

Bruno / Rob

24 Feb

Alex Burton came in to-day & showed me this info. on another project on which he performed duplicate sampling. One soil analyzed at -80 mesh & second pulverized to -150 mesh. There is a lot more "noise" with -150 mesh. I am not sure how this all applies to the Spring. At any rate Alex will be passing along his own comments on N. Trout Cr. soil geochem to Pat Whittall and we will probably hear more.

The attached is apparently "classified info" ??

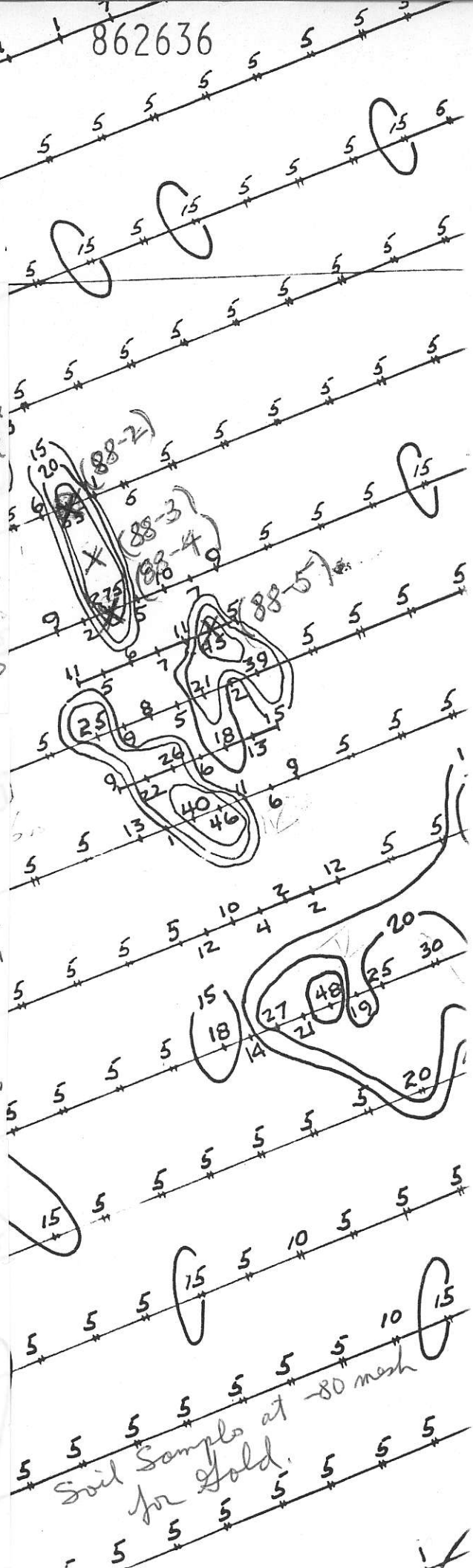
Ed/Bruno/Rob

27 Feb 89

~~Three~~ Pieces of data are missing that might help in understanding this data 1) overburden geology 2) sample prep for initial analyses & 3) analytical methods of various determinations 4) geophysics (VLF) I have several observations 1) the higher gold conc. in the -150# vs -80# fit well with gold/size fraction graphs by R. DeLibio presented in Halifax, N.S. He found a consistent pattern of higher gold in the finer size fractions. 2) The humus soil horz. is consistently higher in gold (only 2 profiles) & probably reflects concentration by biological processes.;

- 2 -

3) The plan map gold patterns for -80# are somewhat erratic but the anomalous values along the right side (area of profiles) do form a general pattern over 8 lines (wide spaced) that warrants investigation. This anomaly is not particularly strong but does show a relatively consistent trend. 4) Follow-up that I would recommend would be trenching (backhoe) and overburden & rock sampling.



Soil Samples at -80 mesh for Gold.

Mike

Alua → file -

You might make a comment
on this prior to sending off to
Bruno / Rob. ✓

JD

~~BB~~ MD Alua → file -

Spring project

We should try some research for
grain size and soil sample horizon on
the Spring. This could be a good
project for Michael.

A.S.A.A

BB -

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Ed. ALEX BURTON, P.ENG.
GEOLOGICAL CONSULTANT

Comparison of -80 and -100
mesh
Soil Samples

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or
RES: (604) 270-2827

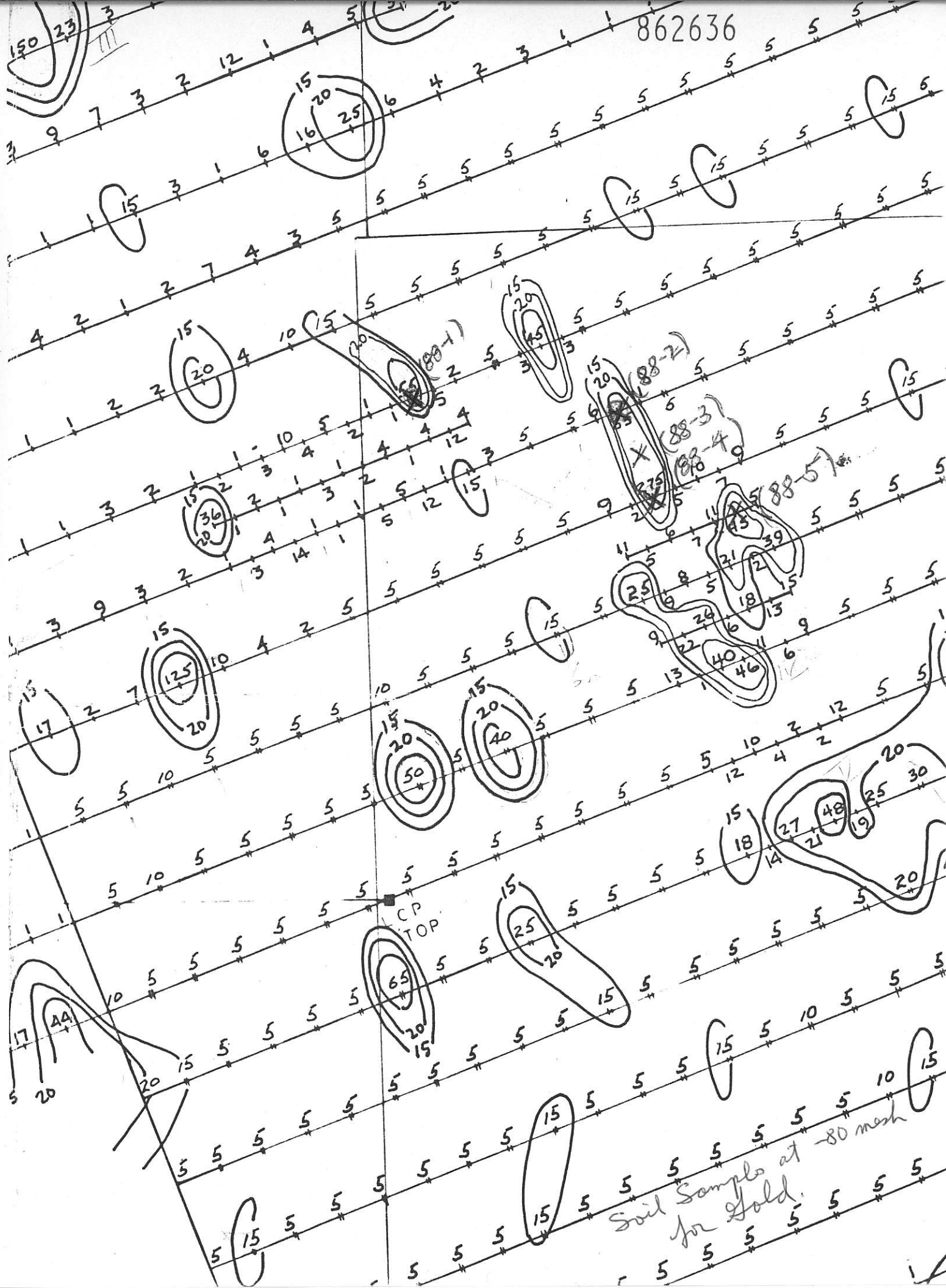
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VANCOUVER, B.C.
CANADA V6B 1V9

Bruno / ~~Rob~~ ~~(MD)~~ 23 Mar.

This got "buried" in
my "In" Basket. Mike G.
reviewed the data & his
comments are attached.

Please understand that
Alex Burton does not have
the prop. for option - he
wanted to show us how Au in
soils can vary with size Fract.

862636

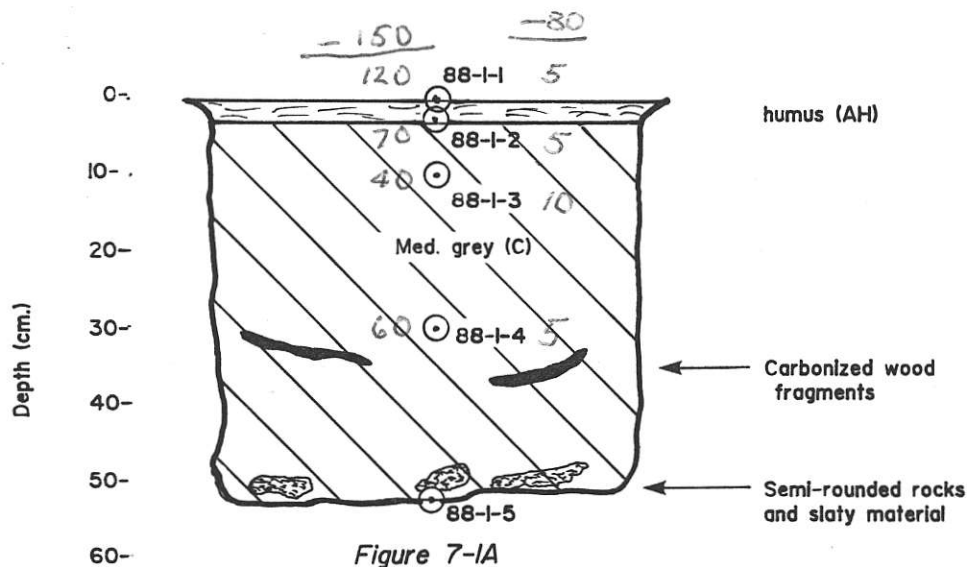


SOIL PROFILE 88-1

Original Grid Designation: 500N 550E
 Original Site Depth(Est.): 6 - 10 cm.
 Local Slope: 15° to North
 Original Geochemical Value(Gold - ppb): 55

#	HORIZ.	FR.ANAL.	AU(ppb)	AG(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
88-1-1	A _H	-150	120	2.1	40	*100	200
88-1-1	A _H	-80	5	2.3	44	14	128
88-1-2	C	-150	70	3.8	50	*100	200
88-1-2	C	-80	5	2.3	58	17	137
88-1-3	C	-150	40	2.7	70	*100	200
88-1-3	C	-80	10	1.9	57	23	146
88-1-4	C	-150	60	2.4	60	*100	300
88-1-4	C	-80	5	2.6	77	18	175

* = detection limit
 whole sample pulverized to -150 mesh



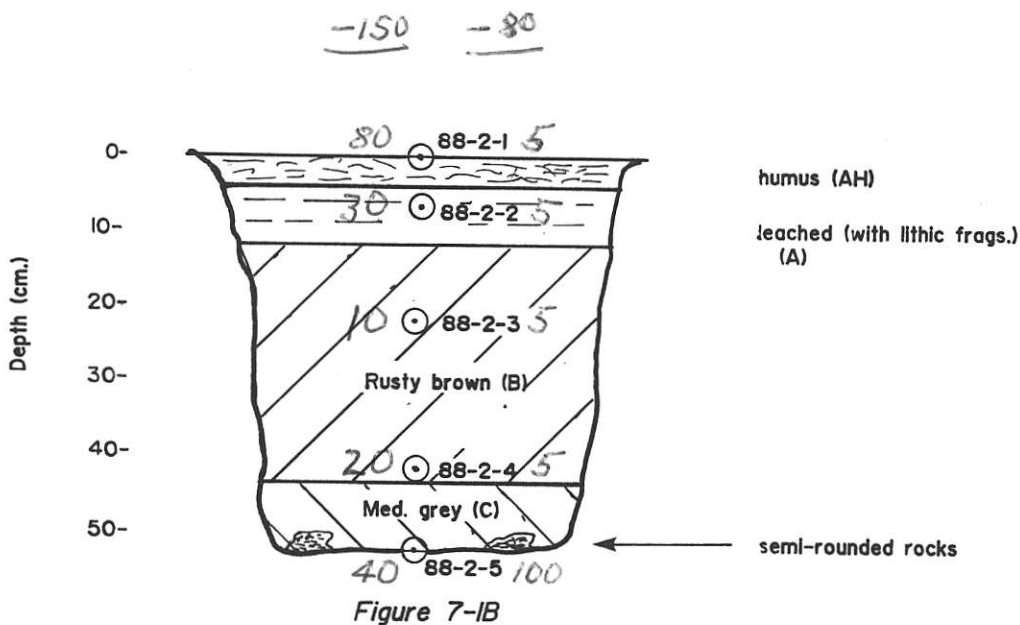
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SOIL PROFILE 88-2

Original Grid Designation: 400N 750E
 Original Site Depth(Est.): 10 - 15 cm.
 Local Slope: 10° to North
 Original Geochemical Value(Gold - ppb): 55

#	HORIZ.	FR. ANAL.	AU (ppb)	AG (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
88-2-1	A _H	-150	80	2.3	40	*100	*100
88-2-1	A _H	-80	5	1.8	18	11	49
88-2-2	A	-150	30	1.8	20	*100	*100
88-2-2	A	-80	5	1.4	15	9	42
88-2-3	B	-150	10	2.5	40	*100	200
88-2-3	B	-80	5	1.7	27	12	63
88-2-4	B	-150	20	2.6	60	*100	200
88-2-4	B	-80	5	1.8	45	16	103
88-2-5	C	-150	40	4.3	80	*100	*100
88-2-5	C	-80	100	3.1	58	14	110

* = detection limit
 whole sample pulverized to -150 mesh



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SOIL PROFILE 88-3

Original Grid Designation: 400N 750E

Original Site Depth (Est.) 10 cm.

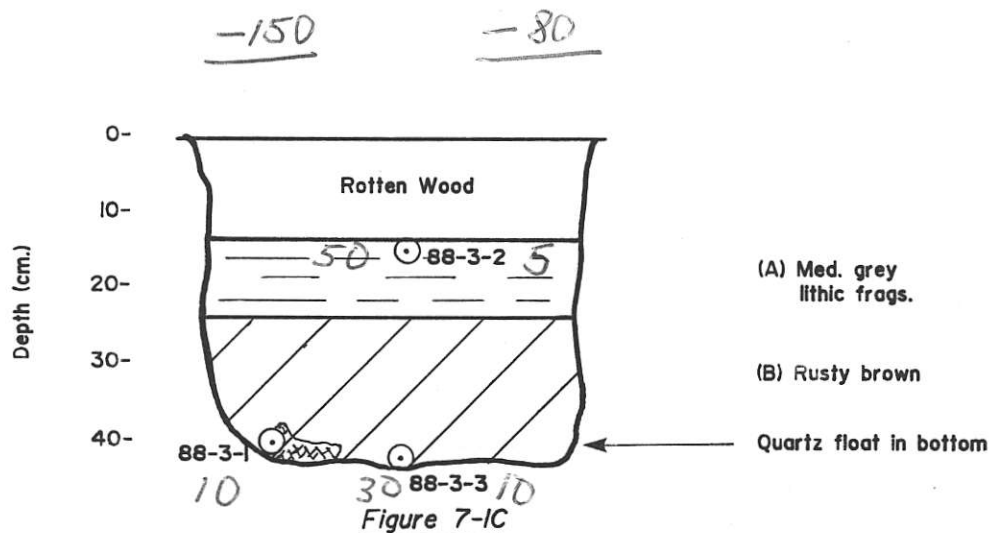
Local Slope: 5° to Northeast

Original Geochemical Value (Gold - ppb): n.a.

#	HORIZ.	FR. ANAL.	AU (ppb)	AG (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
88-3-1		qtz. rock	*10	0.4	*10	200	*100
88-3-2 A	-150		50	4.6	50	*100	*100
88-3-2 A	-80		5	4.2	37	13	101
88-3-3 B	-150		30	1.9	30	*100	*100
88-3-3 B	-80		10	0.7	17	8	56

* = detection limit

whole sample pulverized to -150 mesh



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SOIL PROFILE 88-4

Grid Location: 95 m. grid south from soil profile 88-3

Original Site Depth(Est.): 8 - 10 cm.

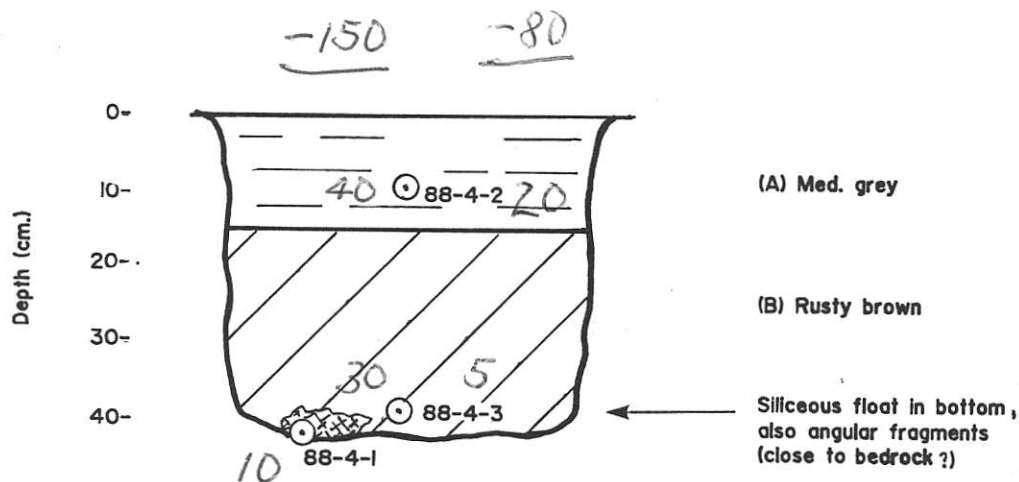
Local Slope: 3° to Northeast

Original Geochemical Value(Gold - ppb): 275

#	HORIZ.	FR. ANAL.	AU (ppb)	AG (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
88-4-1		qtz. rock	*10	0.3	*10	*100	*100
88-4-2 A		-150	40	2.0	20	*100	200
88-4-2 A		-80	20	1.3	15	15	57
88-4-3 B		-150	30	3.6	50	*100	*100
88-1-3 B		-80	5	2.5	44	16	122

* = detection limit

whole sample pulverized to -150 mesh

Figure 7-ID

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SOIL PROFILE 88-5

Grid Location: 85 m. @ 115° from soil profile 88-4

Original Site Depth(Est.): 15 cm.

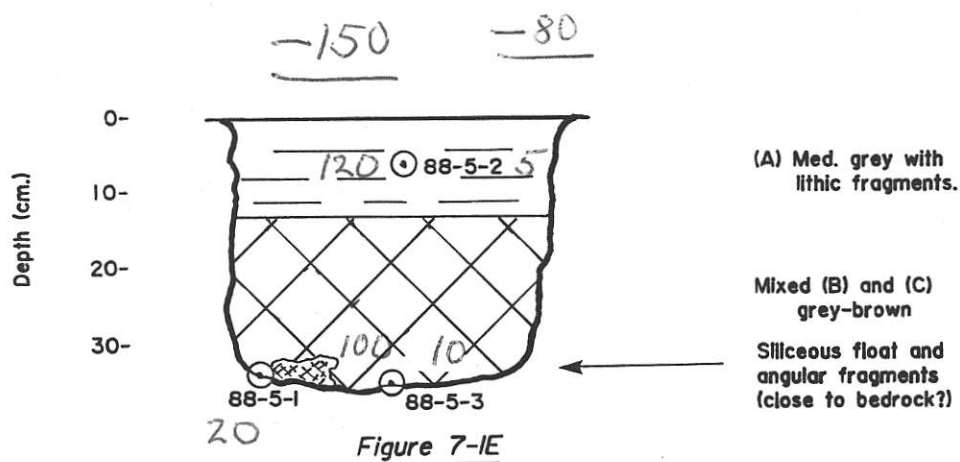
Local Slope: 13° to Northeast

Original Geochemical Value(Gold - ppb): 45

#	HORIZ. FR. ANAL.	AU(ppb)	AG(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
88-5-1	qtz. rock	20	1.7	10	200	*100
88-5-2 A	-150	120	3.2	40	*100	*100
88-5-2 A	-80	5	1.5	37	19	95
88-5-3 B/C	-150	100	3.7	110	*100	200
88-5-3 B/C	-80	10	2.6	85	32	245

* = detection limit

whole sample pulverized to -150 mesh



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