

Emerald Project

YMIP # 03-033

Grassroots Prospecting Exploration

Grassroots Prospecting for Emeralds, Northwest of Hasselburg Lake, Yukon

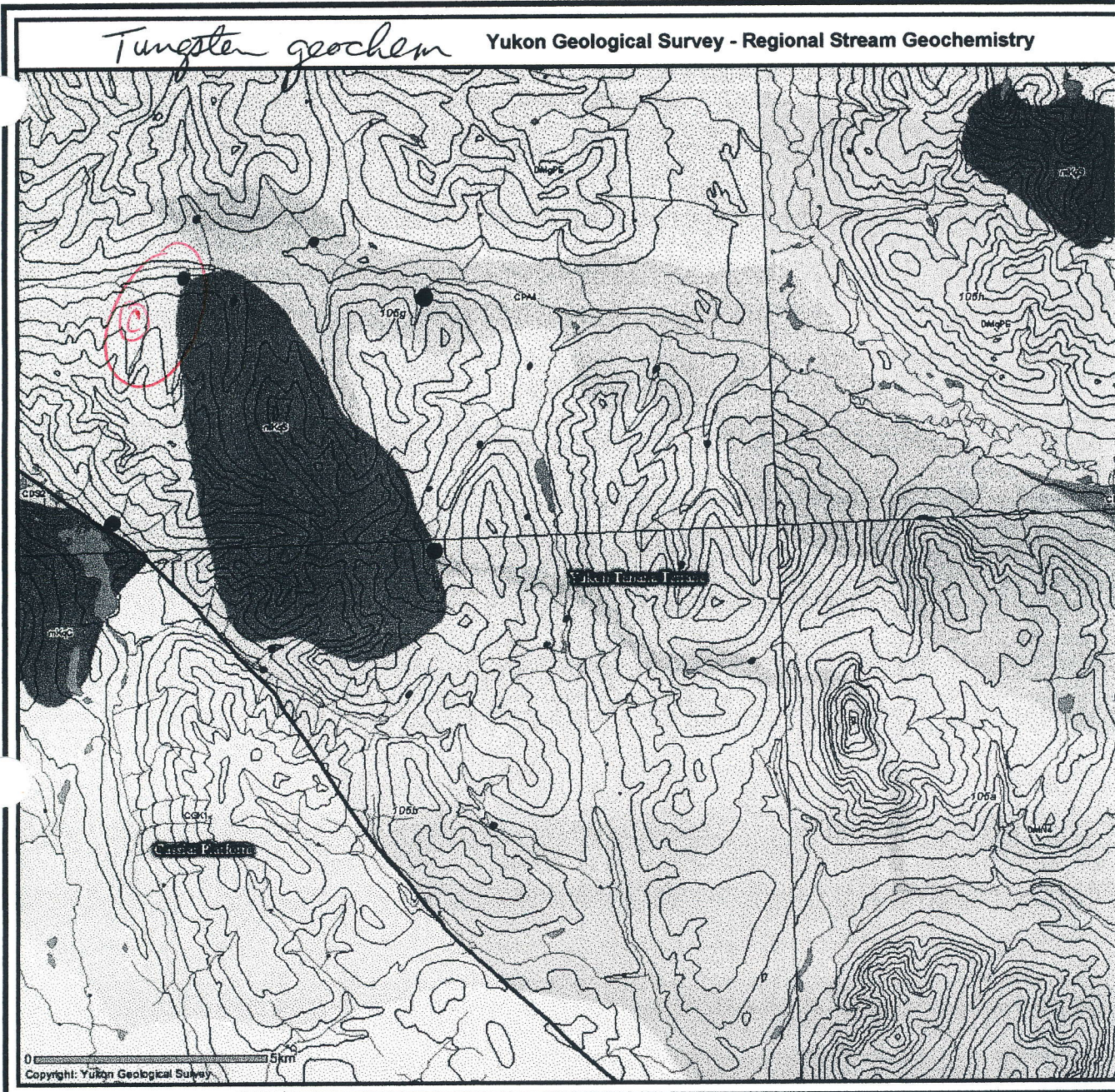
by Van Krichbaum

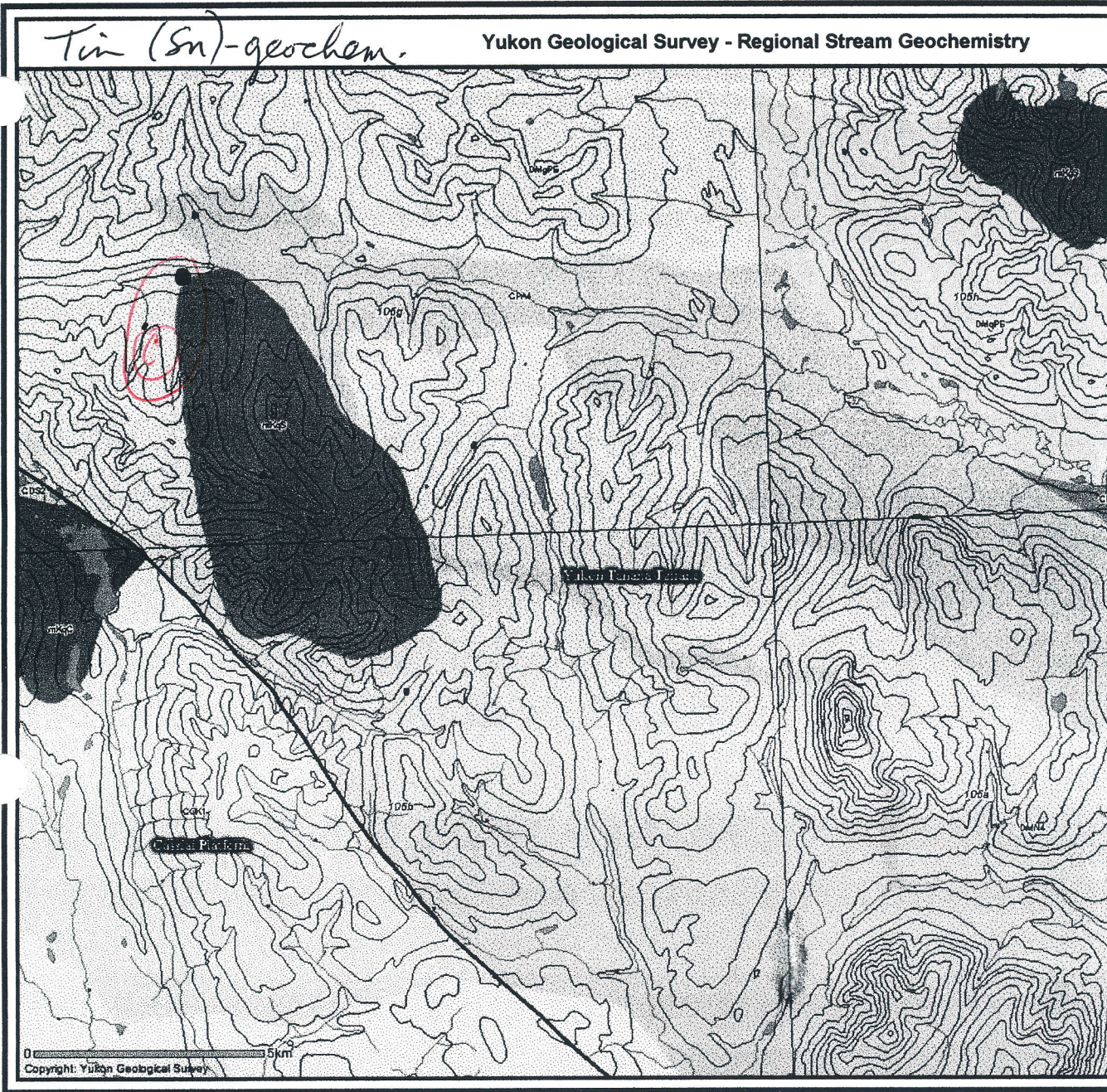
Jan. 28, 2003

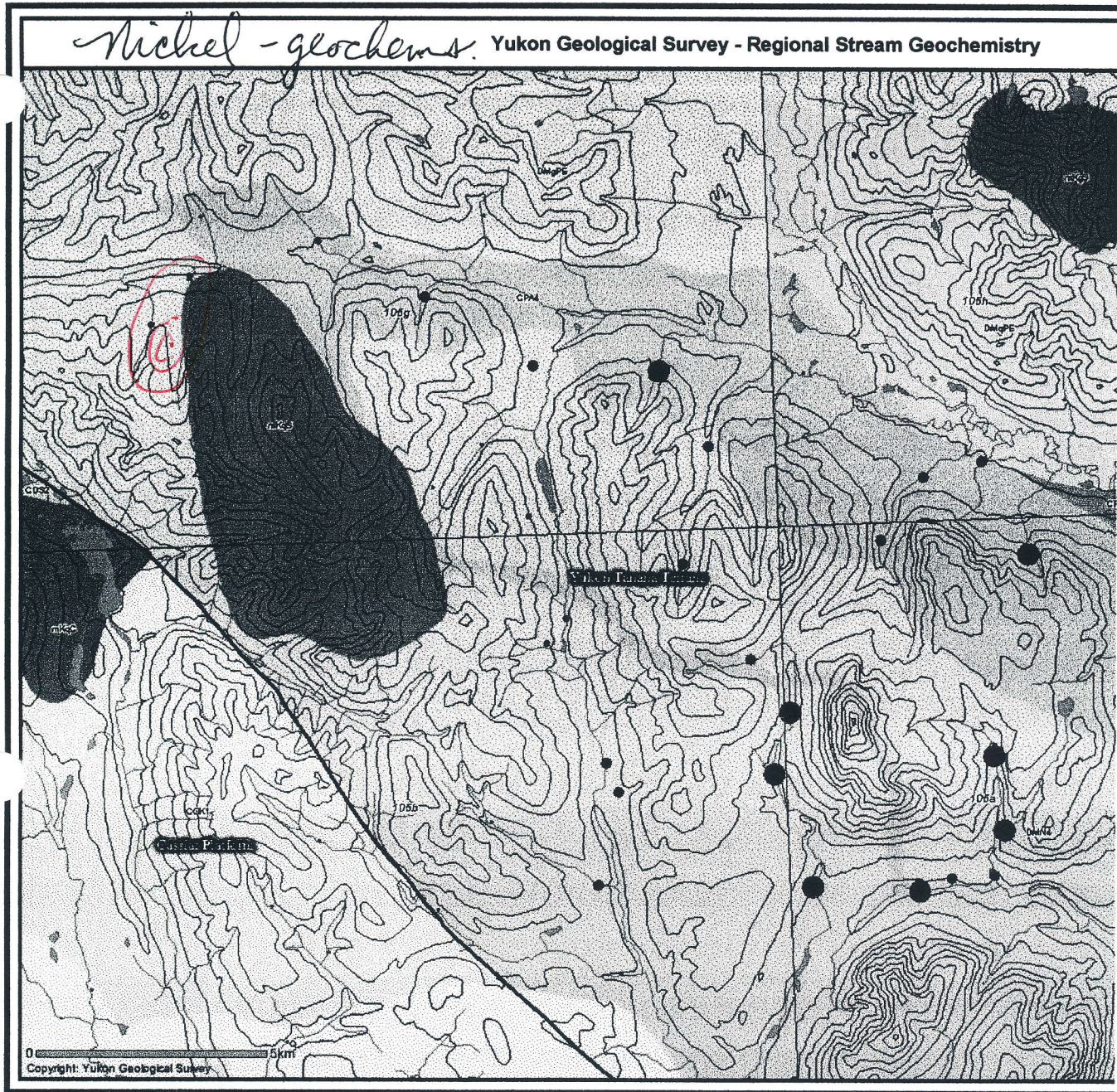
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Tungsten geochem

Yukon Geological Survey - Regional Stream Geochemistry

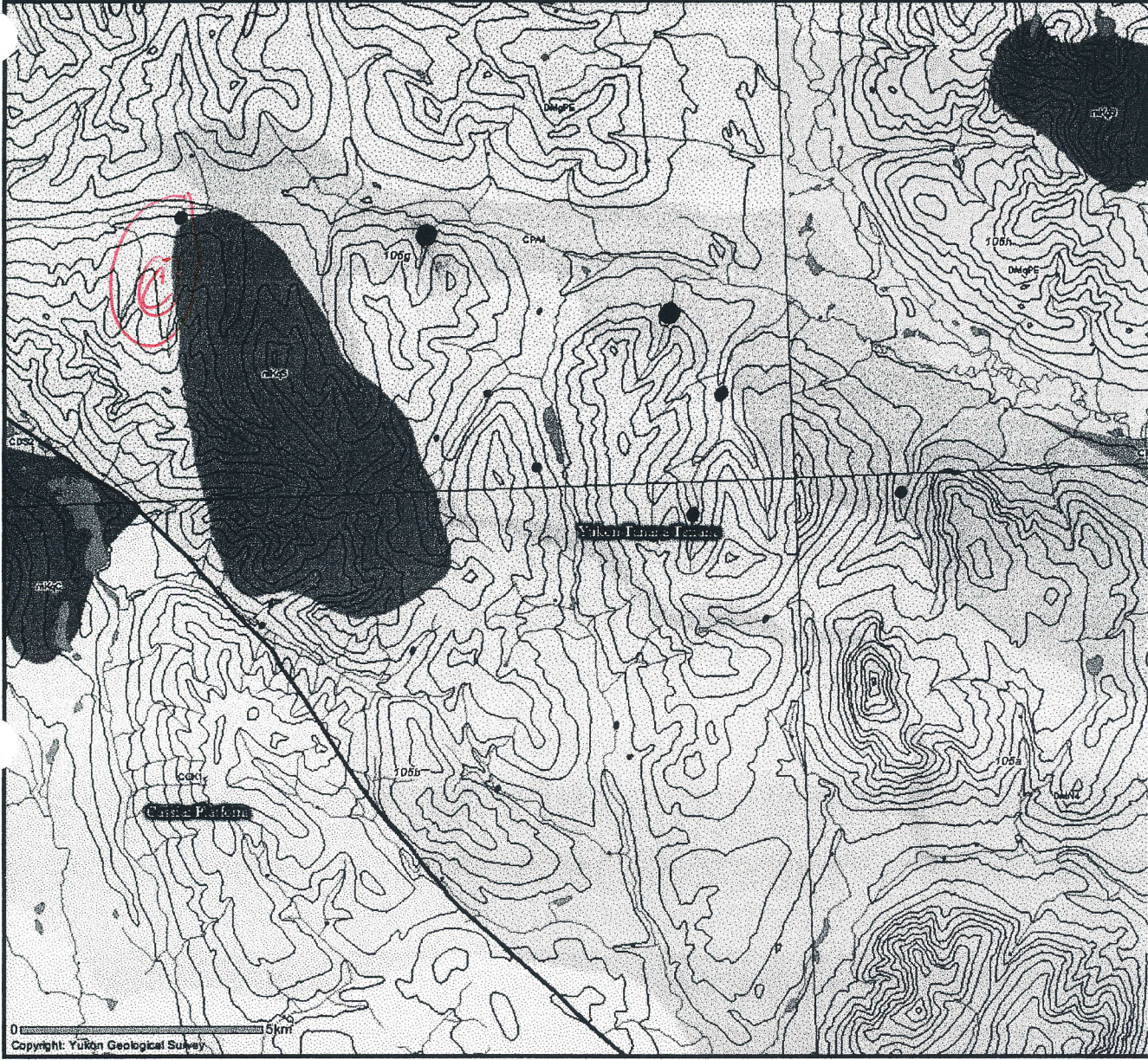




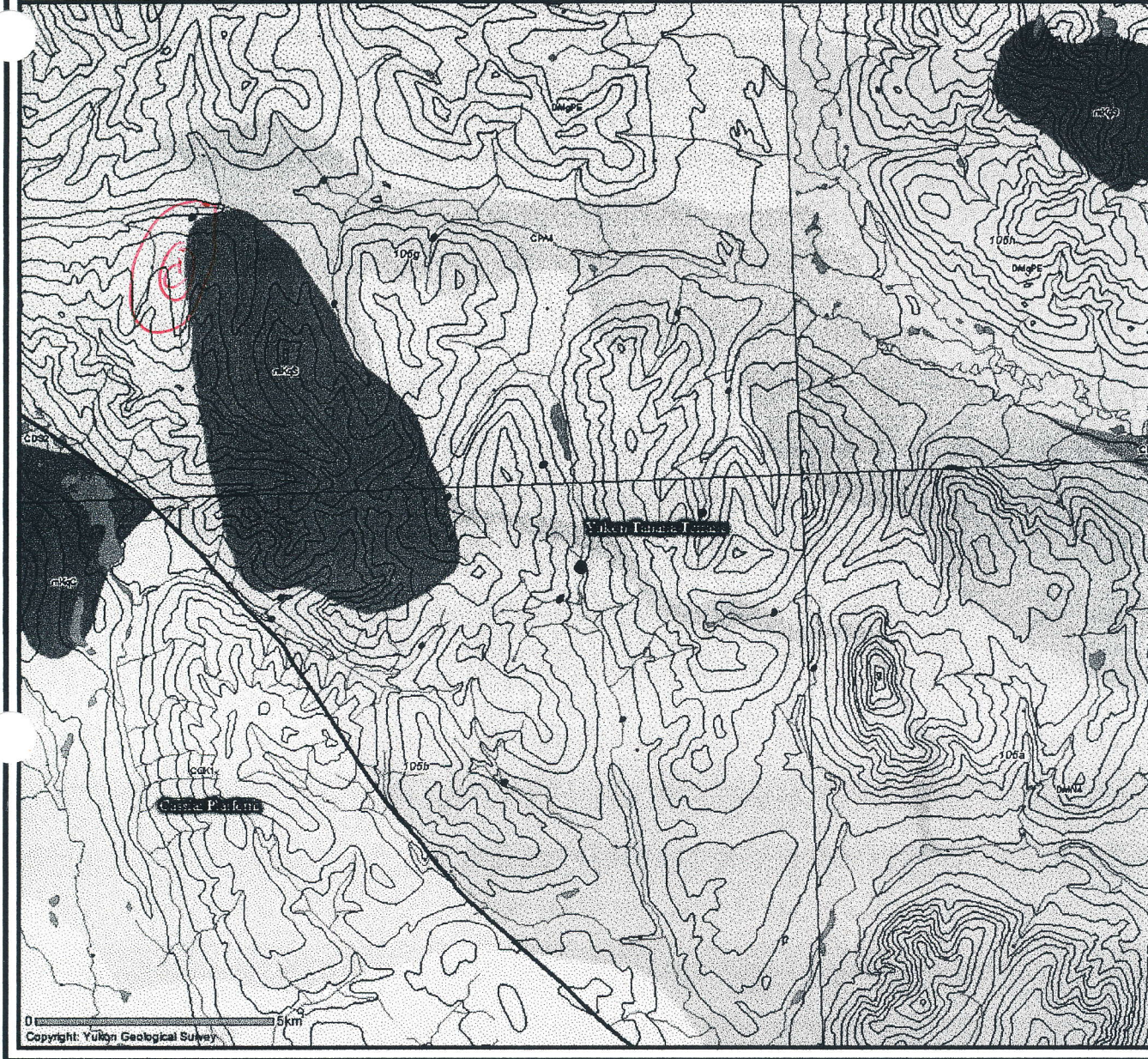


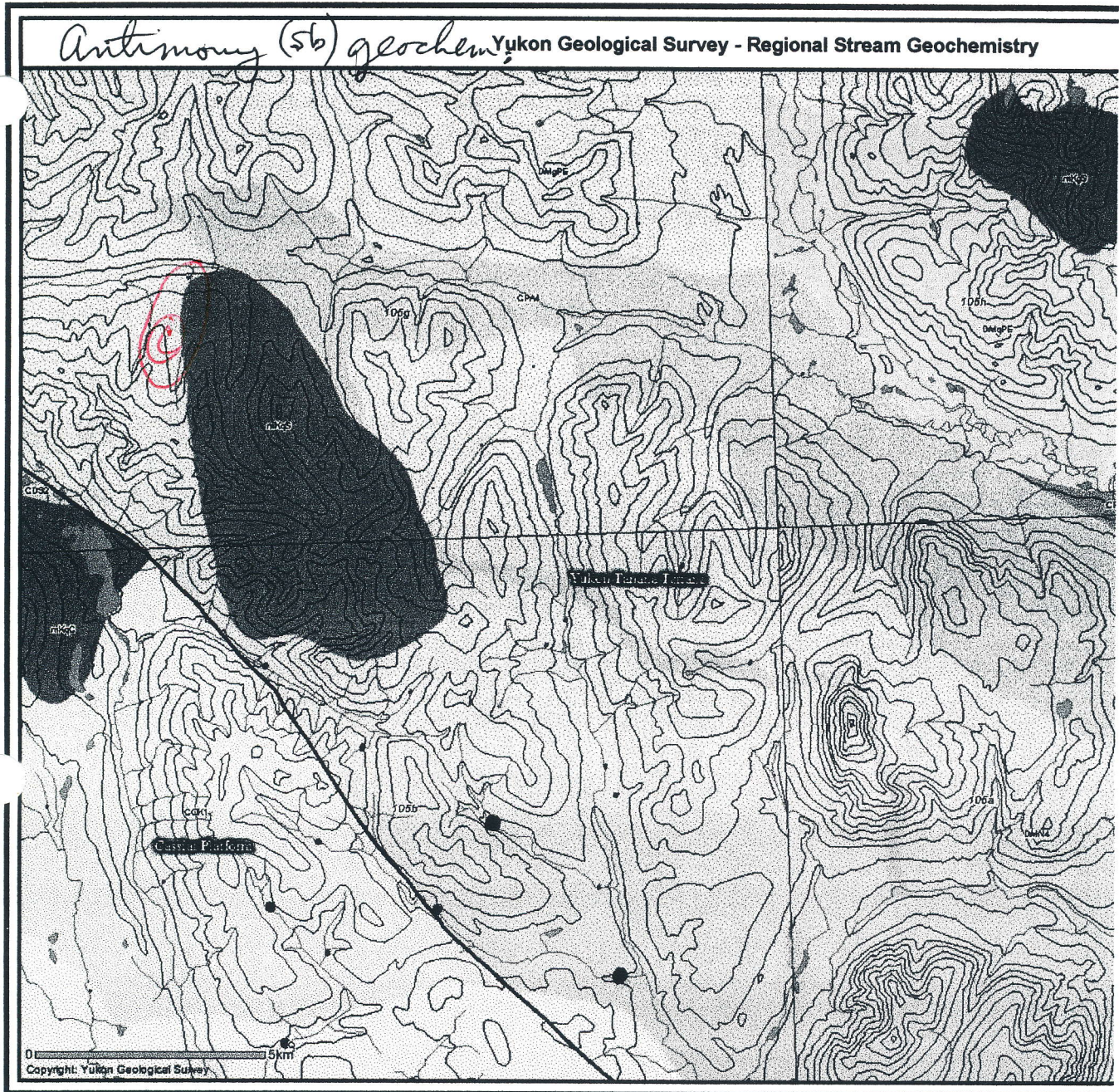
Copper - geochems.

Yukon Geological Survey - Regional Stream Geochemistry



Manganese - geochem. Yukon Geological Survey - Regional Stream Geochemistry





Area explored -

Please see the maps for the areas traversed and where samples were taken.

Weather generally was not too bad, typical for high valleys and ridges in this part of the Yukon - wet, windy, stormy, and mixed in good / great days. The one day that the helicopter was scheduled for flying us all day is the one with the worst weather. I tried to steer the pilot off to another day, but he insisted that the day would get better later in the morning. What we got was rolling ground fog, and we were forced to return to camp without warning after only two stops. We were never able to make up that time with the helicopter due to his long travel time, and this restricted the scope of the areas visited, and reduced the money available for assays.

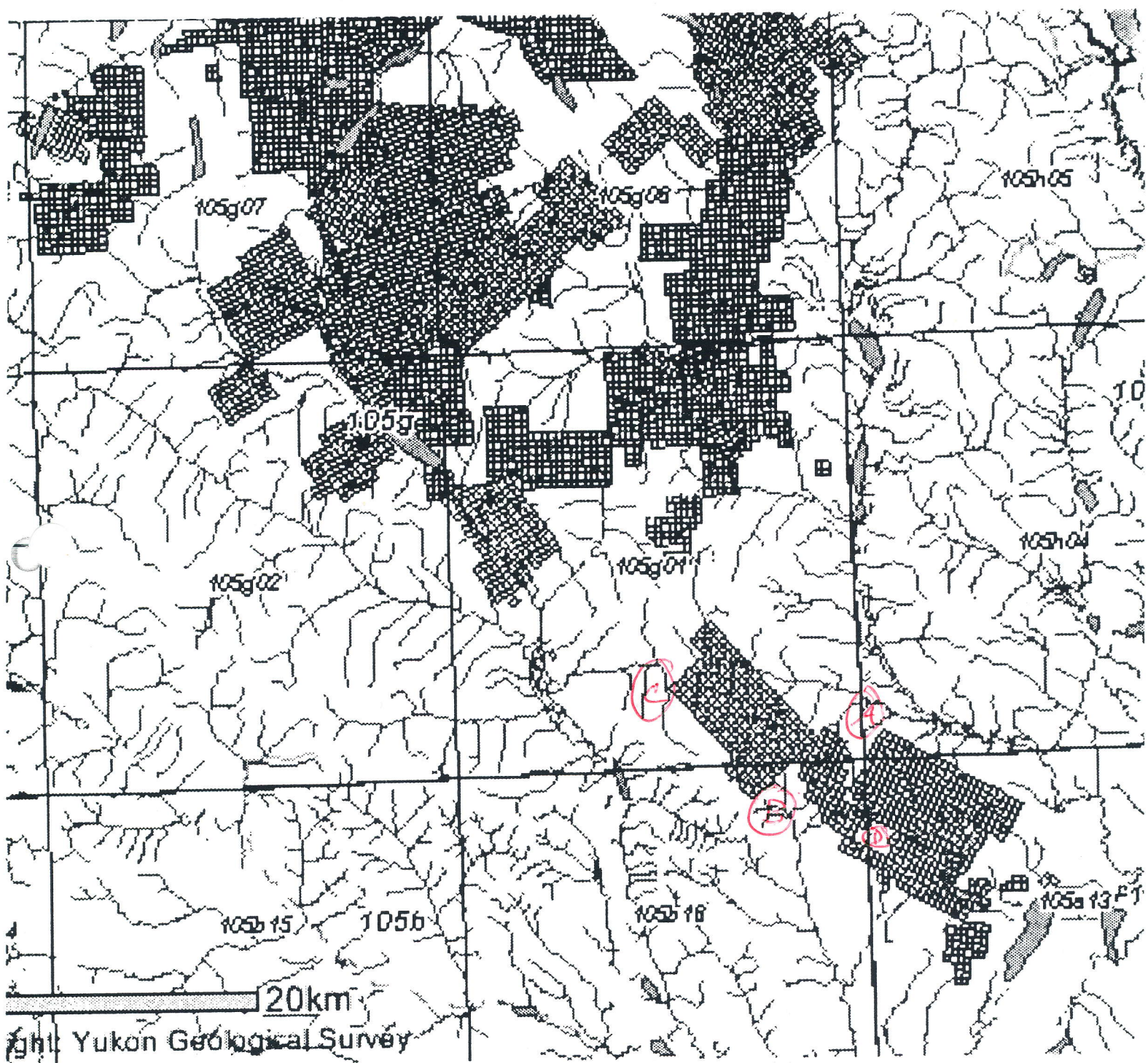
Geological observations -

It appears the area is centered over a buried granite intrusion as a roof pendant. Evidence is from high temperature minerals present, calcitic cemented breccias, large quartz flooded areas, abundant quartz muscovite pegmatite with tourmaline, and the presence of abundant andalucite, which the literature says is an indicator of being within 1 Km of granite. The nearest large granite body is 6 km. away horizontally, although Don Murphy pointed out at Roundup where he has mapped two small outcrops locally. We figure the main part of the stock is underneath the area at shallow depth.

This geology is "perfect" for the upward movement of fluids, hopefully beryllium rich, into the ultramafic rocks and the schists such as the chlorites and biotites that make up the surface rock package. Don Murphy is excited to see the area to complete his mapping project in two years. Not a lot of the schists are rusty and loose like the "golden schists" at Regal Ridge, but some do exist. There is pervasive quartz veining throughout much of the area, mostly in the schists. All of this makes the area a very good prospect warranting further investigation for emeralds.

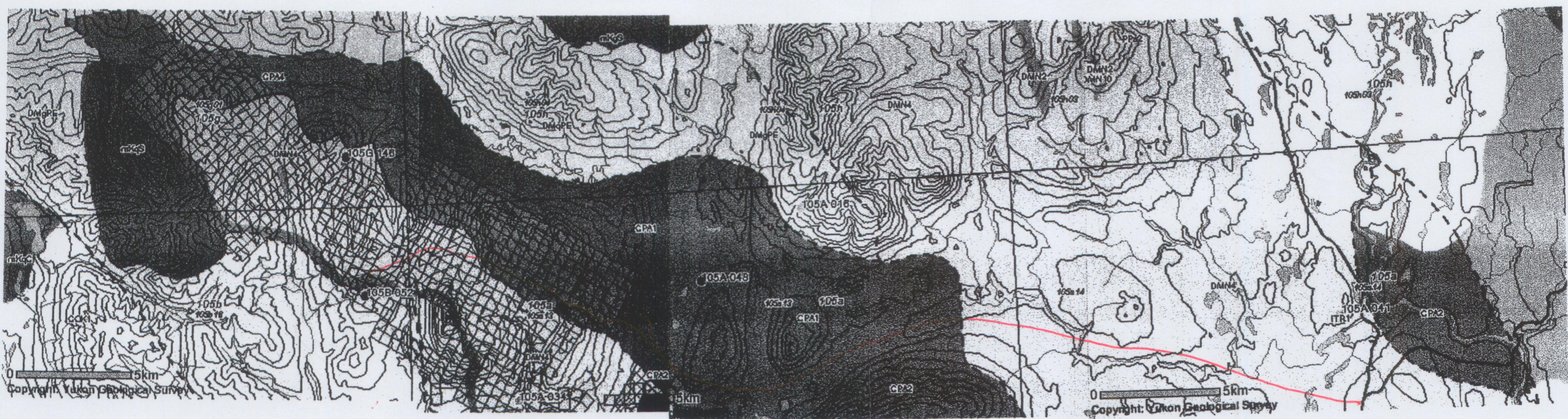
Some clay pits were observed in quartz flooded areas, leading to the possibility of a chance for epithermal gold deposits. Lori Walton, of Firestone Ventures, saw the pictures and said that they look just like their gold showing on the "4c" claims to the West.

Assays show that there is beryllium and abundant chrome present in this project area. High nickel assays (2 %) have also come from this area. Lots of tourmaline was observed, showing the abundance of boron (which usually "runs with" beryllium).



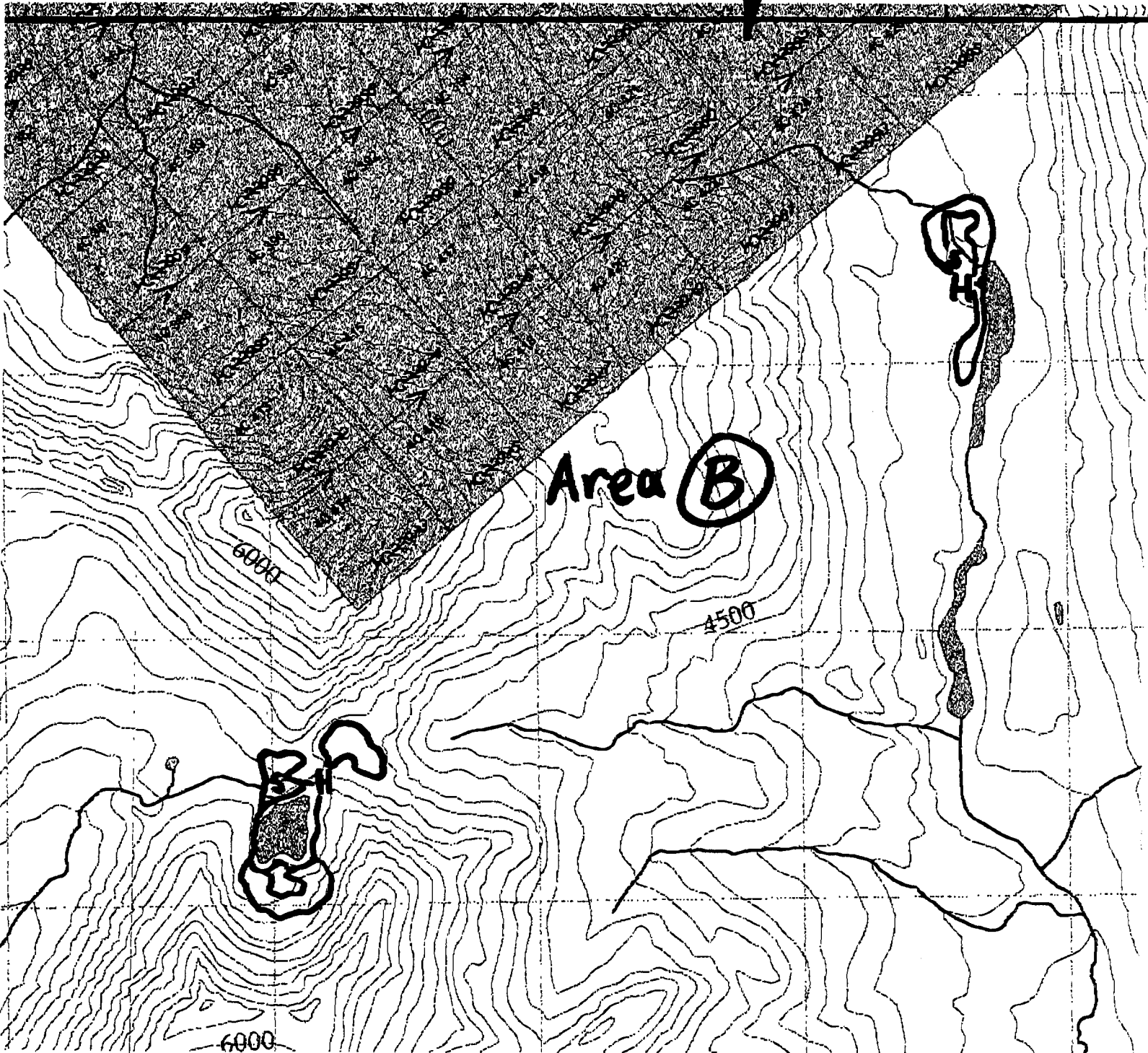
ArcIMS Viewer

rcIMS Viewer



Route in

105 B/16 ↘ N↑



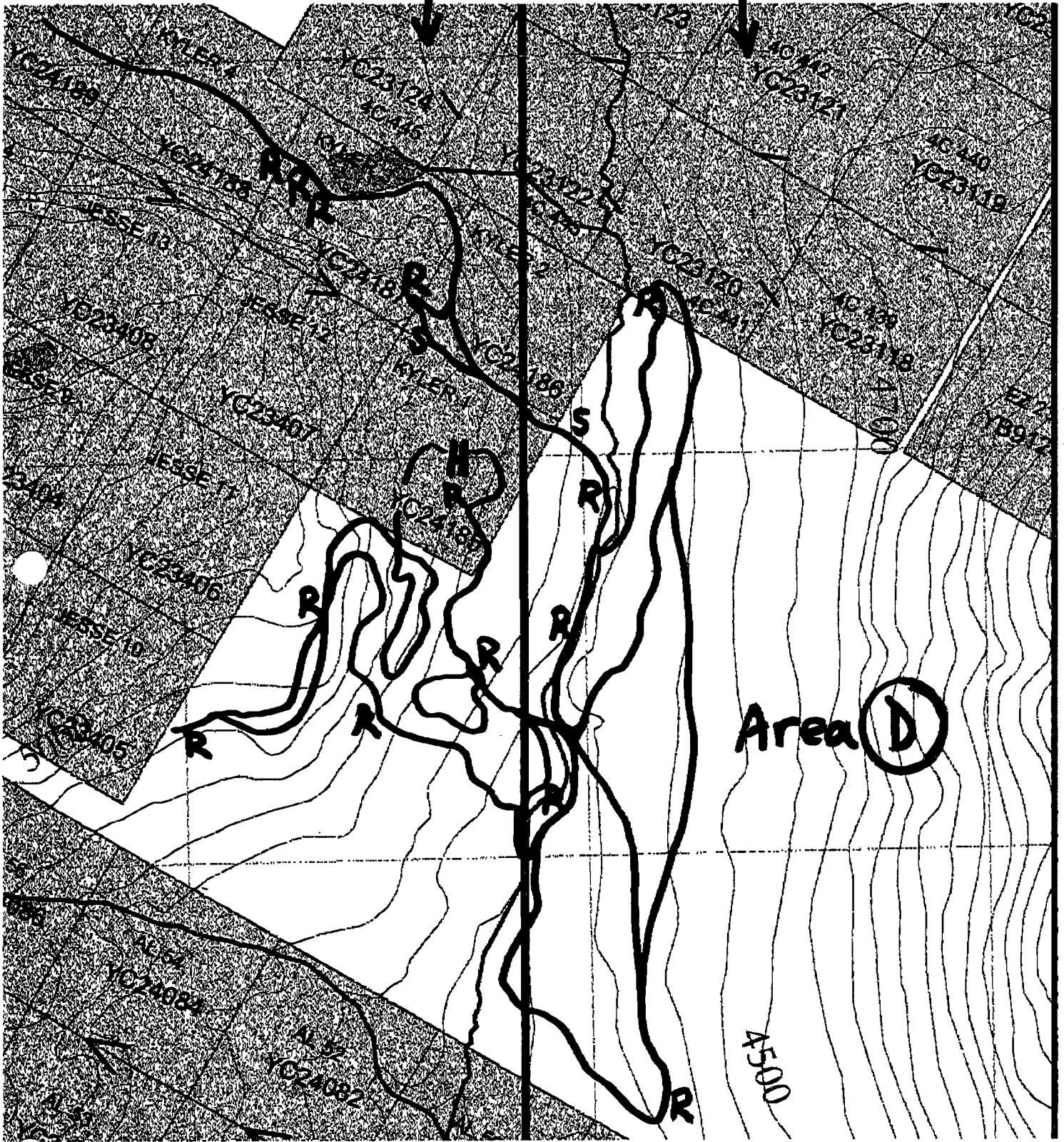
H = Helicopter Landing Site

~ = Traverses (4 People)

S = Soil Sample Site

D = Rock Sample Site

105 B 16 N1 105 A 13

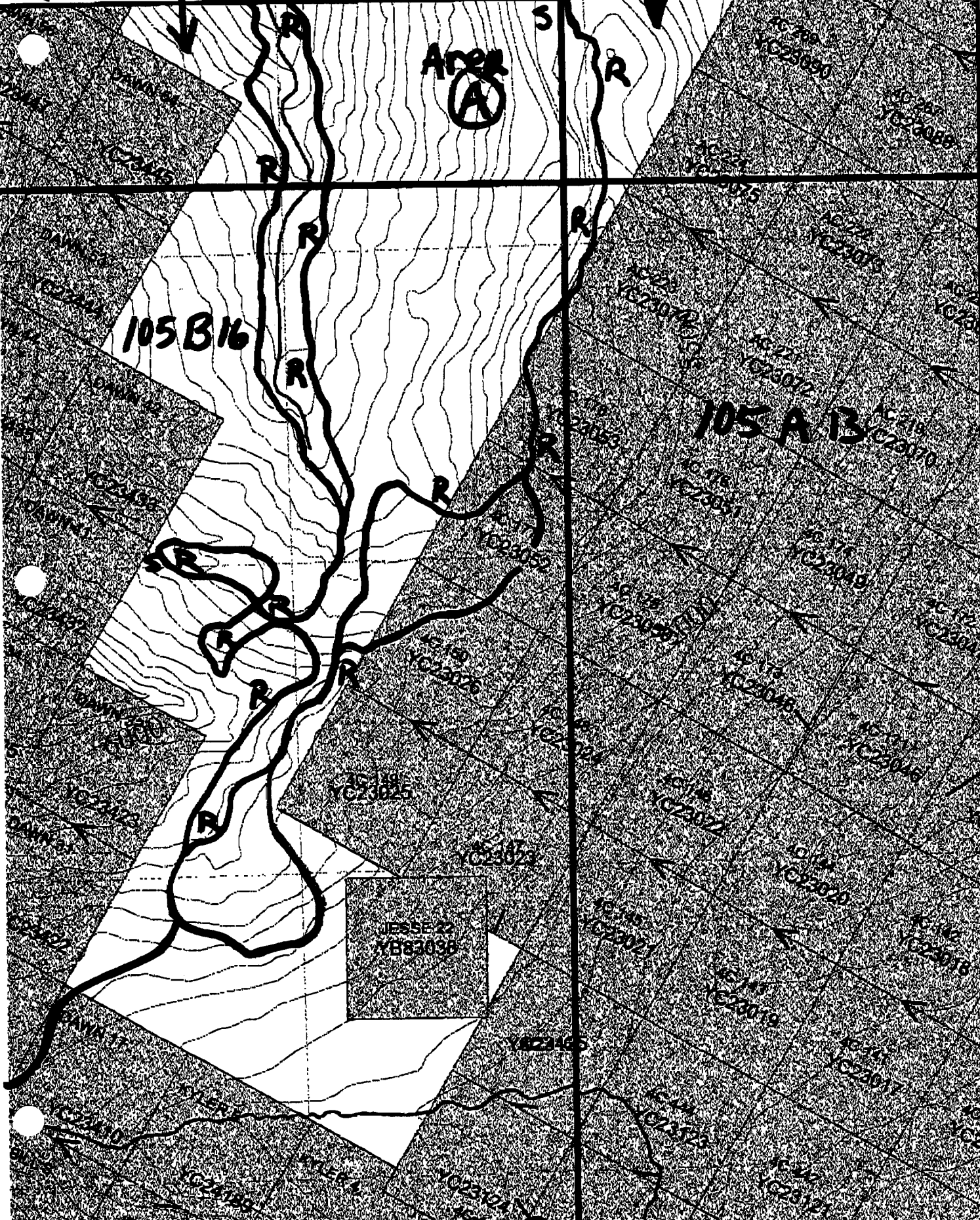


676000
6759000
6758000

H = Helicopter Landing Site
 Z = Traverses (4 People)
 S = Soil Sample Site

(There were no
 Kyler claims
 there at this
 time)

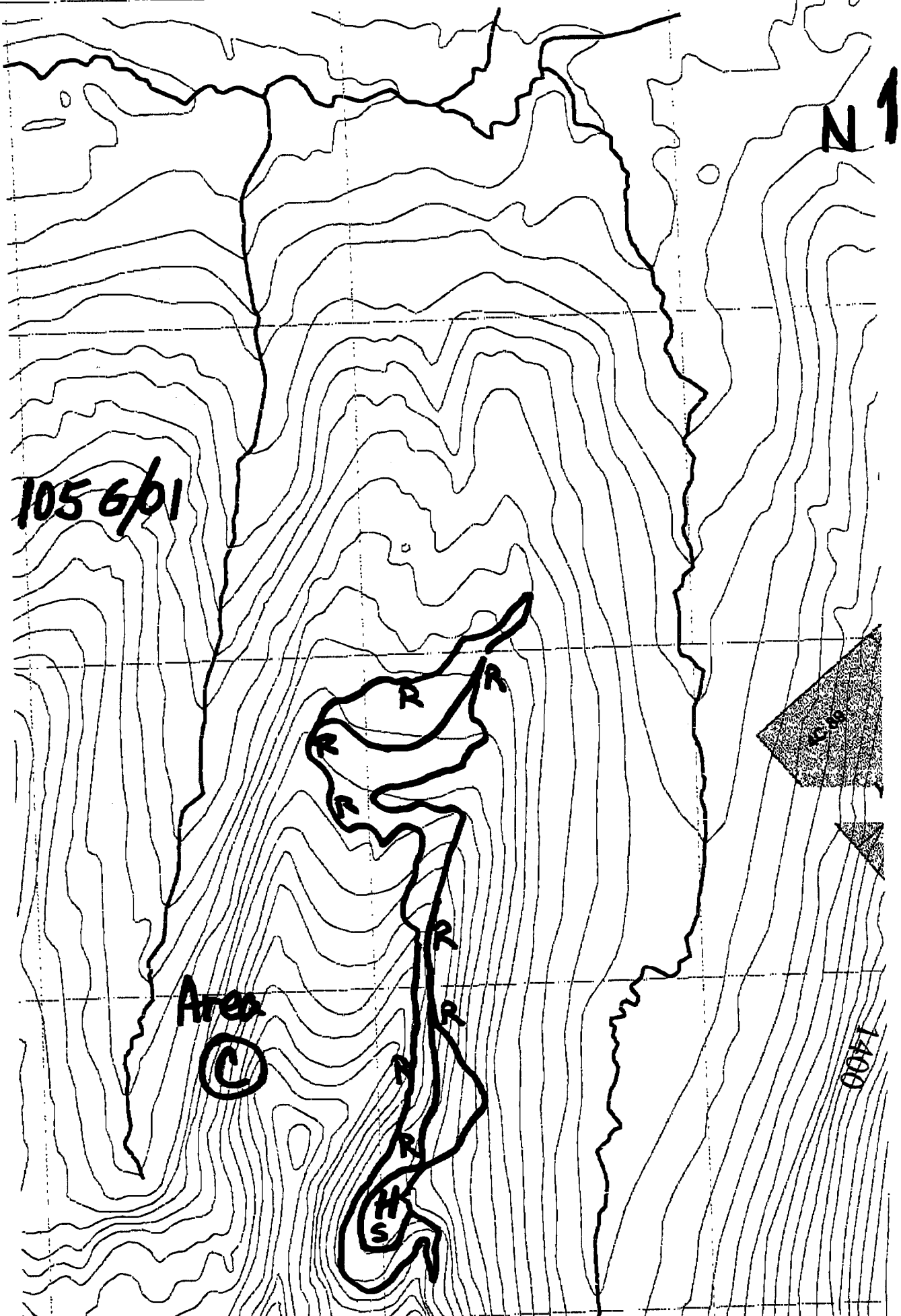
0 105 G 01 445000 N 1 N 446000 105 H 04 447000



6763000 61°0'0"N
6762000
6761000
6760000

H = Helicopter Landing Site

S = Soil Sample Site



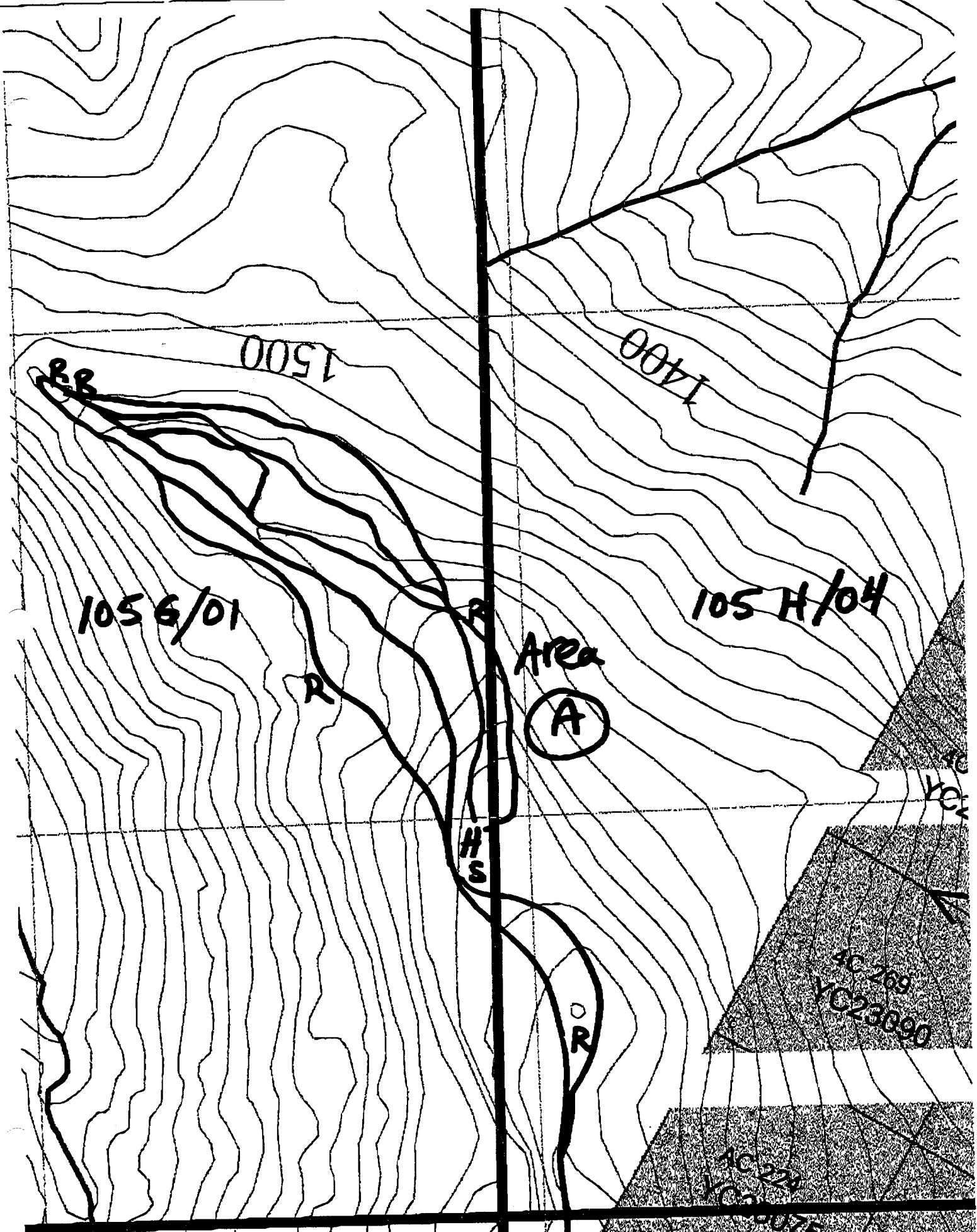
N 1

1056/01

Area
C

1400

Site - soil Sample Site



U. H. ... Land ... Site ... Soil Sample Site

105g

105G 148

pej area

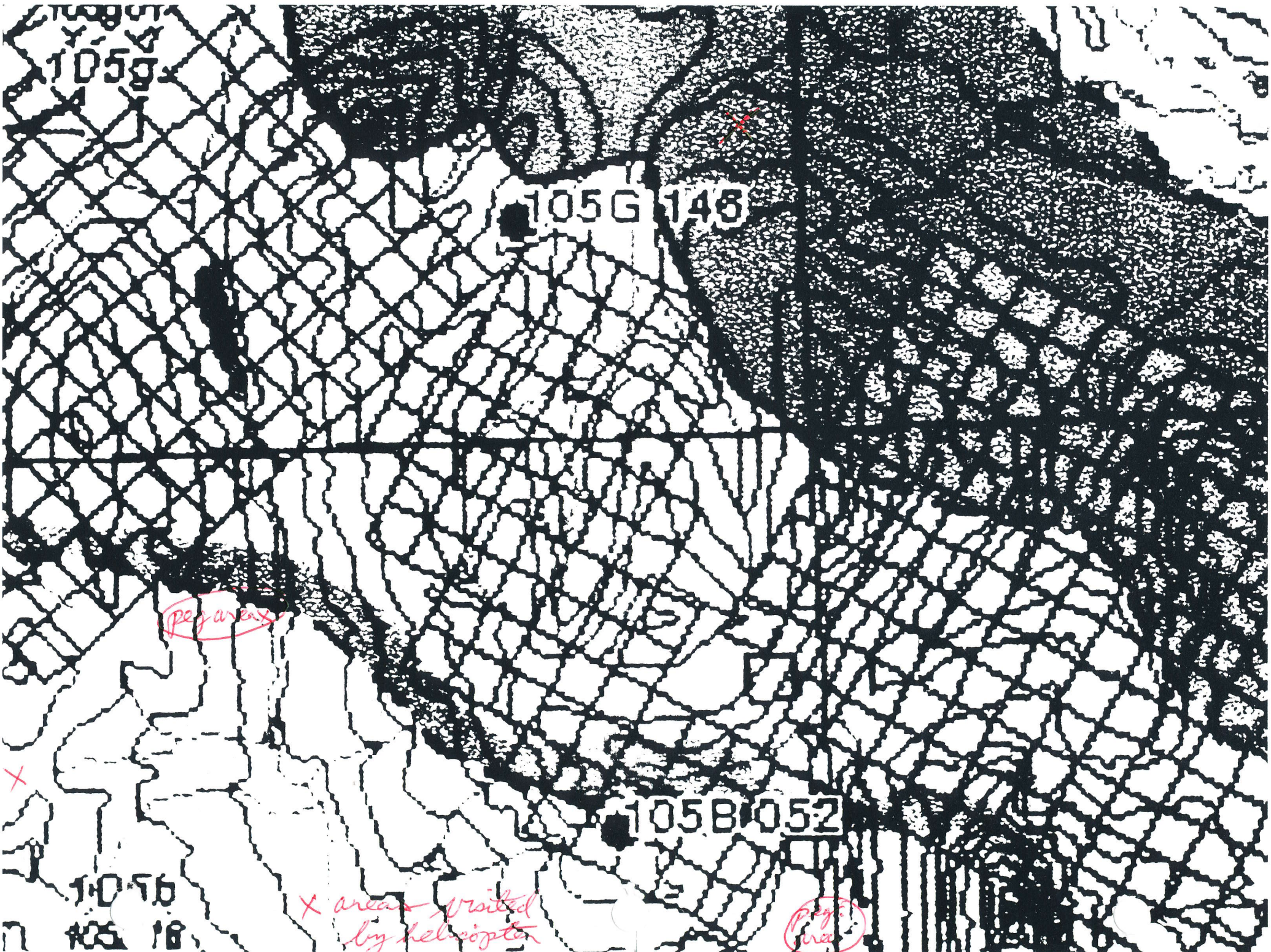
105B 052

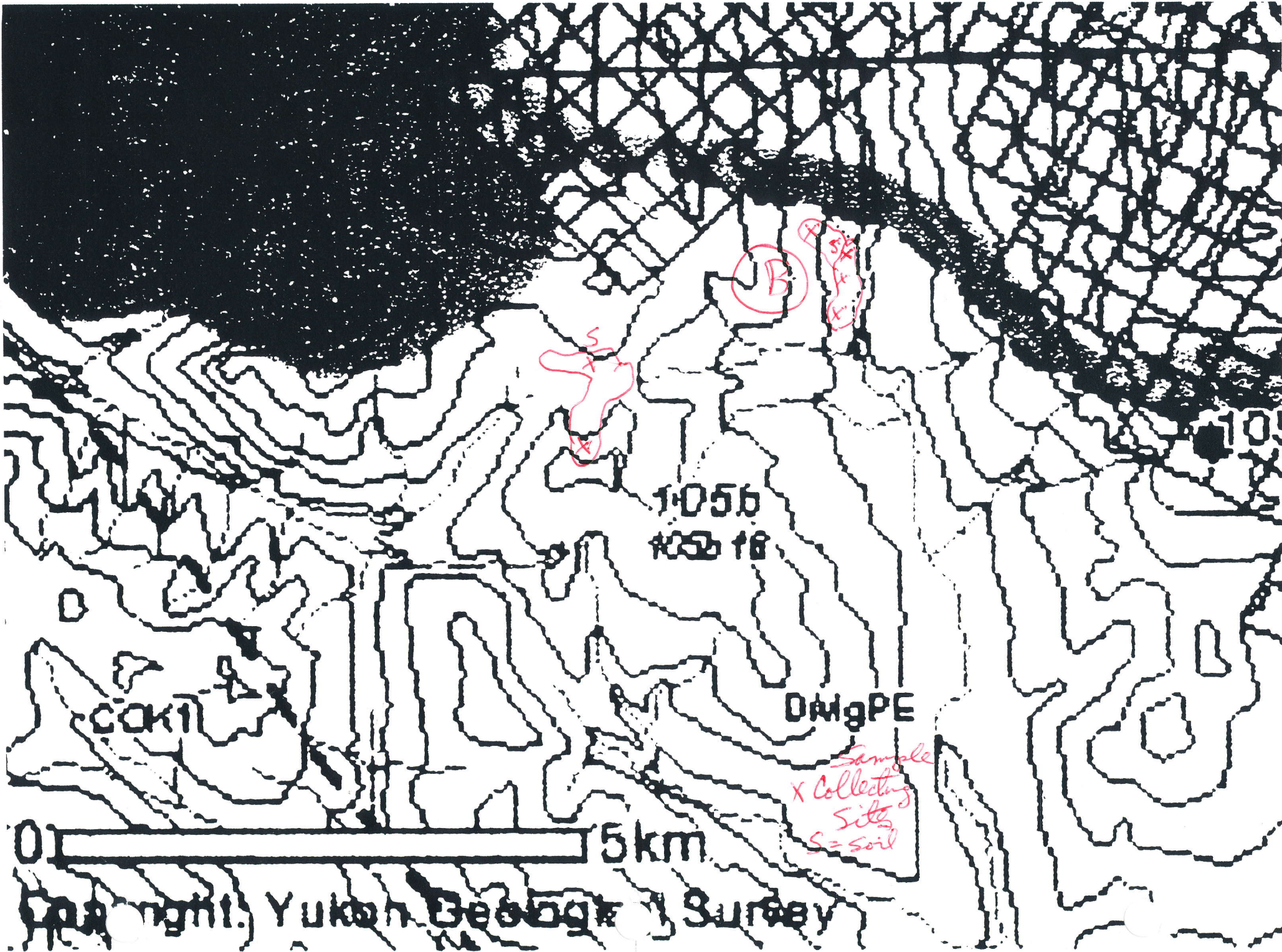
105b

105 18

X areas visited by helicopter

pej area





1056
1052 18

COKIL

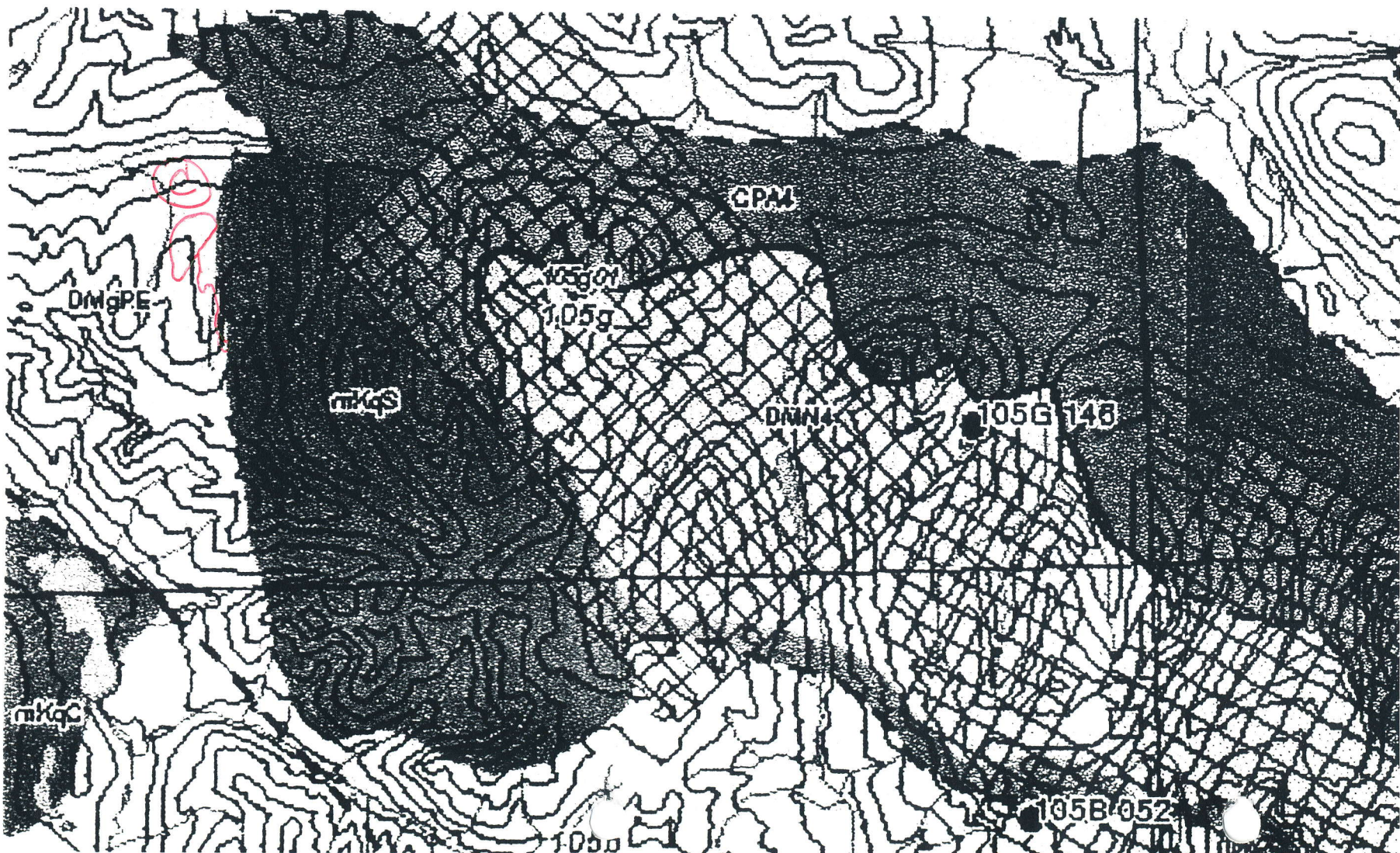
DMGPE

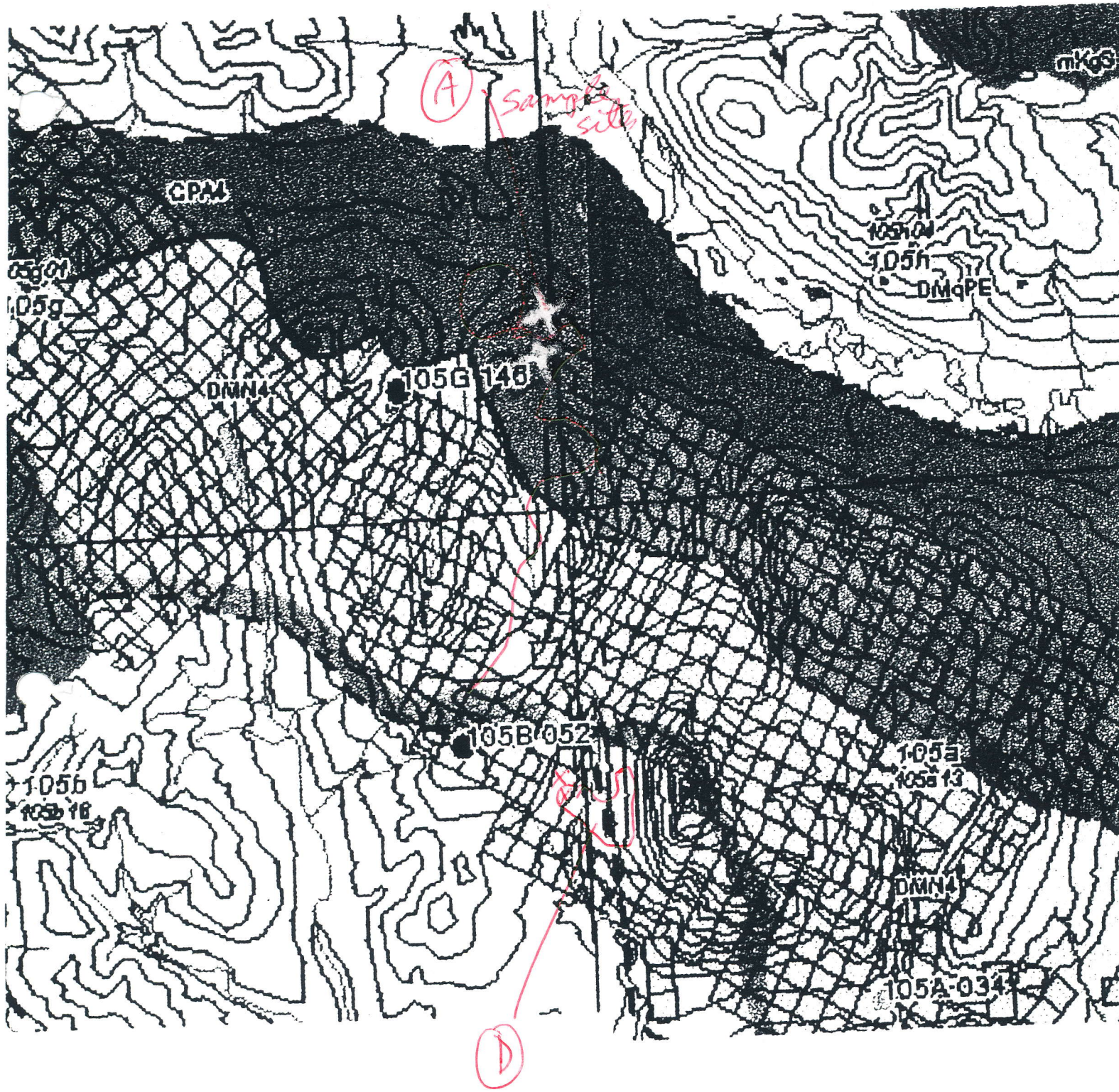
Sample
X Collecting
Sites
S = Soil

0 5 km

Yukon Geological Survey

ArcIMS Viewer

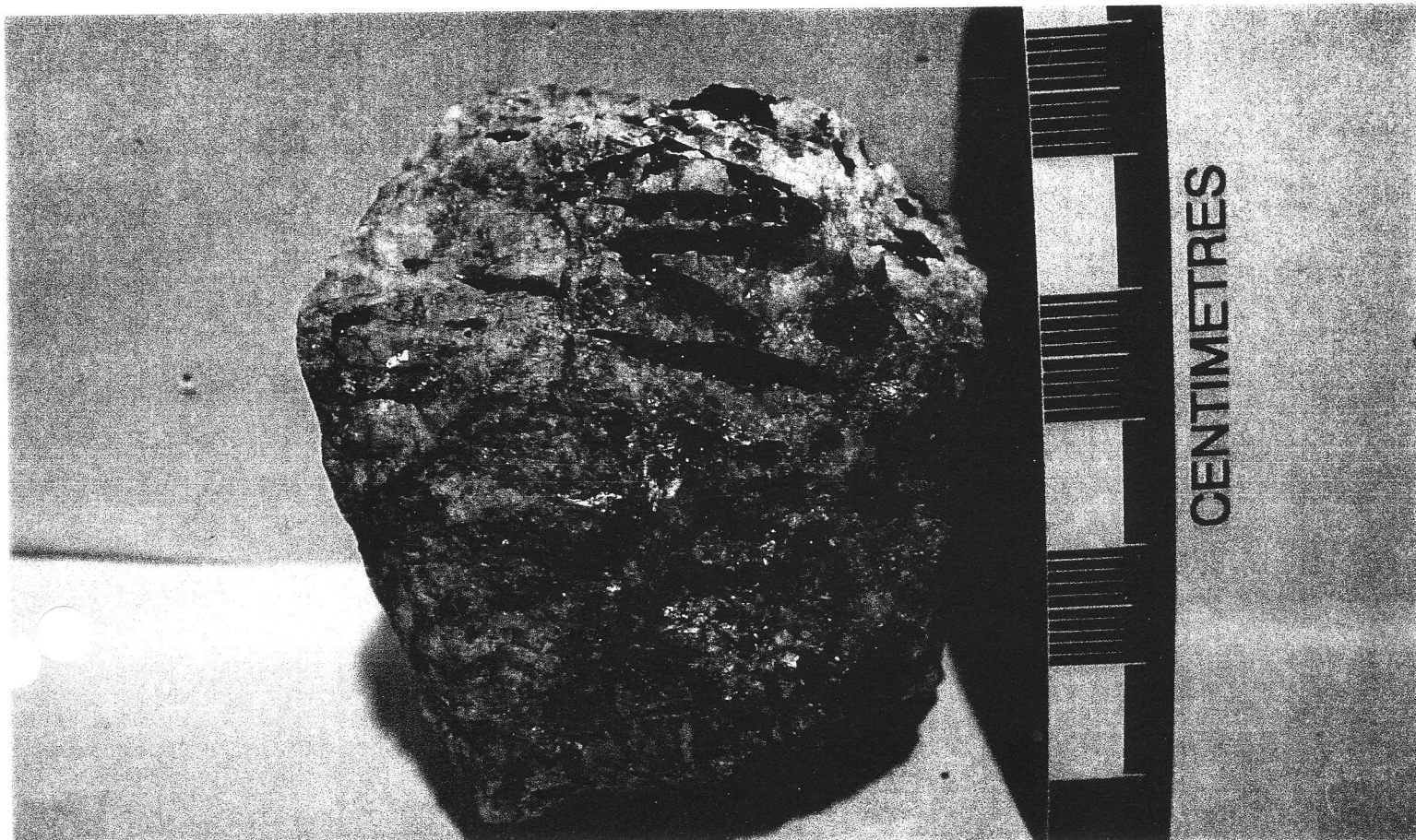


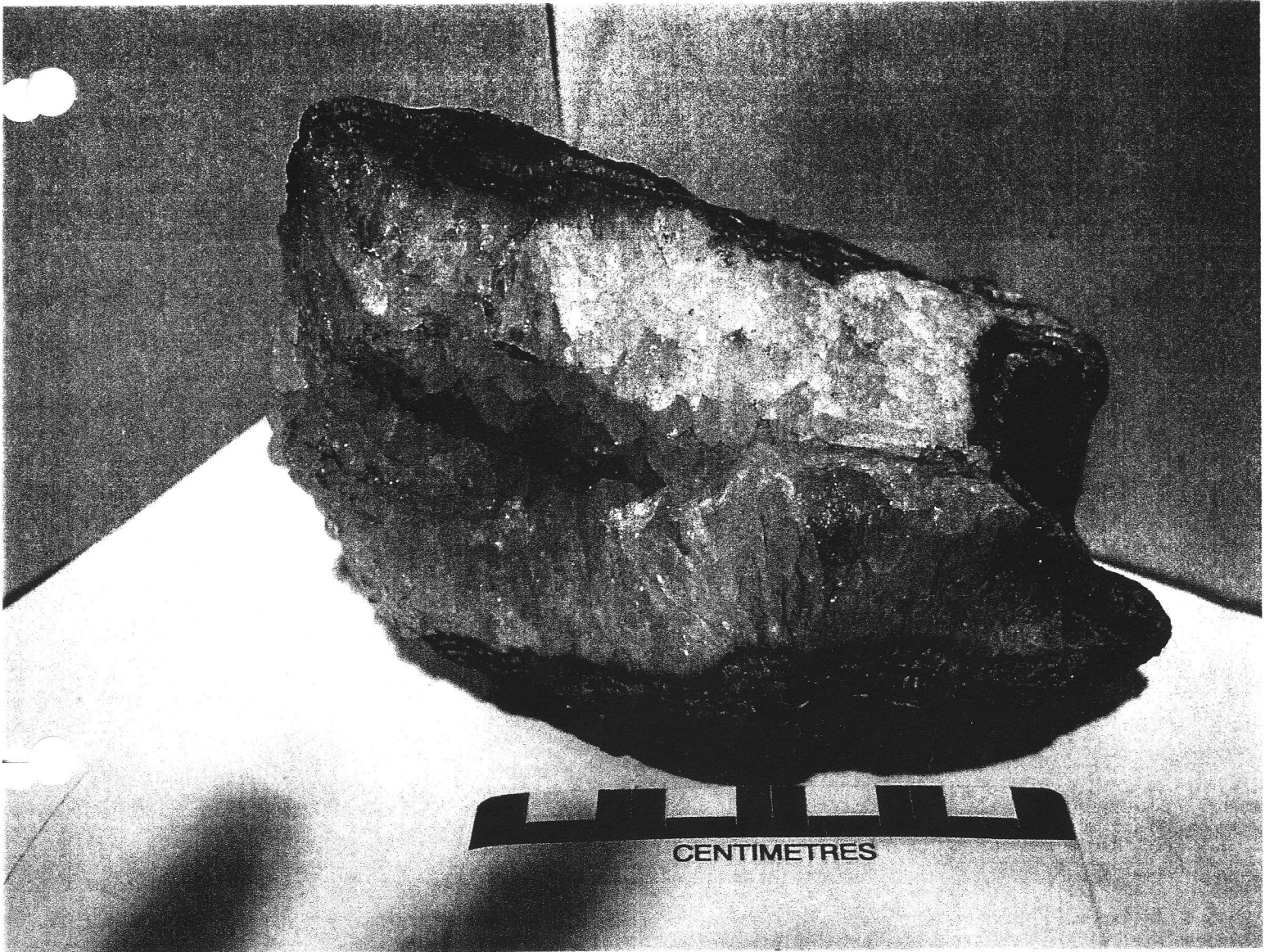






DSC01781.JPG (2240x1680x16M jpeg)







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PO BOX 6752
FORT ST JOHN BC V1J 4J2

Page: 1
Date: 23-Dec-2003
Account: JADNOR

CERTIFICATE VA03051542

Project: Yukon YMIP

P.O. No:

This report is for 2 Soil samples submitted to our lab in Vancouver, BC, Canada on 04-Dec-2003.

The following have access to data associated with this certificate:

VAN KRICHBAUM

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS61	47 element four acid ICP-MS	

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Page: 2 - A
 Total # Pages: 2 (A - D)
 Date: 23-Dec-2003
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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051542

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
03-GOLK-S		0.18		0.12	7.37	14.5	850	2.54	0.44	1.68	0.34	176.0	16.0	37	6.21	28.9
03-POLK-S		0.10	<0.005	0.29	6.25	4.4	1720	2.15	0.43	1.26	0.31	73.6	10.0	75	8.03	16.7

Comments: RE⁺ may not be totally soluble in MS61 method.



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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051542

Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
Sample Description	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
03-GOLK-S	4.13	22.3	0.25	0.8	0.081	3.04	87.9	42.9	1.22	942	0.90	1.44	11.8	28.7	920
03-POLK-S	2.97	23.1	0.16	0.2	0.066	3.47	37.3	23.8	0.96	987	1.66	1.00	15.6	32.9	970

Comments: RF may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS VA03051542

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V
Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.01	0.02	0.1	1	
03-GOLK-S		30.6	157.5	<0.002	0.02	36.1	1	4.9	169.5	0.43	<0.05	43.3	0.36	0.85	8.0	86
03-POLK-S		26.5	137.5	<0.002	0.03	0.32	1	5.3	146.5	0.09	<0.05	12.4	0.48	0.89	2.9	112

Comments: REF may not be totally soluble in MS61 method.



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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051542

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
03-GOLK-S		0.8	28.9	122	16.6
03-POLK-S		1.8	18.9	92	6.0

Comments: RF may not be totally soluble in MS61 method.



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Page: 1
Date: 23-Dec-2003
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CERTIFICATE VA03051540

Project: Yukon YMIP

P.O. No:

This report is for 9 Rock samples submitted to our lab in Vancouver, BC, Canada on 04-Dec-2003.

The following have access to data associated with this certificate:

VAN KRICHBAUM

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	27 element four acid ICP-AES	ICP-AES

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Page: 2 - A
 Total # Pages: 2 (A - B)
 Date: 23-Dec-2003
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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051540

Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
Sample Description															
03-PLK-1	0.06		<0.5	7.76	<5	120	10.0	<2	0.31	<0.5	1	60	2	0.48	4.95
03-PLK-2	0.14		<0.5	7.93	<5	220	9.9	<2	0.48	<0.5	1	33	2	0.24	3.67
03-PLK-3	0.10		6.6	0.58	<5	20	<0.5	<2	5.82	4.7	124	144	2630	14.45	0.01
03-BR-1	0.06		<0.5	7.11	<5	310	3.2	<2	0.31	<0.5	2	52	24	0.87	4.07
03-BR-2	0.06		<0.5	6.69	<5	740	3.2	<2	0.08	<0.5	11	156	18	3.75	3.79
03-BR-3	0.04		<0.5	7.76	5	310	1.5	<2	0.17	<0.5	1	123	3	1.06	3.92
03-GLK-1	0.04		<0.5	6.99	<5	1380	1.5	<2	1.80	<0.5	8	102	3	2.72	4.10
03-GLK-2	0.08		0.7	7.02	<5	1450	2.1	<2	0.89	<0.5	3	81	78	2.44	4.26
03-GLK-3	0.10	<0.005	<0.5	10.95	10	80	<0.5	<2	11.95	<0.5	12	58	65	7.55	0.55



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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051540

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 W ppm	ME-ICP61 Zn ppm
03-PLK-1	0.01	0.03	499	<1	2.71	6	700	60	0.01	<5	12	0.02	1	10	15
03-PLK-2		0.02	317	<1	3.40	5	550	53	<0.01	<5	20	0.01	<1	<10	9
03-PLK-3		13.95	652	<1	0.01	1190	10	<2	0.04	<5	2	0.02	176	<10	55
03-BR-1		0.08	30	<1	2.87	13	70	30	0.01	<5	59	0.04	3	<10	29
03-BR-2		0.88	418	<1	0.35	34	200	17	<0.01	<5	62	0.37	70	<10	75
03-BR-3		0.03	485	<1	1.86	5	200	49	<0.01	<5	27	0.03	1	<10	22
03-GLK-1		0.69	362	<1	1.85	11	430	11	0.05	<5	272	0.28	42	<10	34
03-GLK-2		0.08	176	3	2.09	3	60	51	0.38	<5	132	0.09	9	<10	59
03-GLK-3		0.07	493	1	0.68	5	350	6	0.65	5	1225	0.25	200	30	3



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Page: 1
Date: 23-Dec-2003
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CERTIFICATE VA03051543

Project: Yukon YMIP
P.O. No:
This report is for 1 Solution sample submitted to our lab in Vancouver, BC, Canada on 04-Dec-2003.
The following have access to data associated with this certificate:
VAN KRICHBAUM

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP14	Hydrogeochemistry ICP-AES	ICP-AES

To: JADE NORTH
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 Total # Pages: 2 (A - B)
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Project: Yukon YMIP

CERTIFICATE OF ANALYSIS	VA03051543
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Method Analyte Units LOR	WEI-21 Recvd Wt kg	ME-ICP14 Ag mg/L	ME-ICP14 Al mg/L	ME-ICP14 As mg/L	ME-ICP14 Ba mg/L	ME-ICP14 Be mg/L	ME-ICP14 Ca mg/L	ME-ICP14 Cd mg/L	ME-ICP14 Co mg/L	ME-ICP14 Cr mg/L	ME-ICP14 Cu mg/L	ME-ICP14 Fe mg/L	ME-ICP14 K mg/L	ME-ICP14 Mg mg/L	ME-ICP14 Mn mg/L
Sample Description	0.02	0.01	1	0.05	0.1	0.001	0.5	0.001	0.02	0.02	0.01	1	5	0.05	0.01
GRAN LAKE	0.64	<0.01	<1	0.10	0.1	<0.001	<0.5	<0.001	<0.02	<0.02	<0.01	<1	<5	<0.05	0.01



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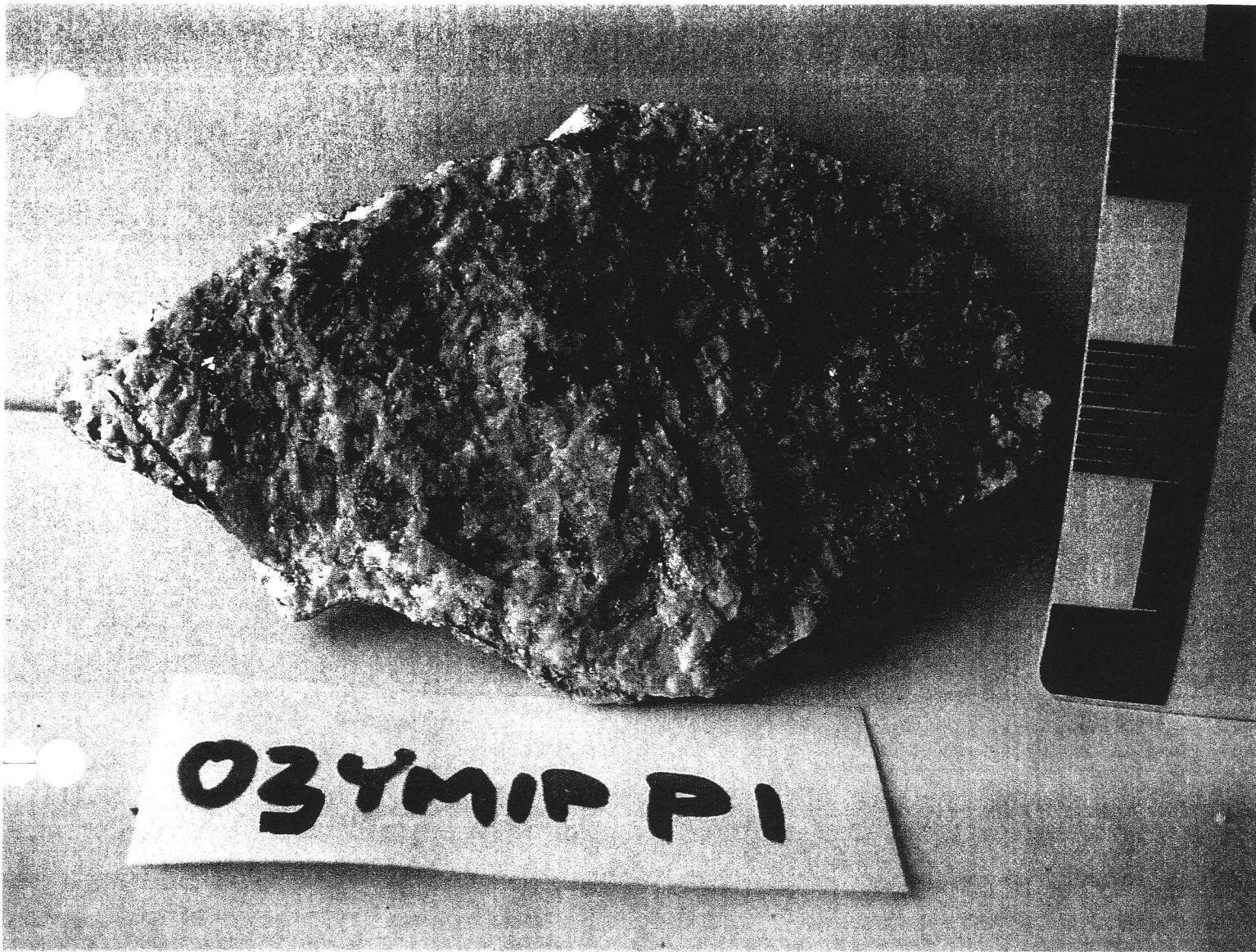
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Page: 2 - B
Total # Pages: 2 (A - B)
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Account: JADNOR

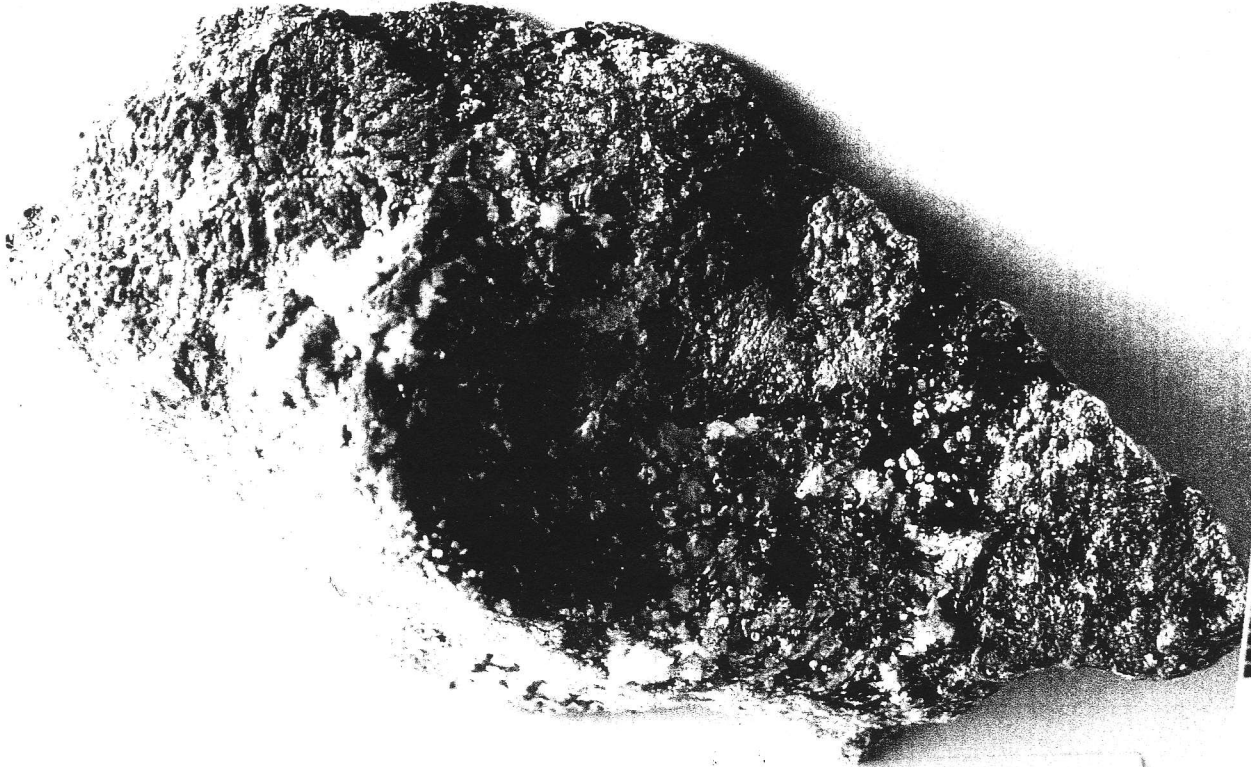
Project: Yukon YMIP

CERTIFICATE OF ANALYSIS VA03051543

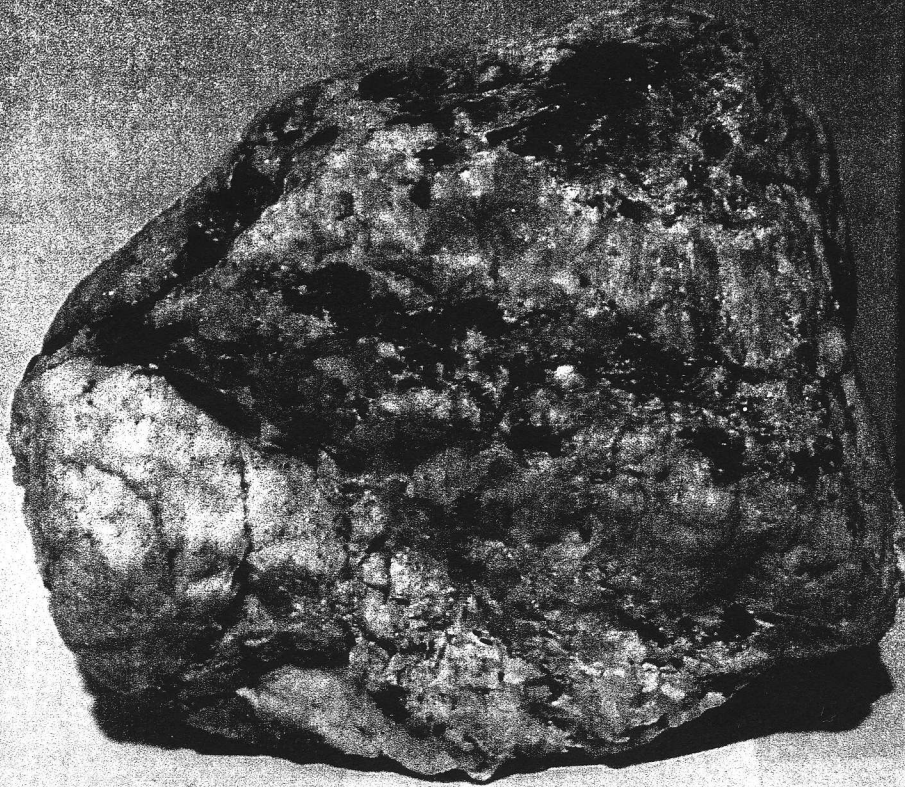
Sample Description	Method Analyte Units LOR	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14	ME-ICP14
		Mo mg/L 0.01	Na mg/L 1	Ni mg/L 0.01	P mg/L 1	Pb mg/L 0.05	Sb mg/L 0.05	Sr mg/L 0.01	Ti mg/L 1	V mg/L 0.01	Zn mg/L 0.01
GRAN LAKE		<0.01	<1	0.01	<1	<0.05	<0.05	0.03	<1	<0.01	<0.01



O3YMIP P1

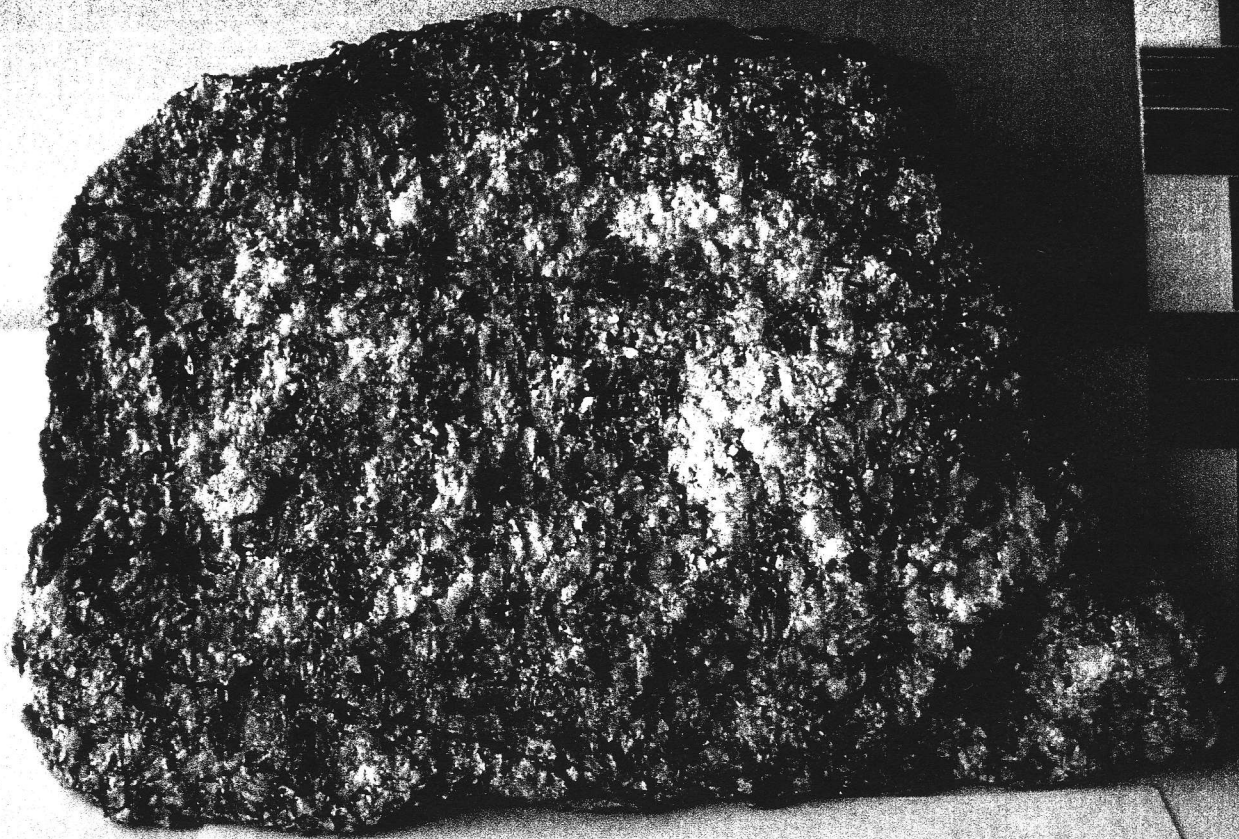


03YMIP P1



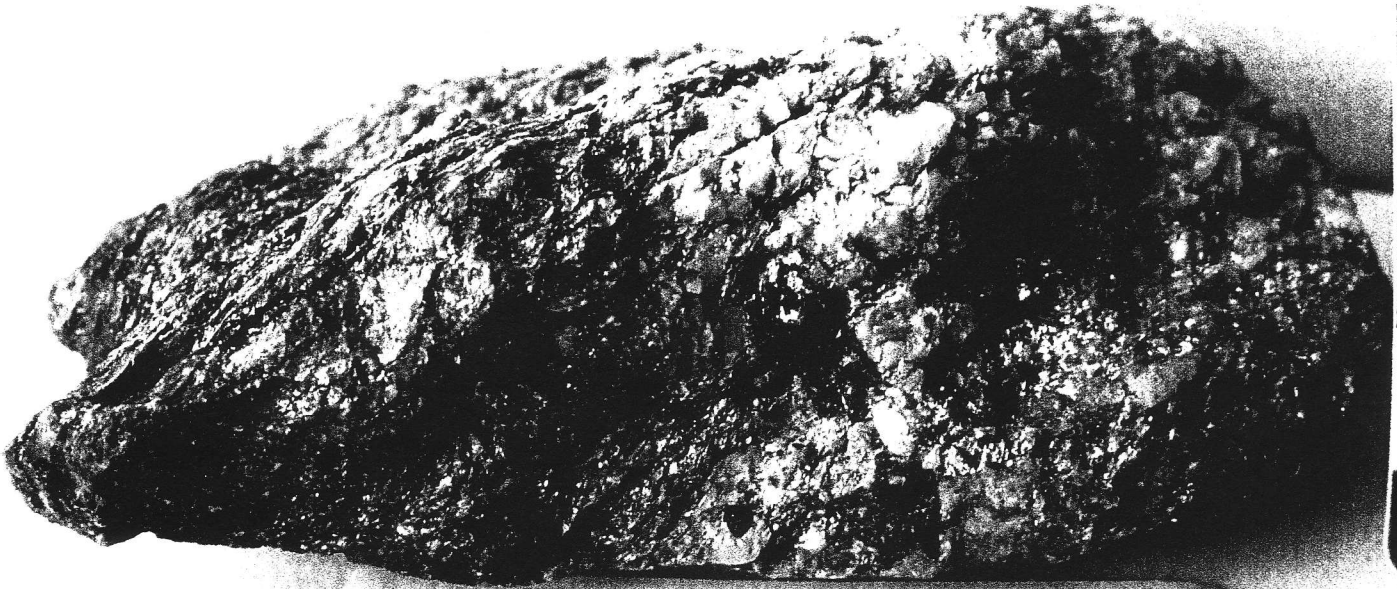
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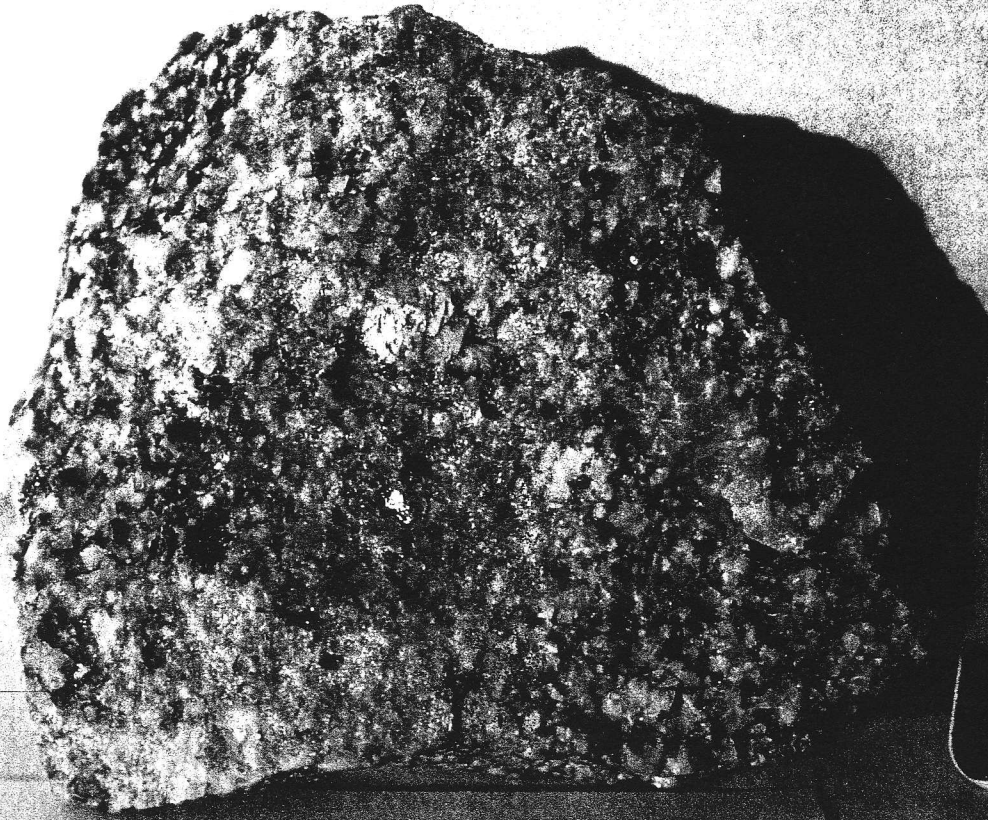


ОЗУМІР ВІ

CENTIMETRES



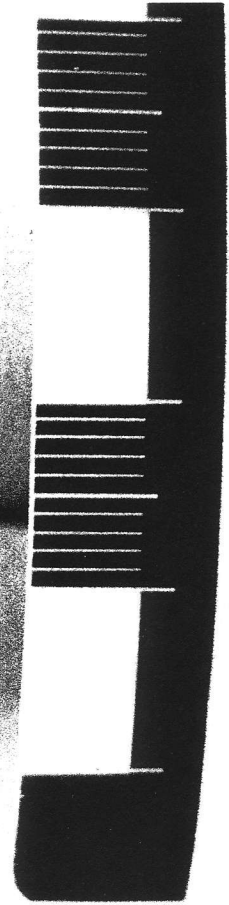
03 Y M I P B 2



OG3-YMIP61



034MIP 62



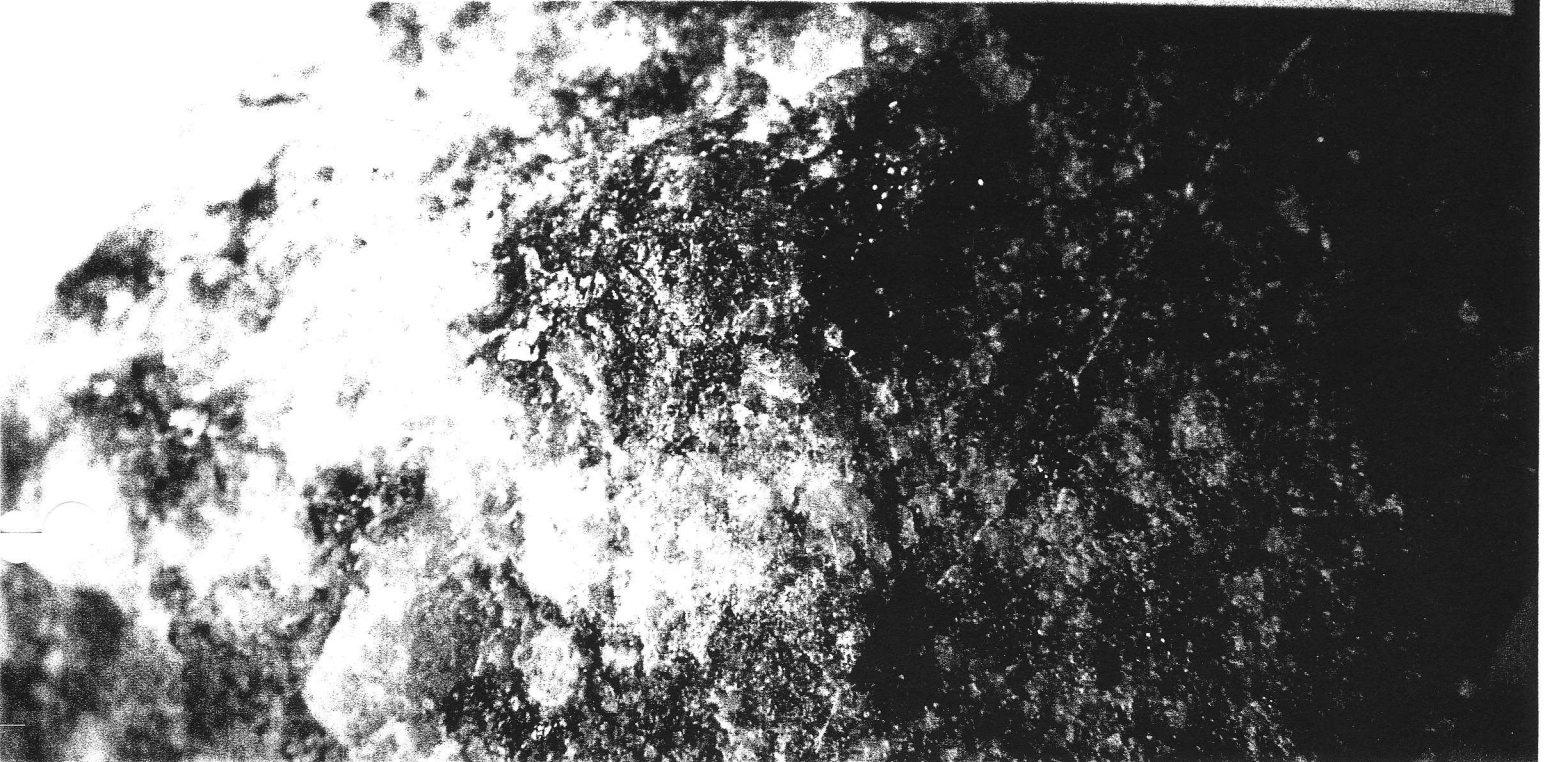
CENTIMET

03YMIP 62



03 YNIP G 3

03 YNIP G 3



Prospect Area "A" - analysis

- Medium-high emerald potential
 - Large quartz lined vugs in ultramafics indicate potentially mineralizing fluids have been exsolved from magma and are probably concentrated likely at the apex of the intrusion.
 - Abundance of chlorite schists here are good sources for chrome.
 - Close proximity to the massive quartz outcroppings on the next ridge to the west.

Prospect Area "B" - analysis

- Medium-high emerald potential
 - Extremely large quartz-pegmatite-tourmaline vein higher up above Upper Porcupine Lake. Probably 10-15 ft. thick in an area of mafic potential (I was unable to get to this area but it was easily visible at a large distance(1 Km).
 - Close proximity to the boundary of the 2 mica granite (Minfile Assessment Report 105 B 052) at the top of 105 B / 16.

Prospect Area "C" - analysis

- High emerald potential
 - Lots of statistically high stream sediment geochemical values for elements that run with beryllium in a stream draining the area type below (next point)
 - Presence of felted tourmaline crystals in quartz veins running through phlogopite mica schists.
 - Close proximity to the boundary of the 2 mica granite (Minfile Assessment Report 105 B 052) at the bottom of 105 G /1.

Prospect Area "D" - analysis

- Medium emerald potential
 - Lots of ultramafic rocks, a good source for chrome
 - There is a large quartz-muscovite-tourmaline pegmatite nearby
 - The area lacks in quartz veining

Conclusions -

Note on the geology map that there is a thrust fault running east-west through the project area that defines a thin ribbon-like surface band of ultramafic rock. Much of the potential emerald geology seems to occur along this feature. I think that this large fault provides a route for ascending fluids to migrate toward the surface. Also, although the observations were very quick, I think the Area "C" geology (quartz-tourmaline veins in phlogopite mica), along with the stream sediment geochemistry, provides another good prospect for emeralds.

Recommendations -

The project area warrants further prospecting for both emeralds and gold. The area along the thrust fault in particular should be more closely examined for emeralds. There is a lot of open ground along this contact to explore for emeralds. The area along the western edge of the two mica granite on the west side of the study area is also prospective for emeralds, and warrants further study.

2003
July 8 - Tues.

YMIP 03-033

4 persons
Mixed Sun. Cloud
Warm

- Leave W.L.
- Start w 4x4 stuck in ditch on sand hill
- Load in rain
- Lots of bugs
- Argo to Hasselburg Lake - arrive @ 11:00 PM
- Prospect creeks where rock shows along the cat trail
 - All material is glacial - till/erratics/moraine.
 - No bedrock exposures
 - Surprising amount of granitoid rocks along w significant amts. of mafic/ultramafic rocks and some schist.
 - Moderate amt. of quartz seams in erratics
 - No /v. little large mica patches
 - No black tourmaline in qtz.

Equipment List

1. 2 • 4x4 P.U.'s
2. 1 • 23' trailer
3. ARGO
4. Yamaha Trike
5. ARGO trailer
6. Satellite phone
7. Chain saw
8. Solar power system
9. Computer
10. GPS
11. 4 • Handheld radios

105A-13

4 persons
Miss Sanblom

July 9 - Wed.

- Work on ARGO + Trike (Jesse)
- Prospect Hasselburg Lake beach (glacial/fluvial)
 - Large megacrystic granite w/ biotite
 - Qtz / Qtz w mica - no tourmaline is.
 - Lots of mafic rocks + schists
 - Some chlorite schists - also nephrite (↓ quality)
 - V. little in metamorphic minerals in rocks
- Leave load for helicopter at Hasselburg Lake at the airstrip for resupply later when the helicopter comes for the whole day trip.
- Some large very dark boulders along NW side of north end of Hasselburg Lake - could possibly be black Nephrite.
- The amount of granitic / porphyritic rocks along beach indicates granite exposures must occur locally in the lower lying areas covered with glacial till in the valleys. → could be even more granites to create emerald than people suspect.
- Collect one black (nephrite?) boulder for later testing.

4 Persons
Hot/sun + clouds

July 10 - Thurs

- Leave Hasselburg Lake @ 10:00 AM

- Ron also drives a load for much of the way - across the plateau to Hole in the Wall Lake

- Prospect area North of Hasselburg Lake

• Glacial material in valley - no bedrock

• Mostly mafics / some granitoids

• Serpentine w magnetite abundant

• Dumite w magnetite

• V. little qtz. / no black tourmaline

• Bedrock on valley walls

• Mostly mafics - non mineralized except for lots of magnetite

• Serpentinites

• Talc / limonite stain from siderite

- Cross staked area on plateau - mafics + talc-siderite

- Fight buckbrush + Balsam Fir thickets after plateau

- Camp short of Crystal Valley objective

• Fiberopted from staking crew - find no posts from 4C claims.

4 persons

July 13 - Sunday

- Work on Camp structure + infrastructure
- Helicopter load arrives from Hasselburg Lake airstrip @ 11:00 AM
- Helicopter set out onto ridge beyond 4C claims - SITE (A) on map.
- Prospect open ground on ridge N. of 4C claims
 - Mostly mafics / ultramafics w lots of magnetite
 - Abundant talc / siderite rocks and talc seams. Talc foliated and green colored (Chrome content?) - Sample/photo taken
 - Lots of serpentine / serpentinite w magnetite
 - Lots of dunite w magnetite - sample taken
- Some / not much qtz. - non mineralized, no black tourmalines, no reaction zones with schists
- Some mafic schists (chlorite / biotite), some phyllites. Non mineralized, no garnets
- Qtz not abundant - non mineralized, no black tourmaline or micas
 - One well crystallized qtz run from microlytic cavity? geode? seam? w X'tals up to 3" in length. Samples taken
- Find 4C claim posts 175 Post #1, 223 - Post #2 on way home
- Pass thru Jesse 22 / Dawn 22 / Dawn 23 claims - high mostly dunite, some serpentinite
 - Some vesuvianite - sample taken
 - Some qtz from seams - non mineralized - samples

105 G-1 and H-4

July 16 - Wed

4 persons
Cloudy, rain, fog

- Worked around camp till helicopter comes (9:15 AM)
- Helicopter to upper lake in Porcupine River Valley
 - set down at north end - take soil sample
- Prospect north end of lake and to the West
 - On drumlin (knoll) found good emerald rocks
 - 2 mica granite - sample taken
 - Various schists / quartz veined - samples taken
 - Off west side of knoll found large (2 foot) boulder from granite pegmatite
 - Biotite / muscovite mica, qtz + black tourmalines - samples taken
 - Visually spotted a pegmatite vein of large size (est. 5-10' thick) in erosion cut about 1/2 mile above tourmaline boulder site
 - * Needs further investigation! #claims
- Prospect north facing lake above Porcupine River
 - Mostly granite, some mineralized - samples taken
 - Not good for emeralds - no schists or tourmaline
- Bad weather blows in - forced return to camp
 - Helicopter does set down by Pyramid Mtn peak + leaves for town. To make up for day with a set-out tomorrow, but it will be a serious setback for Grassroots Prospecting Grant project
- Prospect SE side of Pyramid Mtn.
 - Zoisite found in many "runs" indicating pods or veins above - samples taken
 - Mostly dumite / serpentinite, some talc.

105 B-16

G

July 17 - Thurs.

- Helicopter to site North of 2 mica granite stock according to the geology map - Area C
- Turns out to be still in the granite
 - Hike north taking rock samples
 - Granite is a peculiar porous texture and red color - samples taken
 - Hike to top of ridge on West side of valley.
 - Granite becomes light colored - sample taken
 - Beyond ridge to the West some phylites / schists were encountered with abundant quartz veins.
 - One sample with tourmaline in quartz in contact with a golden schist was found before helicopter came. - Sample taken
- * Very good mineralogy for emeralds
 - Recommend further prospecting to the South and west to find the source, ^{for above} as well as further North toward geochem site with higher values for V, Sn, Sb, Ni, Cu, Mn, W

Area D

- On return back to camp we get a petout beyond Dawn 11 claim. Prospect area East of claims, find all 59 + 60 No 1 posts - not where they are on the claims map!
 - lots of schist and quartz seams, but no tourmalines
- Pass through Jesse 10, 11 claims - find + tag posts
- Also find + tag posts for Jesse 8, 9, and 2.
- Prospect claim line Jesse 11 to Jesse 2 on way home
 - Mostly schists and dunite / serpentinite. Some quartz - little of much note as no tourmaline was found.

July 19 - Sat.

4. 10. 1951
Cool, windy, sun

- Bad weather in AM. do geology sketching (prelim.) and catch up on field notes. Dry soil samples
- In PM, prospect a bit around camp, but mostly bag rock samples and do close up with the eye loop on the YMIP rocks.
- Bag + tag rocks for the trip out.

July 22 - Tues.

4 persons
Windy,
warmer than
yesterday

- Decide to go back to area of yesterday beyond Pyramid Mountain. by area (A)
- more chloritic schists and talcose serpentinites than before. Take samples.
- Not as much quartz veining as I would like to have to create emeralds. West wall of East Ridge doesn't contain the Uggly quartz of the Ridge top.
- Perhaps further north on the East Ridge would be a suggested place to look more, however the climb isn't possible in one day.
- Lower down the valley the schists become more micaceous and less mafic and less promising for emeralds.
- There doesn't seem to be much glacial till here in the steeper valley sections - better exposures of felsic schists - Decide to turn around as it is getting less likely for emeralds. Collect samples of felsic schist

4 persons
Busty, cool

- July 21 - Mon

- Traverse to East side of Pyramid Mountain way beyond claimed areas, toward area (A)
- Investigate long straight "stream" / gulch with lots of peacock staining on the outside of the rocks (mineral rich water from further up?)
 - appears to be a possible fault feature and should be investigated further for possibility of metallic sulfides.
- Most of the rocks are dunites / ultramafics so it could just be pyritic coloration.
- More vesuvianite found. All occurrences to date appear to be reaction zones, perhaps indicating hydrothermal fluid alteration
- * These vesuvianite lenses may hold some of the key for emerald exploration here.
 - Samples taken - also of the peach colored mineral with it.
- Lots of gossanous staining on East side
 - perhaps a VMS deposit underneath?

July 27 - Sunday

4 persons
Extreme windy
Cold, Cloudy

- Write report notes - Bad weather
- Tag and bag previous days rocks
- Dig more of soil samples
- Figure out GPS is lost - prob at Dawn-56-#1 post
- Work on geology maps to determine where to go next.
- Correlate above maps with the aeromaps also.
- Start writing the geology descriptions of the 4 areas for this project, A-D.
- Sort rocks for priority for taking out and for assays.
- Plan to go to area (D) next time.

July 29 - Tues - Area (D)

- Prospect open ground North and East of Jesse 1244 claims. Take photos & samples
- All material found is either eluvial/colluvial or glacial, from the local Crystal Valley upslope.
 - Most mafic/ultramafic rocks
 - Serpentinites
 - Dunite
 - Talcoses
 - Peridotite
 - Some schists, like those in upper Crystal Valley - or phyllites
 - Chloritic schist - Samples taken
 - Biotite schist
 - Metasediments
- A large patch of white pegmatite with tourmaline was found in this area.
- Samples taken, also soil samples at 2 sites.
- No reaction zones/contacts of pegmatite were found, but the large volume suggests a very close source. Photos taken.

July 30 - Wed. - area (D)

4 persons
Sun/cloud

- Make 5 new claims Kyle 1-5 adjoining Jesse claims

- Kyle 5 at 9:20 AM

4 10:10

3 11:00

2 12:00

1 12:10

- Repack rock piles at Kyle 1+2 (No. 1 Posts) and Kyle 3-5 sites

- Prospect north of Jesse 12-14 claims and East of Jesse 12 claim away from the claim block

- Collect samples of pegmatite \bar{w} and $\bar{w}o$ black tourmalines

- Collect other mineral samples and take soil samples for assay.

- While the area looks promising due to the large amt. of pegmatite in ultramafic rocks, there are no (golden) schists here.

- doesn't seem like much happening at the contacts chemically

- Collect some ultramafics with nicely formed magnetite crystals in them.

- Some of the pegmatite is colored lilac, rose, and purple - Lithium? - Samples taken.

105-B-16

G

4 Persons
Mixed cloud, rain

Aug 5 - Tuesday

Break camp - pack camp in stush site
in 5 gal. buckets where possible
- Burn all items with food smells.

- Prospect area east of the 4C block
on the plateau

- Much serpentinite and pitted pseudo-
nephritic rocks all about a half
a loaf of bread size. Samples taken.

- Some patches may be low quality
nephrite, suggesting that the local
Hasselburg Nephrite comes from
metamorphosed serpentinites, and
they probably represent the target for
the nephrite for prospecting.

- Much of the East slope seems to
be monolithic - not much variety.

- Valley floor north of Hasselburg lake
is almost all glacial till / sandy soil
with no bedrock exposures.

- Arrive at Hasselburg Lake late in the
day - very tired, long day.

G

105-B/16
105-A/13

2 persons
Mostly sunny

Aug. 12 - Tuesday

Leave Hasselburg Lake for Watson Lake
- only Damian and myself. Jesse and Kim are staying there longer.

- Prospecting the cat road reveals some new occurrences of jasperoid material on one of the hills the road goes up.

- Also some granitoids with strange crystal texture - bipyramidal hexagonal with corroded surfaces.

- When broke it is vitreous like quartz. Is this the high temp. form of quartz crystal formation?

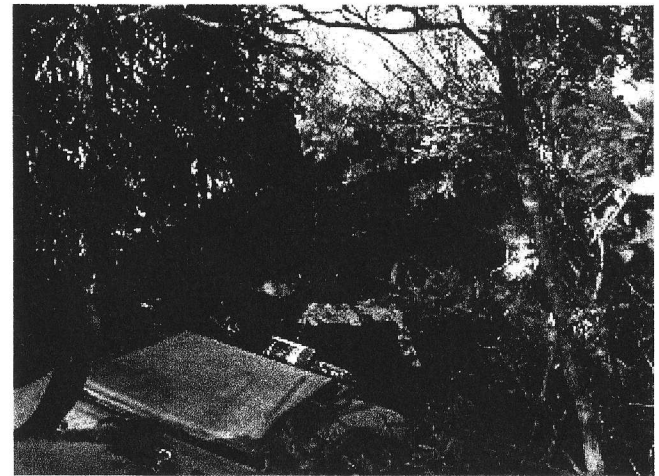
- Sample taken

- Also found some erratics in one area by a local lake with large 1 ft. wide quartz seams in the foliated rock. (Local source?) - appear unmineralized.

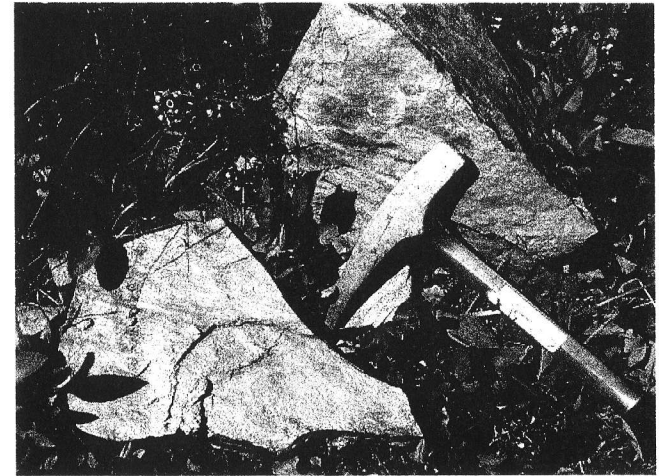
- Arrive at trailhead, pack + load truck, haul Argo back to Watson Lake
- Time for a shower and a milkshake!

6
105A/13
105A/14

Setting Out



The Tools





Grassroots Prospecting Exploration**Submission #1**

1. Number of working days - 15.5 days for 4 people (= 62 people days)
- July 8 to Aug. 12, 2003
2. Submission costs - see Appendix A for particulars / page 2

A. Camp costs	\$ 2170.00
B. Equipment	\$ 2075.00
C. Assays	\$ none yet
D. Transportation	\$ 257.05
E. Helicopter	\$ 4869.24
F. Supplies	\$ 160.26
G. Maps and Reports	\$ 525.43
H. Report preparation	\$ <u>none yet</u>

Total \$10,056.98

3. Partner working on project - Jesse Forrester

4. Additional notes

- A. Solar panel equipment is not listed on your "Self Owned Rental Rates / YMIP Claims" sheet, so I prorated it against what my generator cost (it is a cheap one). This saves project costs due to no fuel expenses.
- B. Laptop computer equipment is also not listed on your "Self Owned Rental Rates / YMIP Claims" sheet, so I called MicroAge Computers in Whitehorse for a monthly rental rate (without Microsoft Office, etc.-they cost more). PolarCom in Whitehorse said that MicroAge Computers is the only computer company they thought that rented laptops in Whitehorse.

Final expenses - Submission #2

Jan. 27, 2004

Emerald Project / YMIP # 03-033

A. Assays (receipts enclosed)	\$ 382.12
B. Report preparation (no receipts)	<u>est. \$ 20.00</u>
Total	\$ 402.12

Grassroots Prospecting Exploration

Project Total

1. Number of working days - 15.5 days for 4 people (= 62 people days)
- July 8 to Aug. 12, 2003
2. Submission costs - see Appendix A for particulars / page 2

A. Camp costs	\$ 2170.00
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D. Transportation	\$ 257.05
E. Helicopter	\$ 4869.24
F. Supplies	\$ 160.26
G. Maps and Reports	\$ 525.43
H. Report preparation	\$ 20.00

Total \$10,479.10

Appendix A

- A. Camp costs: 15.5 days @ \$35.00/day/person x 4 persons = \$ 2170.00
- B. Equipment Rental Value - (our own @ Yukon Allowance)
 1. Trucks (two 4 x 4's): 2 x \$362.50 = \$ 725.00
[commer. rate = \$1450.00/mo. x 25% = \$362.50/mo.]
 2. Argo (industrial ATV-8 wheel): = \$ 475.00
[commer. rate = \$1900.00/mo. x 25% = \$475.00/mo.]
 3. Argo transport trailer: = \$ 120.00
[commer. rate = \$480.00/mo. x 25% = \$120.00/mo.]
 4. Argo tub trailer: = \$ 90.00
[commer. rate = \$360.00/mo. x 25% = \$90.00/mo.]
 5. Solar Panel/Regulator/Battery (15 W):(no fuel cost) = \$ 40.00
[comm. rate = unknown. -Purchase cost is 50% less than Generator]@[\$425.00/mo. x 25% = \$106.25/mo.]
 6. Chain Saw: 16 days @ \$3.75/day = \$ 112.50
[commercial rate = \$ 450.00/mo. x 25% = \$112.50/mo.]
 7. Sat. phone: = \$ 100.00
[commercial rate = \$ 400.00/mo. x 25% = 100.00/mo.]
 8. Yamaha 3 Wheel ATV: = \$ 200.00
[comm. rate = unknown.]
[4 x 4 ATV is \$1500.00/mo. x 25% = \$375.00/mo.]
 9. Laptop Computer: 16 days @ \$3.75/day = \$ 112.50
[commercial rate = \$ 450.00/mo. x 25% = \$112.50/mo.]
 10. GPS: 2 weeks - then it was lost. 2@ \$7.50/wk. = \$ 15.00
[commercial rate = \$ 30.00/wk. x 25% = \$7.50/wk.]

11. Hand-held Radios: 4 @ \$21.25/mo.	= \$	85.00
[commercial rate = \$ 85.00. x 25% = \$21.25/mo.]		-----
Equipment total	= \$	2075.00
D. Transportation: 530 km @ \$0.485/km	= \$	257.05
1. Two trips from Wat. Lk - road end - Wat. Lk. = <u>530 Km</u>		
E. Helicopter: 4.3 hr. (incl. fuel, taxes)	= \$	4869.24
1. Receipt attached		
F. Supplies:		
1. Gasoline for Argo, 118.76 litres @ \$.849 -Receipt att.	= \$	160.26
G. Maps and Reports		
1. Maps (including shipping) - Receipts attached	= \$	89.86
2. Assessment Reports (incl. ship.) - Receipts attached	= \$	435.57

Maps and Reports total	= \$	525.43