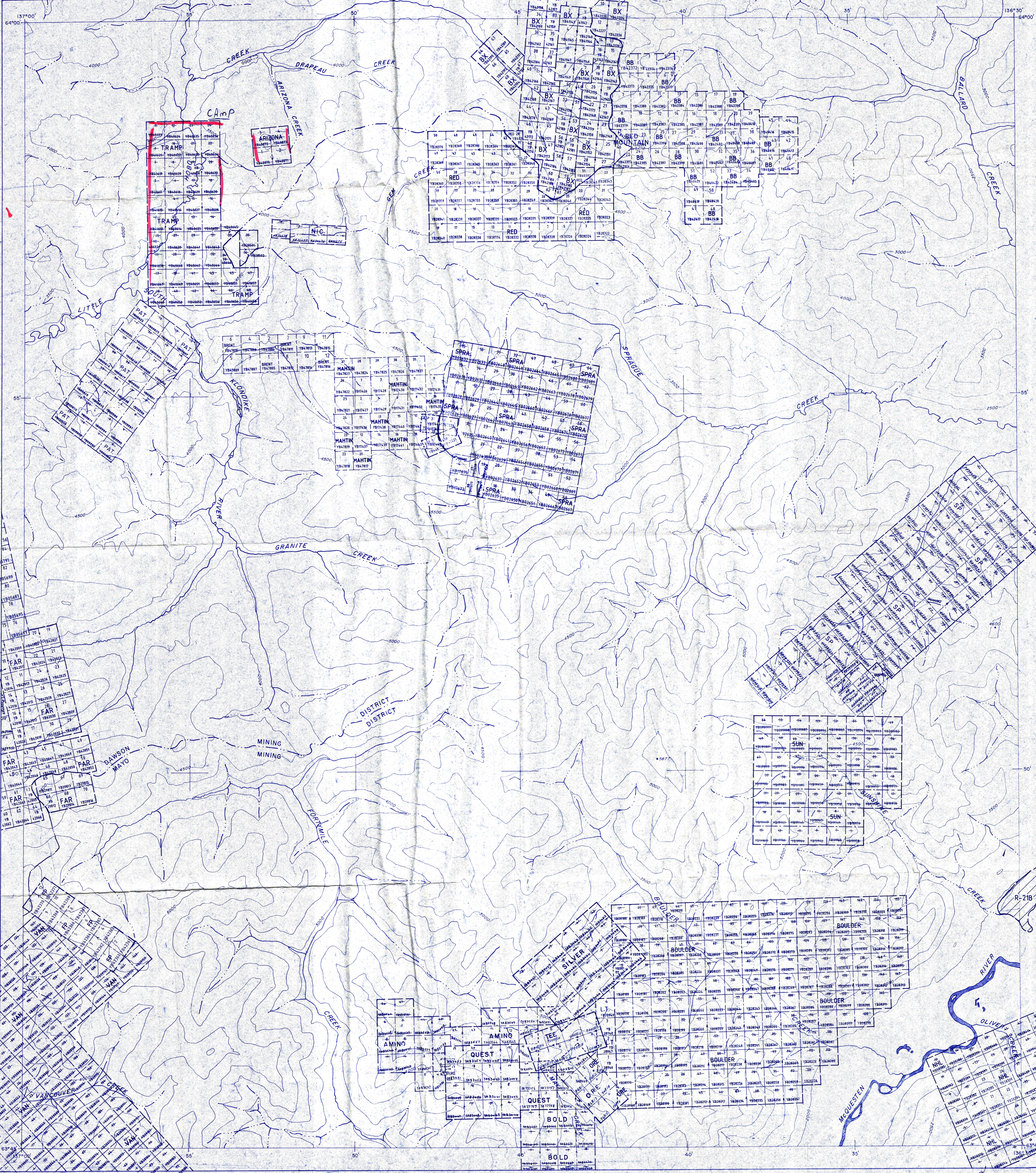
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OR OMISSIONS WHATSOEVER.

TOPOGRAPHY COMPILED FROM
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SERIES.
CONTOUR INTERVAL 500 FEET.

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DAWSON & MAYO 26 JANUARY, 1982

NOTE: FOR PLACER CLAIMS SEE MAP "115-P-15P"



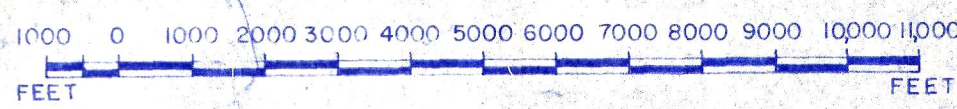
115-P-15 PLACER

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LONGITUDE 136° 30' TO 137° 00'

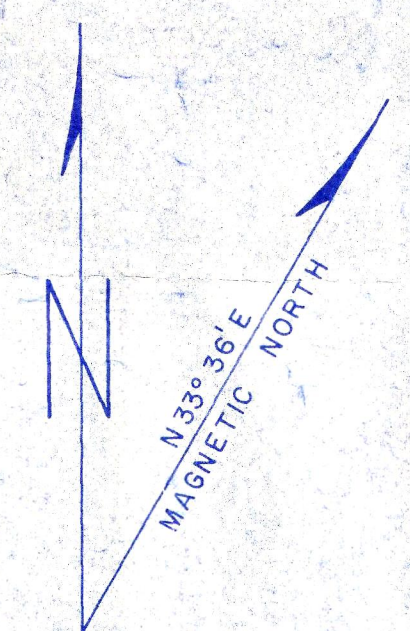
CANADA

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NORTHERN ADMINISTRATION AND LANDS BRANCH
MINING AND LANDS DIVISION

SCALE 1:31,680



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115-P-11	115-P-10	115-P-9

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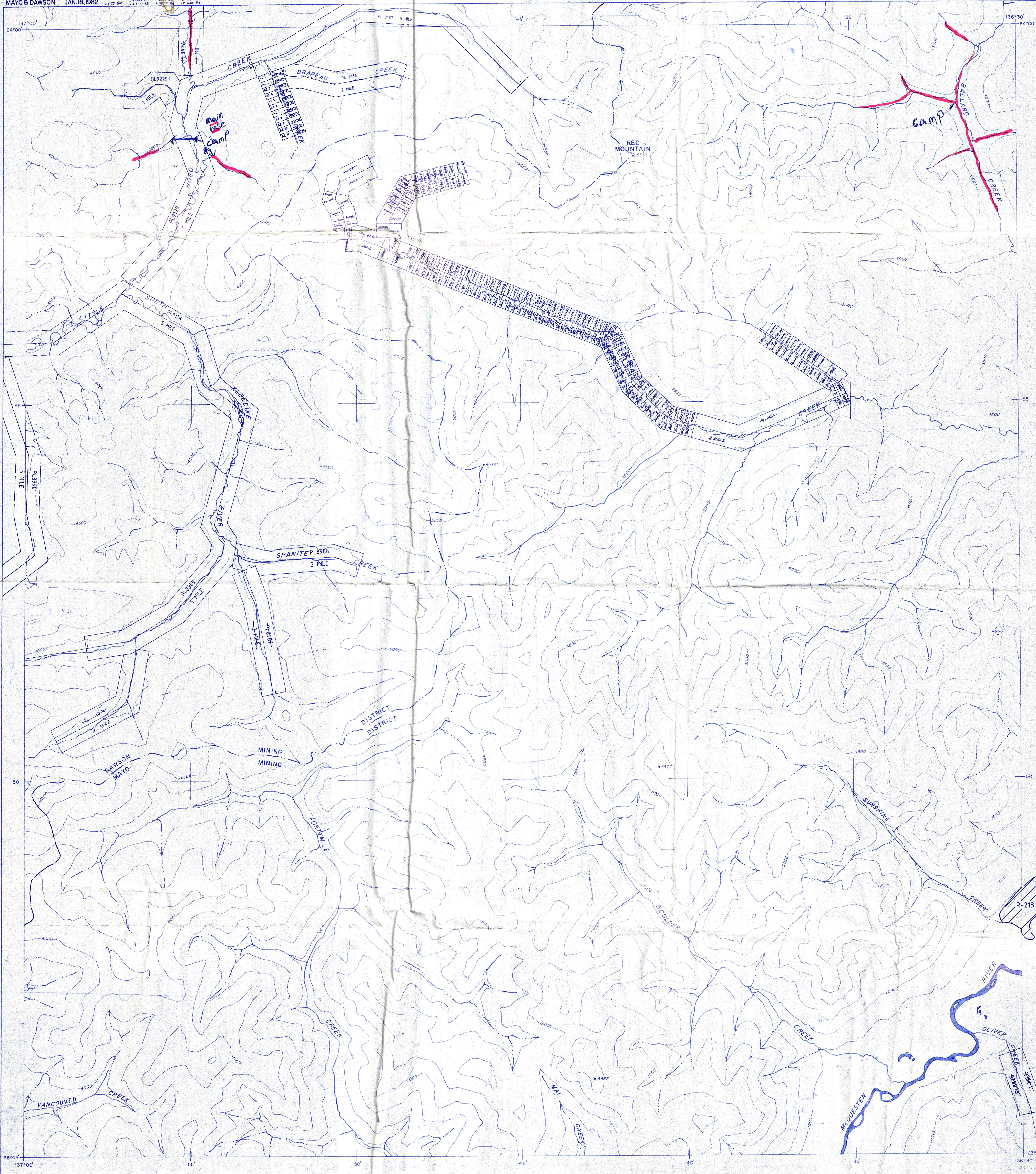
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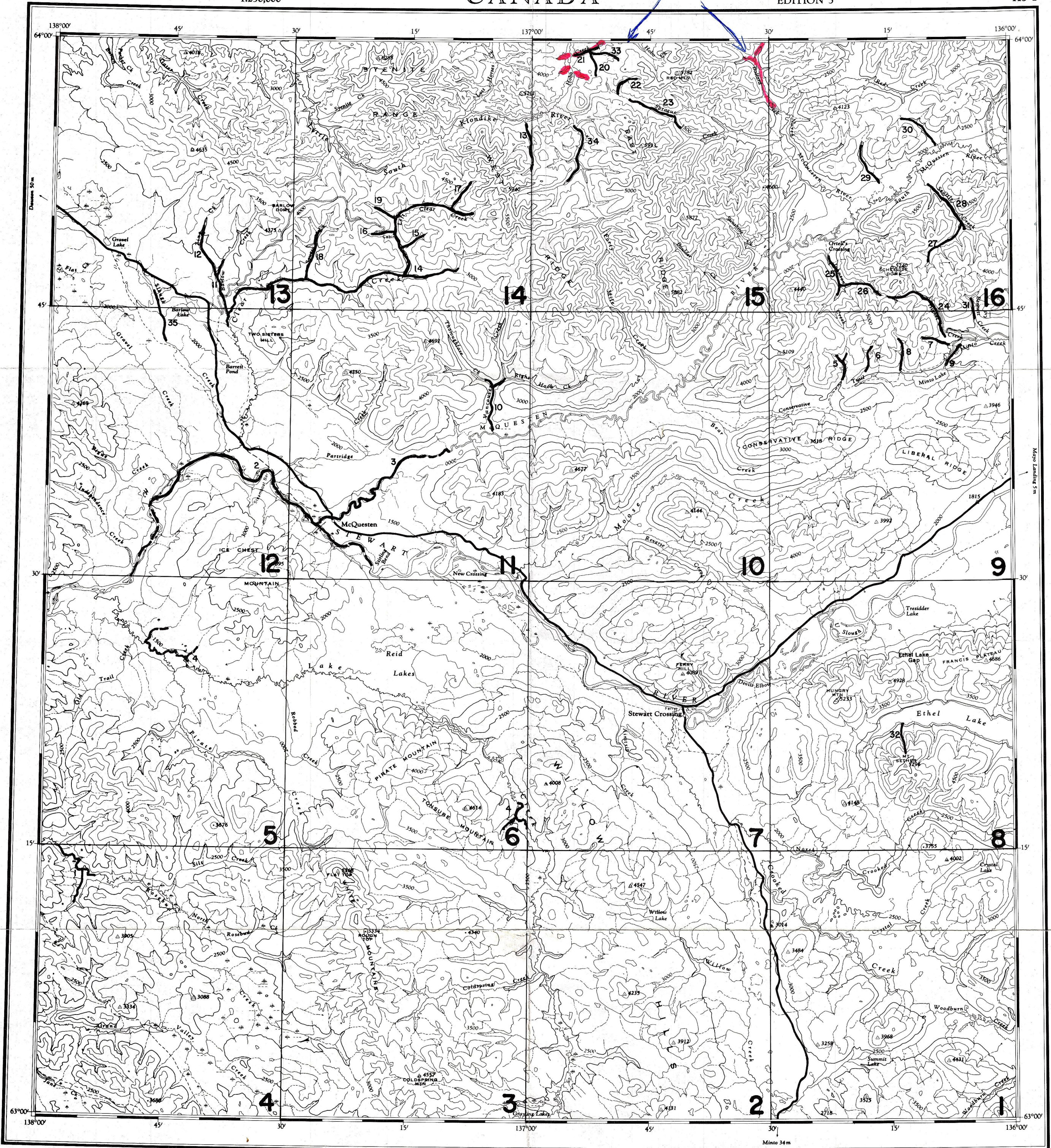
TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES. CONTOUR INTERVAL 500 FEET.

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MAYO & DAWSON JAN. 18, 1982

NOTE: FOR QUARTZ CLAIMS SEE 115-P-15





THE DECLINATION OF THE COMPASS NEEDLE 1962
 DÉCLINAISON MAGNÉTIQUE EN 1962

Compiled, 1960, by the SURVEYS AND MAPPING BRANCH,
 DEPARTMENT OF MINES AND TECHNICAL SURVEYS,
 from large scale maps. Printed 1963.

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

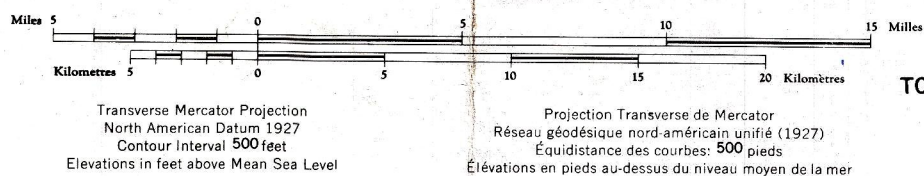
Road	Route	more than 2 lanes	2 lanes	less than 2 lanes
hard surface, all weather	pavé, toute saison	plus de 2 voies	2 voies	moins de 2 voies
loose surface, all weather	de gravier, toute saison	2 voies ou plus	moins de 2 voies	voies étroites
wagon, cart track	chemin de terre	trail or portage	sentier ou portage	
Railway, normal gauge	Chemin de fer, écartement normal	single track	single track	single track
Depression contours	Courbes de cuvette	Spot elevation, in feet	Repre de nivellement en pieds	
Power transmission line	Ligne de transport d'énergie			

The declination of the compass needle is decreasing
 3.9 minutes annually.
 La déclinaison magnétique décroît de
 3.9 minutes annuellement

McQUESTEN

YUKON TERRITORY

Scale 1:250,000 Échelle

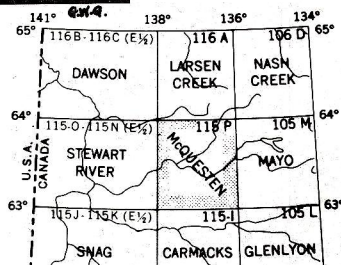


Rédigée en 1960, par la DIRECTION DES LEVÉS ET DE
 LA CARTOGRAPHIE, MINISTÈRE DES MINES ET DES RE-
 LEVÉS TECHNIQUES, d'après les cartes à large échelle. Im-
 primée en 1963.

Ces cartes sont en vente au Bureau de distribution des
 cartes, ministère des Mines et des Relevés techniques
 Ottawa.

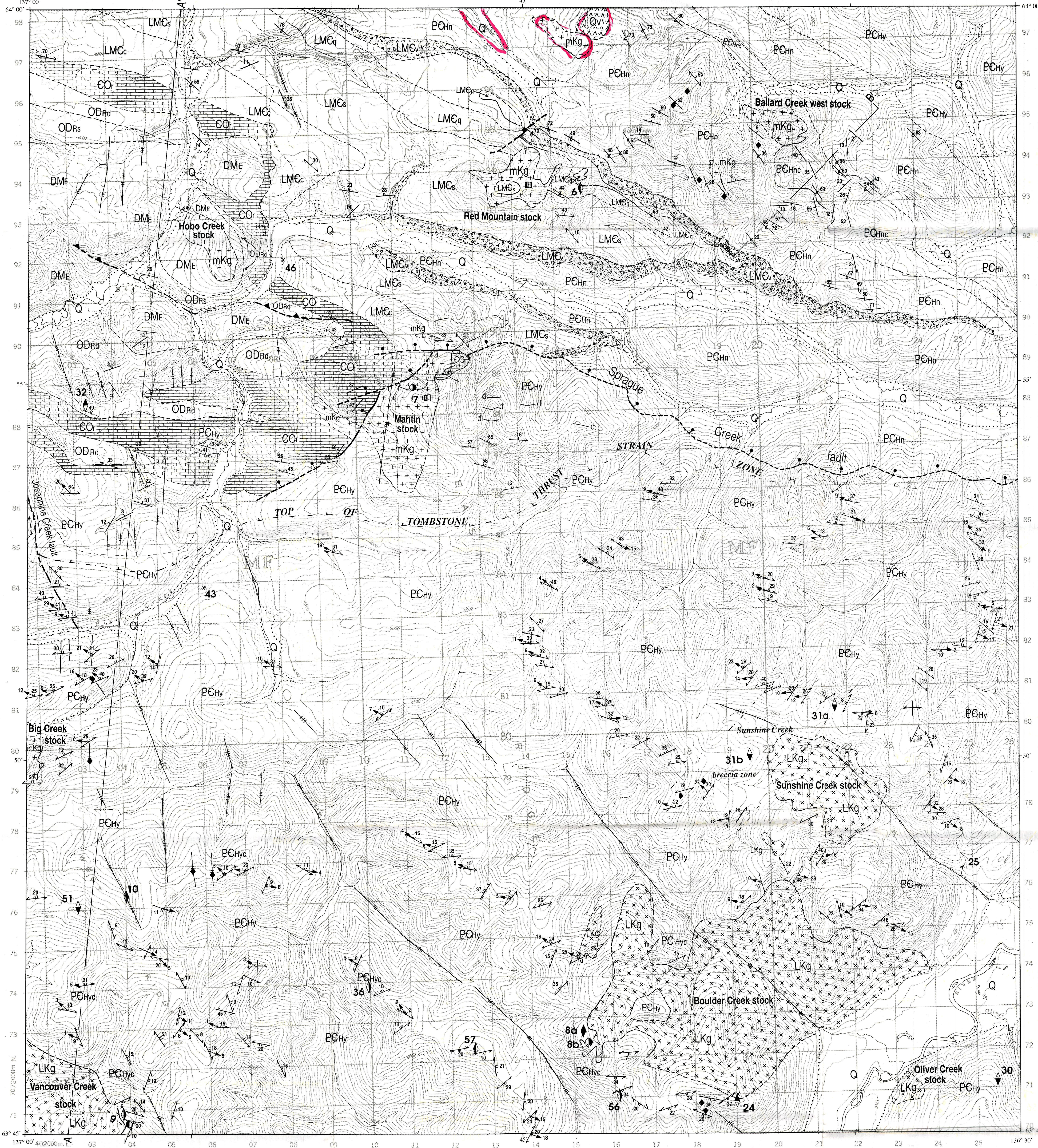
Town	Ville	□	Stream	Cours d'eau
Village or Settlement	Village ou hameau	○	intermittent or dry	intermittent ou à sec
Post office	Bureau de poste	P	intermittent lake	Lac intermittent
			Rapids; falls	Rapides; chutes

TO ACCOMPANY PLACER REPORT - B. KREFT - MAR. '93
 2 OF 2 MAPS



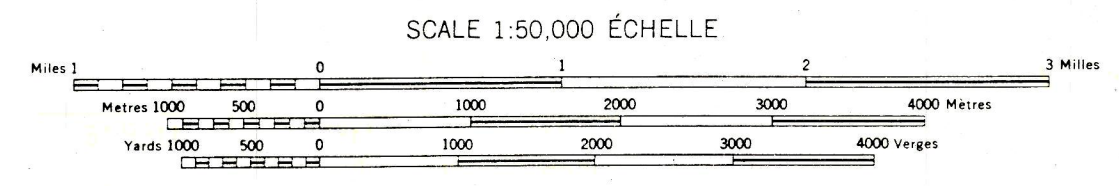
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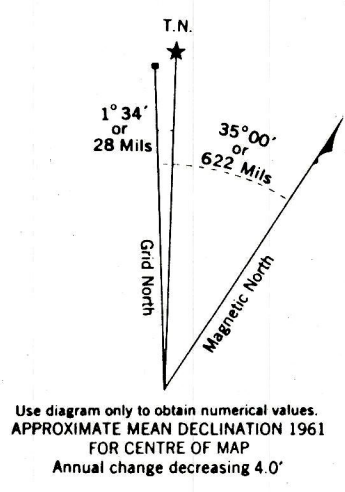
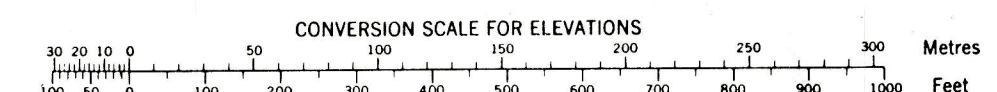


SPRAGUE CREEK YUKON TERRITORY

Topographic base: Produced and printed by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS, 1961. From air photographs taken in 1949 and 1953. Copies may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa.



CONTOUR INTERVAL 100 FEET Elevations in Feet above Mean Sea Level North American Datum 1927 Transverse Mercator Projection MAGNETIC DECLINATION 37°36' EAST AT CENTRE OF MAP 1961 Annual change (decreasing) 4'



QUATERNARY Q Alluvium, colluvium and glacial deposits (stipple indicates approximate extent of gold placer workings) Qv Vesicular(?) and fragmental volcanic rocks of uncertain composition, age, and origin

LATE CRETACEOUS LKq Medium- to coarse-grained, locally porphyritic (locally potassium feldspar megacrystic) biotite-muscovite granite and quartz monzonite; samples of this suite have U-Pb zircon ages ranging from 64-67 Ma (Jim Mortensen, personal communication, 1993).

EARLY CRETACEOUS Tombstone plutonic suite LKq+ Medium- to coarse grained, locally porphyritic (locally potassium feldspar megacrystic) biotite-hornblende quartz monzonite and quartz diorite; samples of this suite have U-Pb zircon ages ranging from 99-95 Ma. (Jim Mortensen, personal communication, 1993)

DEVONIAN AND MISSISSIPPIAN Earn Group DME Grey to black shale, phyllite, siltstone, sandstone, and chert-peggle conglomerate

ORDOVICIAN, SILURIAN, and DEVONIAN Road River Group ODRs Steel Formation: beige-orange, massive to well laminated, locally ripple cross-laminated dolomitic siltstone ODRd Duo Lake Formation: grey to black shale and thin-bedded chert

UPPER CAMBRIAN - ORDOVICIAN Rabbitkettle Formation: laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-peggle conglomerate; cherty calcisilicate rock near intrusions

LOWER - MIDDLE(?) CAMBRIAN LMCc Tan- to brown-weathering thinly bedded calcareous siltstone, sandstone, shale and limestone LMCs Greenish-grey phyllite with mm-scale siltstone laminae, unconformable sandstone and pebbly sandstone, and greenish-grey chert LMCq Light to dark grey, locally pebbly quartzite (siliceous meta-sandstone) and dark grey phyllite LMCp Dark green massive to fragmental mafic meta-volcanic and volcanoclastic rocks

UPPER PROTEROZOIC(?), LOWER PALEOZOIC(?) Hyland Group PChn Narchilla Formation: maroon and green phyllite with cm-scale grey-green siltstone laminations, locally calcareous sandstone and pebbly sandstone, and sandy limestone PChnc Sandy limestone and limestone-breccia-rich member PChy Yusezyu Formation: in northeast corner of map area, grey-green phyllite, meta-sandstone and pebbly meta-sandstone; in southern half of map area, prominently foliated and lineated muscovite-chlorite phyllite, quartzofeldspathic and micaceous psammite, gritty psammite, rare calc siliceous rock and marble; PChyc indicates carbonate- and calc-silicate-rich part of succession

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LEGEND

SYMBOLS Geological contact (defined, approximate, assumed) Fault (defined, approximate, assumed, assumed under cover) Limit of outcrop Airphoto lineament Bedding (upright, overturned, facing unknown) Folliation and mineral or clast-elongation lineation (amount and direction of plunge indicated; one tick mark indicates earliest phase of deformation; two or more tick marks indicate second phase of deformation) Mineral occurrence as enumerated in Yukon Minfile Line of cross-section Breccia zones Summer road

Table with 3 columns: Intrusion-hosted (115P 006, 115P 007), HOB0 (RED MOUNTAIN) SPRAGUE (MAHTIN), and Cu, Mo, Au, Sn.

Table with 3 columns: Skarn (115P 007, 115P 008a, 115P 008b, 115P 009, 115P 030), SPRAGUE (MAHTIN) EAST RIDGE (TEE), EAST RIDGE (SNARK), LUGDUSH, OLIVER, and Sn, Au, W, Cu, Zn, Pb, Ag, Mo, Zn, Ag, Cu, W, Zn, Sn, Ag.

Table with 3 columns: Vein, breccia (115P 006, 115P 008a, 115P 009, 115P 010, 115P 025, 115P 030, 115P 031a, 115P 031b, 115P 032, 115P 036, 115P 051, 115P 056, 115P 057), HOB0 (RED MOUNTAIN) EAST RIDGE (TEE), LUGDUSH, RIDGE (STERLING), BOULDER, OLIVER, BIX (SUNSHINE CR. E.), BIX (SUNSHINE CR. W.), MOZI, BANDER, JABBERWOCK, ORE (MAY CREEK), QUEST, and Cu, Mo, Au, Ag, Pb, An, Sn, Cu, Ag, Pb, Zn, Sn, Cu, Sn, Ag, Sn, Ag, Mo, Zn, Ag, Cu, Ag, Pb, Sn, Ag, Ag, Pb, Zn, Au.

Table with 3 columns: Work targets (115P 025, 115P 043, 115P 046), TOTH, CORTIN, WEIZ, and unknown, unknown, unknown.

RELATED REFERENCES

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ACKNOWLEDGEMENTS

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Recommended citation: MURPHY, D.C. and HEON, D., 1994. Geological map of Sprague Creek map area (NTS 115P15), western Selwyn Basin, Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open-File 1994-3 (G), 1:50 000-scale.

This paper accompanies the following report: MURPHY, D.C. and HEON, D., 1994. Geology and mineral occurrences of Sprague Creek map area (NTS 115P15), western Selwyn Basin. In: Yukon Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

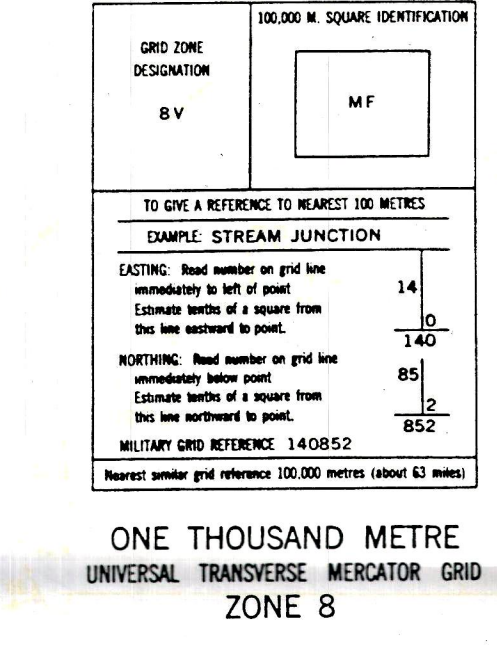
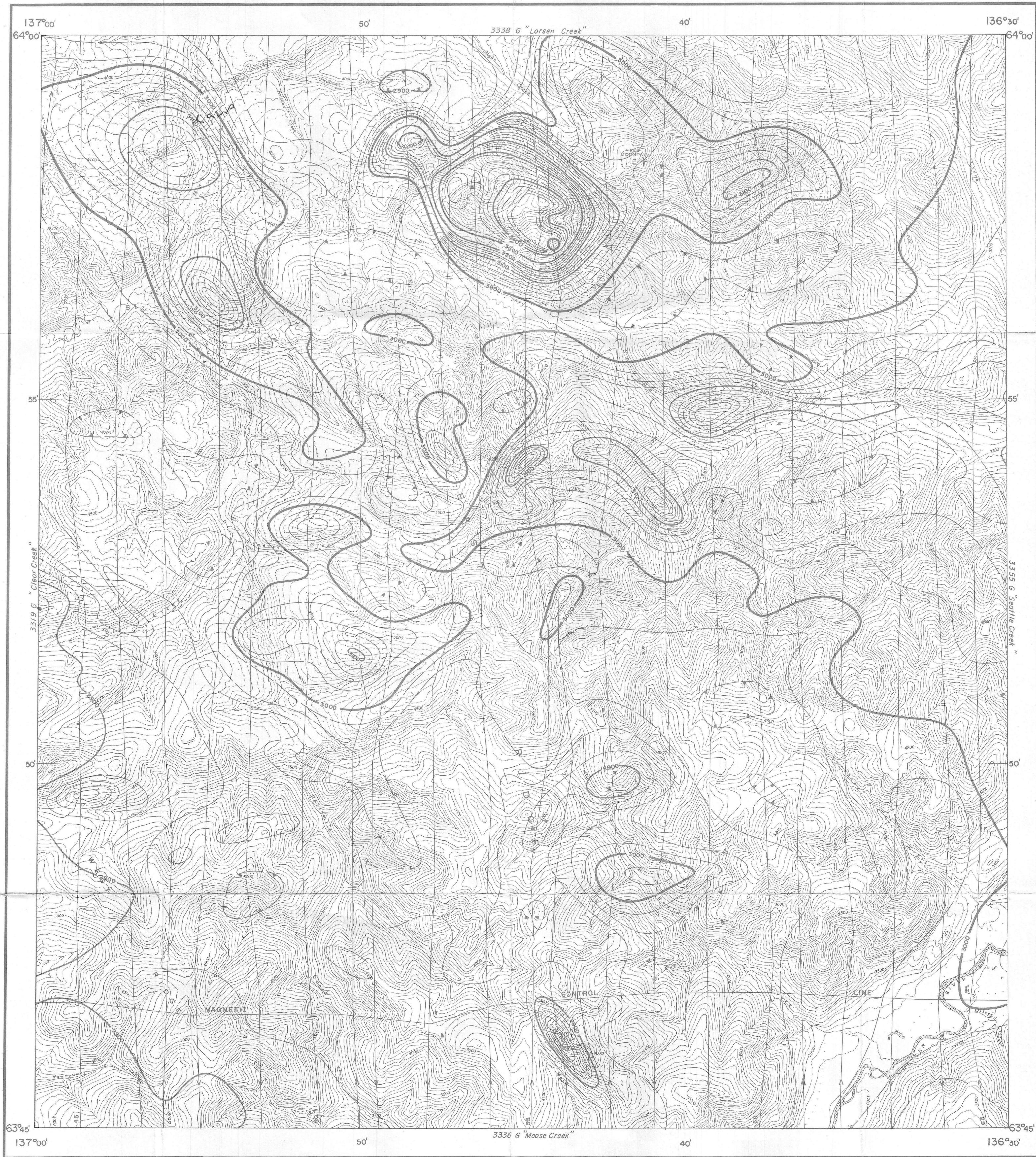


Table with 3 columns: 116A/3, 116A/2, 116A/1. Rows include 115P/14, 115P/15, 115P/16 and 115P/11, 115P/10, 115P/9.

Indian and Northern Affairs Canada Exploration and Geological Services Division Yukon Region Open File 1994-3 (G) GEOLOGICAL MAP OF SPRAGUE CREEK MAP AREA (NTS 115P15), WESTERN SELWYN BASIN, YUKON by Donald C. Murphy and Danièle Héon Canada/Yukon Mineral Development Agreement Geoscience Office

Copies of this map, the accompanying report (in Yukon Exploration and Geology 1993), and Yukon Minfile may be obtained from Canada Map Office, Exploration and Geological Services Division, Indian and Northern Affairs Canada, 200 Plunge Road, Whitehorse, Yukon Y1A 2V1 (403-567-3204; FAX 403-568-2176).



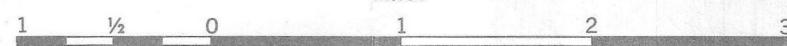
PUBLISHED 1966

MAP 3337G

SPRAGUE CREEK

YUKON TERRITORY

Scale: One Inch to One Mile = $\frac{1}{63,360}$ Miles



Air photographs covering this map area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario.

Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa.

Airborne Magnetic Survey, June 1964 to February 1966, by Canadian Aero Service Limited, Ottawa.

No correction has been made for regional variation

The planimetry for this map was obtained from topographical map sheets published by the Department of Mines and Technical Surveys.

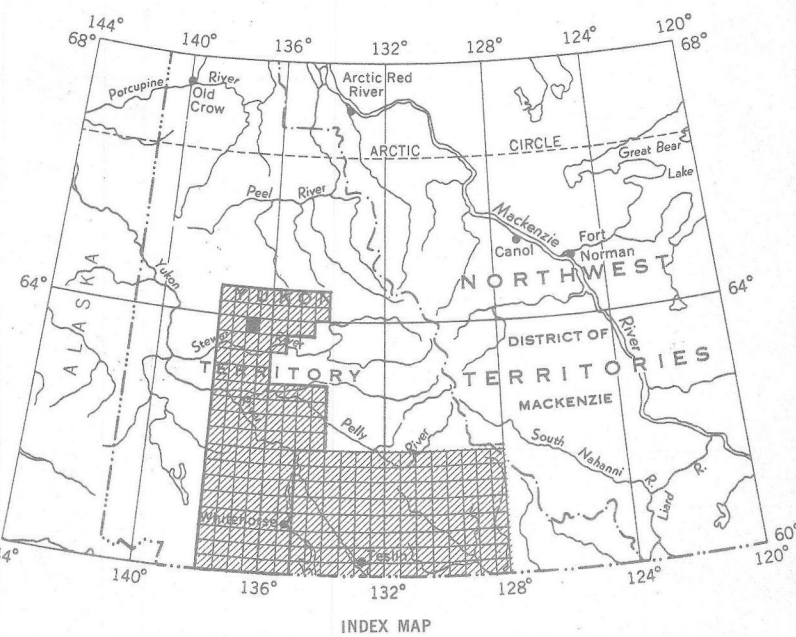
The magnetic data on this map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentine, which have a relatively high iron content, but in special instances may be due, or partly due, to concentrations of magnetic ore minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced into, or across, areas of low or no outcrops. In many instances, however, no interpretation of particular anomalies may be possible without further geological information.

GEOPHYSICS PAPER 3337

SPRAGUE CREEK

YUKON TERRITORY

SHEET 115 ^P/₁₅



INDEX MAP