

ONLY FIELD NOTES

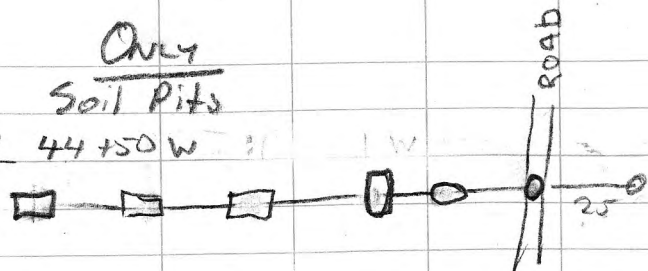
1988

Complete

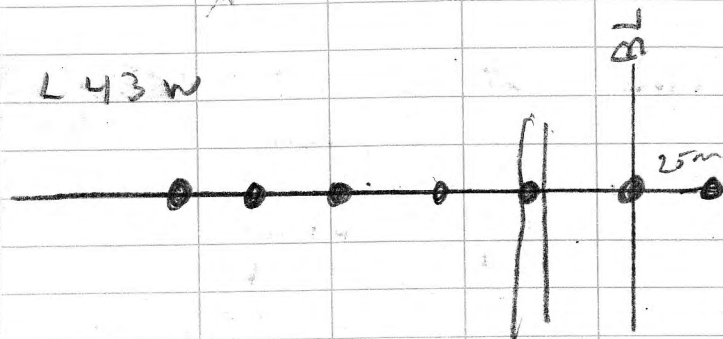
007031

Only
Soil Pits

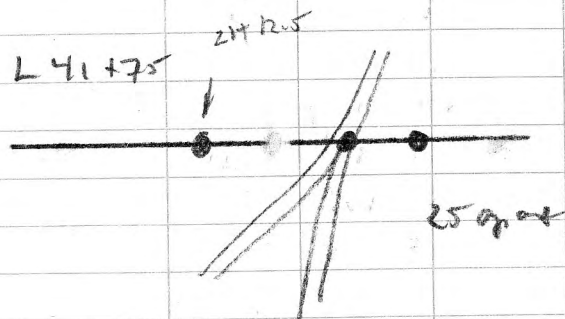
L 44 + 50 W



L 43 W

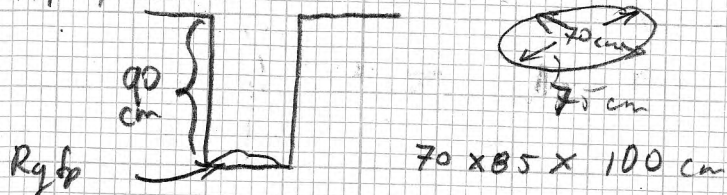


L 41 + 75



July 18/88

Pit 1

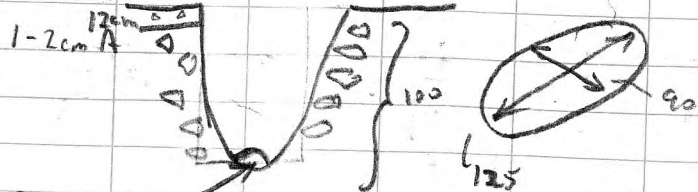


Rgdp

335001H

- Rgdp : buff - weakly rusty surfaces, spotty pyroclastic stronger rusty fract ± pyroclastic
- : 5-15% anhedral - subhedral feld phenocrysts 0.5-3 mm ± weakly clay alt? buff-whit
 - : 2-10% anhedral round qtz eyes 1-2 mm, clear to slight greyish
 - : set in grey-buff cryptic siliceous matrix
 - : v. rare weak fine qtz stringers
 - : ote strongly fract in numerous directions dominantly 035 (vert) 324° (vert)

Pit 2



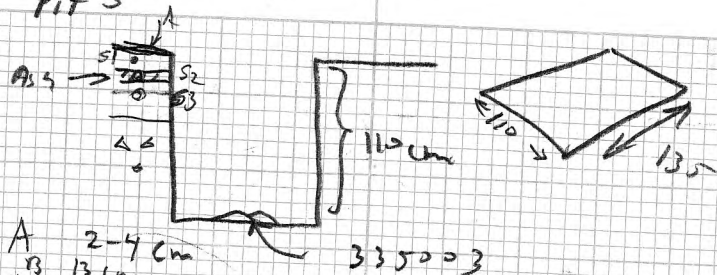
335002

90x125x100 cm deep

335002: Bedrock strongly fract.

- Rqfp: similar to 335001 but generally more strongly rusted surfaces & fract limonite, weak hem., weak Mn
- fract surfaces & also weak scorodite?
- Py 1-3% severely rusted nearly completely removed; diss, fine v. fine sub-euhedral
- Aspy? 1% spotty, masses v. fine bright silvery-greyish
- Scorodite diss masses, spots in more strongly weathered parts (near surface) of some pieces
- Feld' phenos less distinct
- Qtz eyes 1-12%

Pit 3



A 2-4 cm

B 13 cm

Ash 8-10 cm

335003: Bedrock, strongly fract

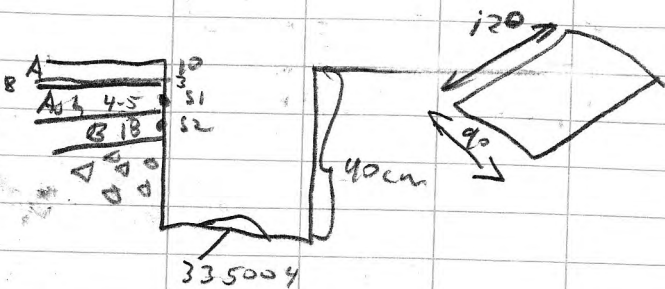
bio feld' h' & Mp: med-dark greyish
rough brown surface
- v. fine grained
dominantly fresh locally
strongly silicified (?)

- hb fine euhedral, fresh 5-8%
- bio dk brown, fresh 2%
- feld euhedral clear 20%
- qtz antedial aggregates 120%?
- Py 1-2% v. fine, fresh diss antedial - subeuhedral
- Cp 1% - trace v. fine antedial diss

Remainder siliceous mix of qtz & feld & crypto mafics

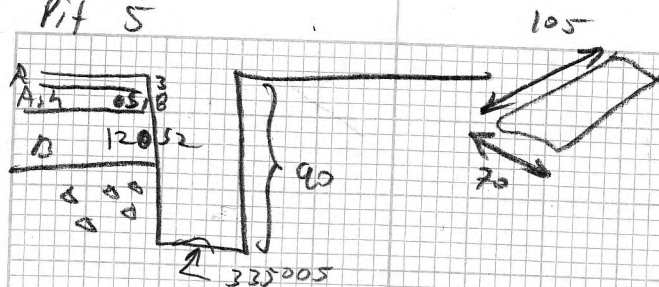
= unit being strongly altered (clay - sil) Rqfp? - trace limonite, Mn, & scorodite

Pit 4



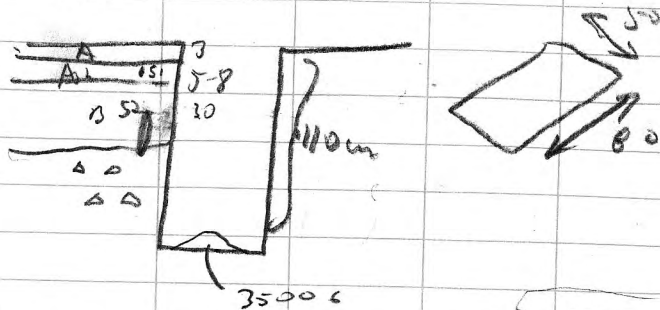
- 335004 : Rqf, buff-near white
 need rusty surfaces
 & fract dominantly
 limonite, weak Mn
 - fine grt eys (1mm) 1%
 clean
 - creamy & near white
 euhedral feld (2-3%)
 - local subcrop, 2-10 cm angular
 - minor permafrost at 85 cm

Pit 5



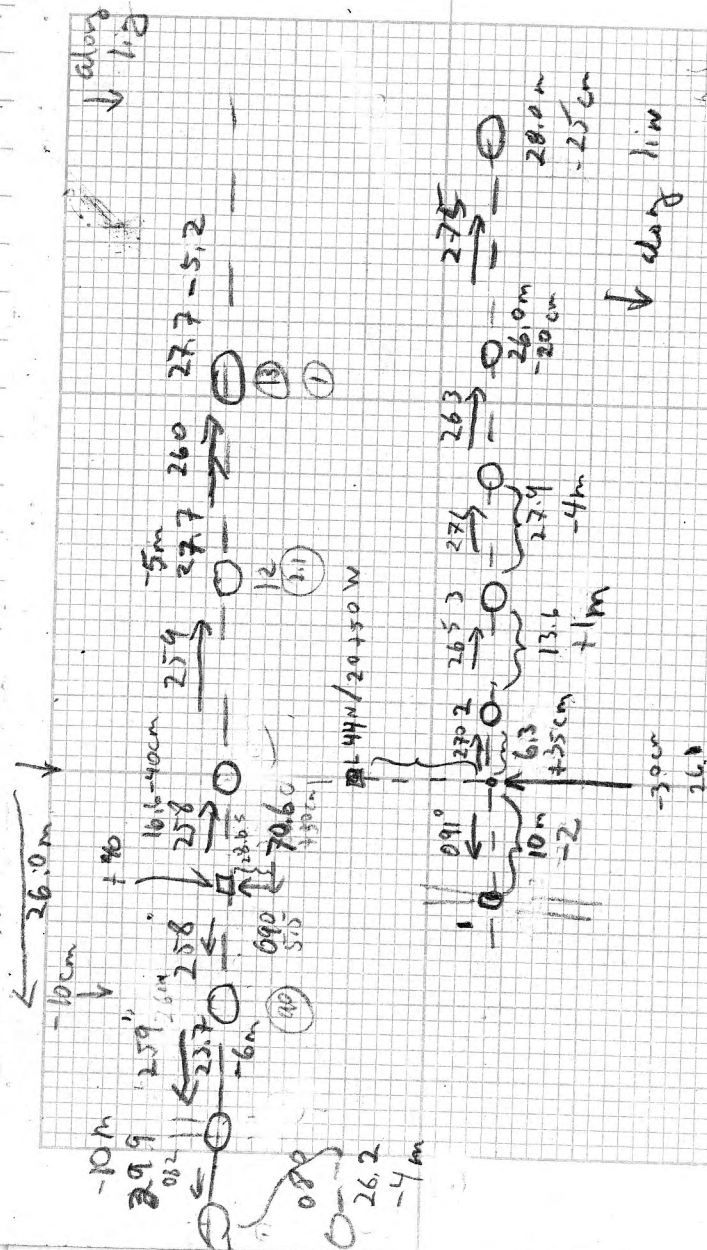
- 335005 : Rqf : buff surfaces buff-near
 rusty, weak Mn
 1-2% clean grt eys
 feld 1-3% distinct-indistinct
 2% rusty fine-v fine dis py
 local hb fine - need euhedral
 masses
 Cp locally 5% v. fine
 dis & aggregates
 Spotty limonite throughout
 - as local subcrop
 - gritty clay in bottom of
 pit mixed subcrop
 - permafrost at 90 cm

Pit 6

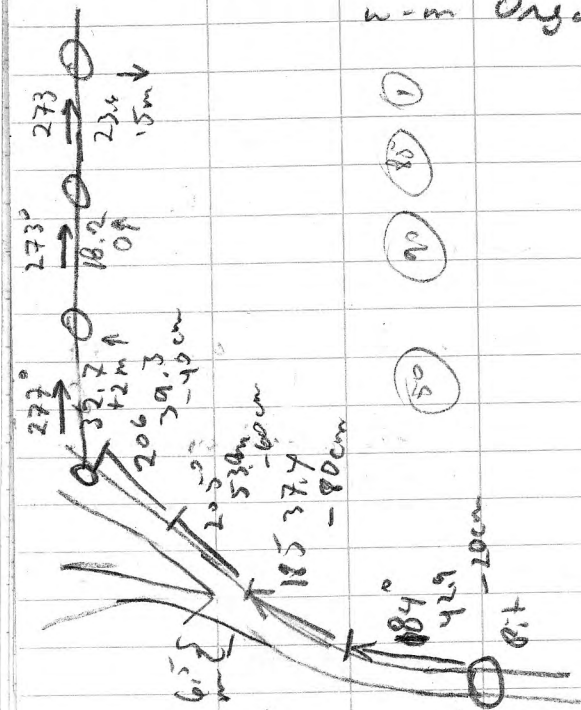


35006 : R? S a QM?

- med greenish-creamy grey
- v. fine grained, surface w r, w lly
- vague anhedral-sub field phenos (1-3 mm)
- bio 2-3% med bio
- strongly weathered to near pinkish (rusty) brown (phosphite?), anhedral
- 5% dark mafic masses
- as local subcomp 3-10 cm angular
- Mo - 1-2% v fine drs
- Molybdenite



Soils Pit 2 : sandy silt, mB 6 cm depth
w-m Organics



Soils

Pit 3

P351 - mB silty mnd sand w-m Organics
5 cm depth, above ash

P352 - m-l gy m sand, 0 organics
18 cm depth = Ash

P353 - mB gritty silt, v w organics
25 cm depth

Pit 4

P451 - m-l gy m sand 0 organics
12 cm depth Ash

P452 - mB, silt, v w Organics
25-30 cm depth

Pit 5

P551 - HB-H gy, m sand, v w
Organics 10 cm depth Ash

P552 - mB clayey silt, gritty
v w Organics, 25-35 cm
depth

Pit 6

P651 - H gy, m sand 0 organics
6 cm depth Ash

P652 - mB gritty silt
v w Organics,
15-45 cm depth

Pit 11

P11 S1 - mB silty sand
m organics 16cm
= brown Ash? ±

P11 S2 - lt gy msand 0 organics
25cm

P11 S3 mB gritty silt v. w 0
35cm

Pit 10

P10 S1 Ash, v w 0 15cm

P10 S2 m-silty rB silt, w-vw 0
12-25cm

Pit 8

P8 S1 - Ash ltgy, sandy w 0
8-10cm

P8 S2 Gritty silt, m orange brown
w organics 20-30cm
E N X

Pit 7

P7 S1 - Ash ltgy sandy 0 org
15cm

P7 S2 - silt, m orange brown
v w 0, 20-25cm

Pit 15

P15 S1

Ash ltgy - lt brown
sand, v w 0,
15-12cm

P15 S2

Gritty silt m orange brown
v w 0, 25-30cm

Pit 16

P16 S1 - Ash ltgy, sand 0 org.
15-25

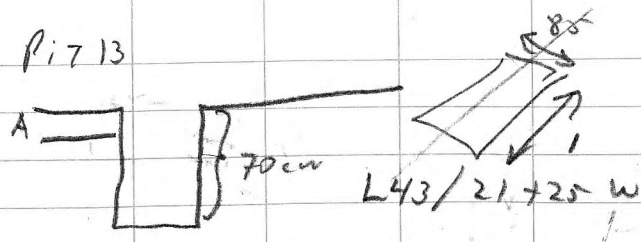
P16 S2 - Gritty silt m orange brown
v w 0
30-40cm

Pit 17

P17 S1 - Ash ltgy (brownish), sandy
v w 0.
15-20cm

P17 S2 - silt, m brown, w-vw 0
20-35cm

Pit 13



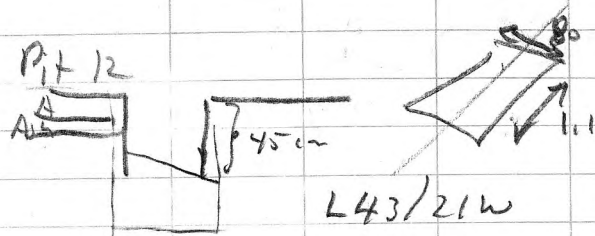
A: 13 cm

A₂ 12-20 cm

Perm. drust. from 60 cm

B = minor R_g b, angular pebbles - small cobbles

Pit 12

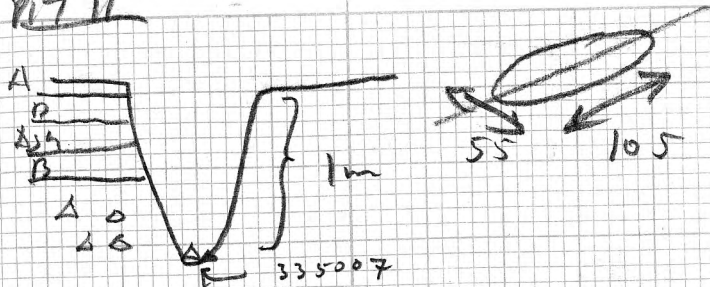


A 10 cm

A₂ ~ 18 cm

B = v minor small < angular cobbles

Pit 11



A = 6 cm

A₁ = 11 cm

A₂ = 14 cm

B₂ = 13 cm

335007: strongly broken local bio R_g feld cm v fine grained

- small angular cobble & pebbles = mod-strongly rusty orangish brown surface

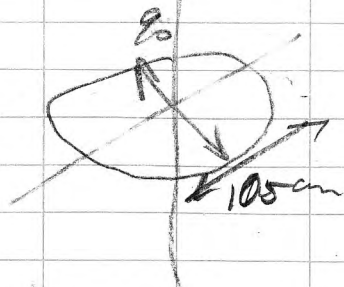
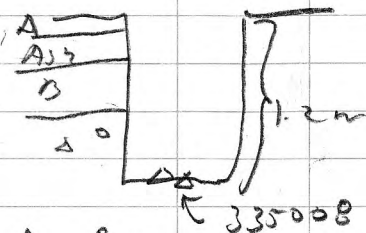
- bio 10% dk brown fresh, sub

- h₂ 5% dk sub - earthed

max 3.5 mm ← feld sub, indistinct 20%?

- fine diss & rusty py? 5%

Pit 10



A 8cm
A₃ 10cm

B 22cm

335008 - Rsp? or (silt/clay)

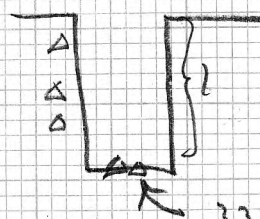
m r surface, fresh 14-m gy
- buff, spotty strong
limonite, 1-3% v fine
subbedul diss pycs r

- trace molochs

fld phenes 5% unbedul
- subbedul w-malt?

creamy - orangish

Pit 9 On River



335009

bio fld clay - Mo nzwale

- weathers small & cobble
w-m r surfaces

- m gy, fine grained

- fld phenes 5% unbedul
- subbedul w-malt? creamy - orangish
- 3-5% fine diss an-sub pycs
silty halos

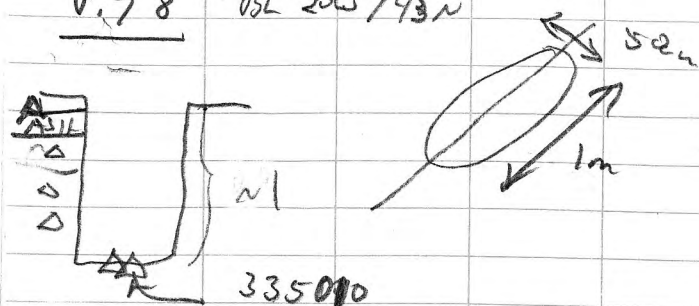
- 1% bio-phosphates? dull
silvery brown sub. books

- 9% unbedul mow 720%
mixed c fld

- trace - 1% molochs

- w-m orange - brown r
on fract limonite, Mn

P. 7 8 BL 20W / 43N



335010

A = 6cm SAMPLE 335010 QM?

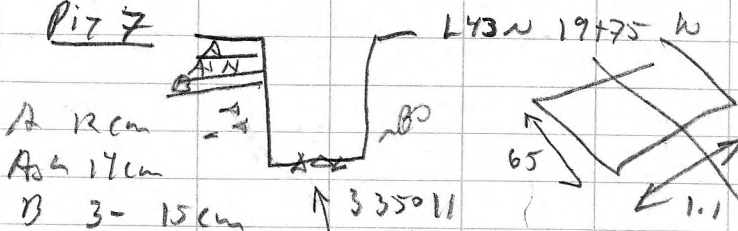
ASH = 5cm small local subcrop angular cobbles

B = w-m rusty surfaces limonite, the local w scorodite? v fine grained fresh surface difficult to obtain

1-2% bio; 10-20% an - sub feld

Qtz age 50% ; py 50% fine dis after E limonite holes

P. 7 7



L43N 19+75 W

A 12cm

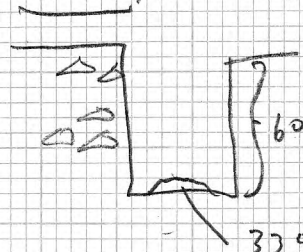
ASH 17cm

B 3-15cm 335011

SAMPLE 335011 : QM - w-m r brown small angular local subcrop, v fine

fine melonite; grained 2% bio - photo, dark embedded bio 20% creamy feld, sub-anh photo (2mm) 30% Qtz anhedra clear masses 1-trace dis py E limonite, 10-20% hb fresh embedded

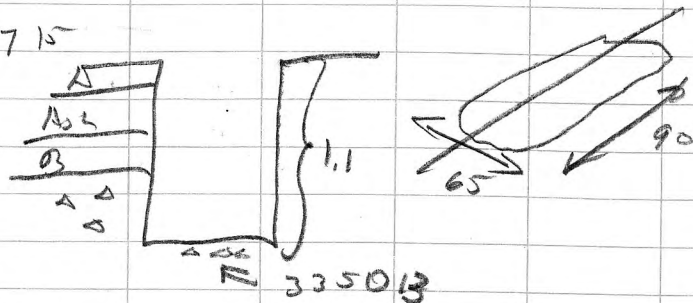
P. 7 14 - Road.



335012

SAMPLE 335012 strongly broken / fract bedrock; surfaces dk - m r brown mod Mn; Rgp? QMp? v fine grained
 - matrix 5-10% masses anhedra, hb?
 - Qtz age 1-2mm round, clear
 - no obvious feld
 - py 4% anhedra dis & masses
 - cp trace - rare anhedra dis
 - locally s-i sil? pervasive
 - local spotty limonite holes around py

P. 17 15



335013

A 8 cm

Ah 15-20 cm

B 15 cm

SAMPLE 335013 - local angular
sub crop, small cobble

pebbles, rusty orange
v fine 5-8% fine hb fresh

an-sub

-10-12% clay yte lvs 1-2 mm
-conc & 5-10% feld phenos

1-2 mm sub-an

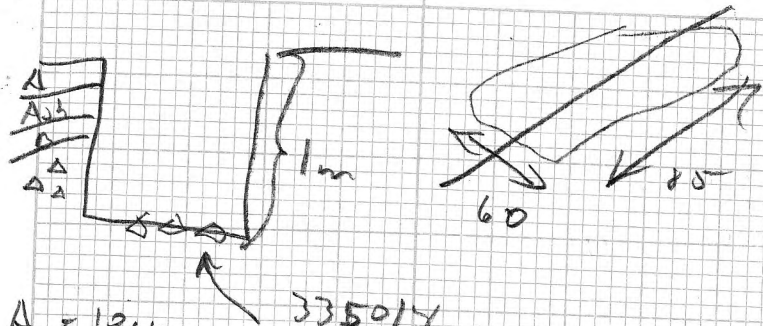
po. 2-3% dm-mass

-py trace dis an

-cp rare 1% locally

-R-oh

P. 17 16



335014

A = 10 cm

Ah = 20 cm

B = 25 cm

335014 - local angular
cobbles - gravelly, mod rusty

Rgp - mgy fresh,
2th cys clay .5-3 mm

an-sub 10-15%

- no obvious or only

v. minor 1-2% fine feld

phatic masses, an hb

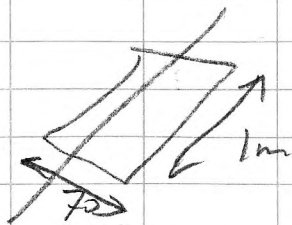
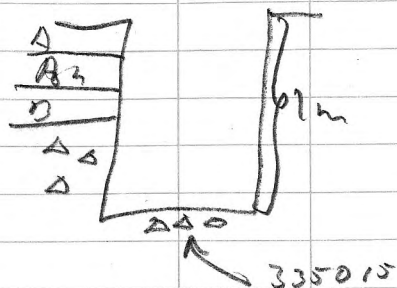
dk gn - blk, fine-v. fine

cp - trace - 1 v fine dis

py 20% v fine dis, sub-an

-local fine bract & py
concentrated

Pit 17



A 12 cm

B 17 cm

C 25 cm

SAMPLE 335015 local

angular small cobble -

gravelly, med orange rusty
brown surface

Rhyolite: m-dk qz, slight

irregular line, massive

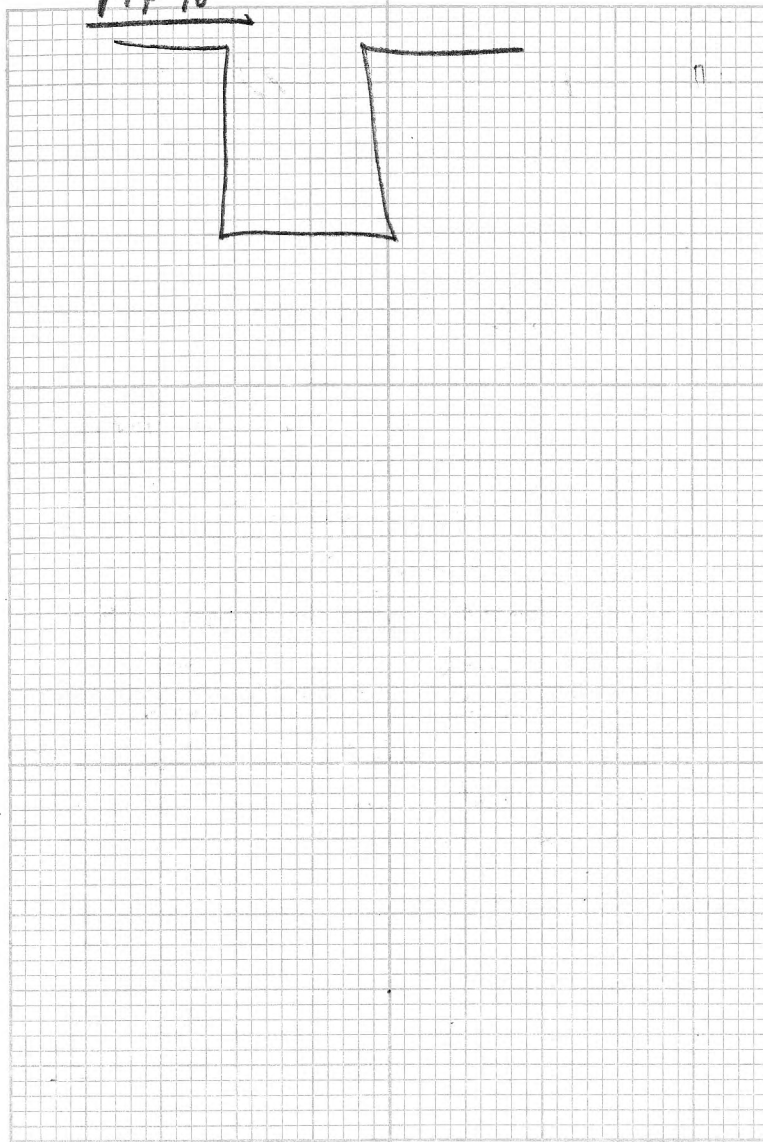
1-5% anhedral feld phos

py anhedral fine mss 1-15%

- local trace malachite on fract

& within sulfide mass, trace sp?

Pit 18



TRENCH - TR-00-1

089° (1.5m top x 40cm) to 5m deep x long
 SAMPLED in 1m COMPOSITES
 Bedrock strongly fract - broken

Rq

006 / -60° RMR strong fract
 set

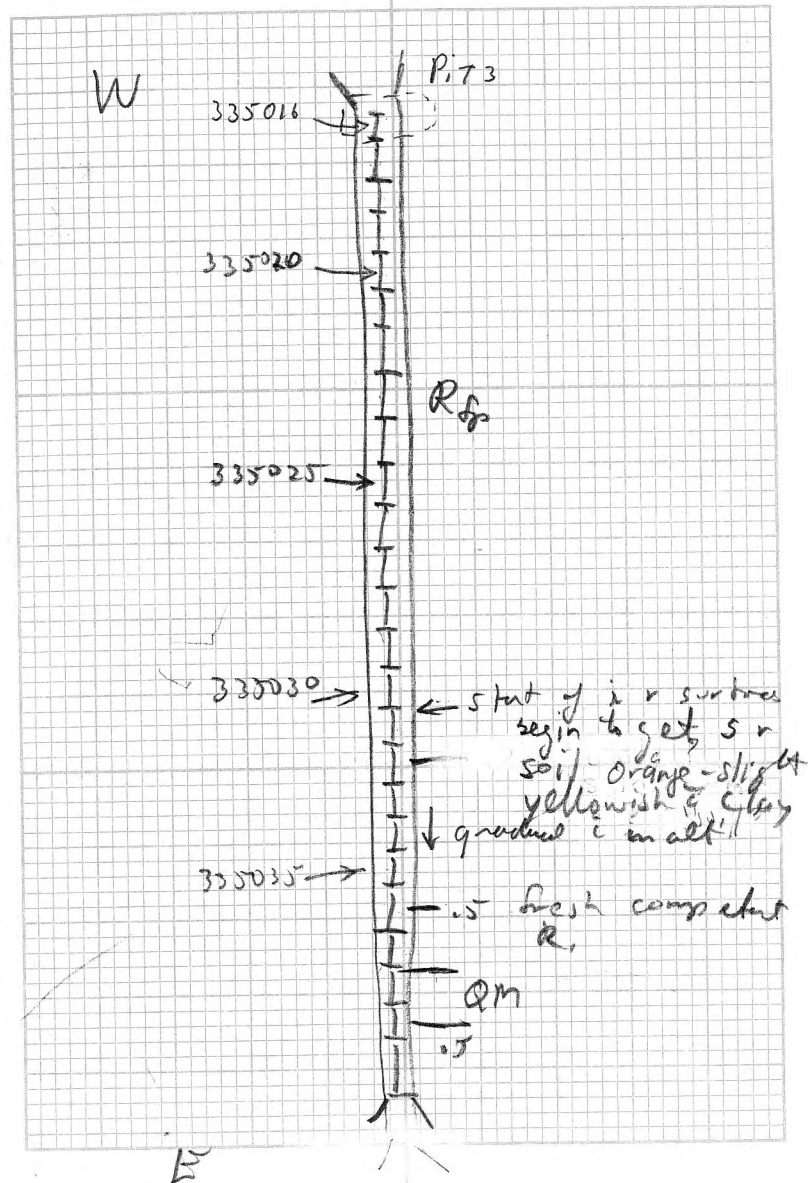
SAMPLE 335016: Rfp: Itgy - buff w r surfaces
 & fract, v. massive, v. fine dis
 py trace rusty; feld phenos
 5% fine, an - sub white
 - creamy strongly alt?
 ~ 1mm, matrix crypto massive
 - w Mn, w limonite

SAMPLE 335017: Rfp: similar to 335016
 possible w scorodite

SAMPLE 335018: Rfp: similar to 335016

SAMPLE 335019 Rfp: similar to 335016
 w/ scorodite

SAMPLE 335020 Rfp: similar to 335016
 some sections weakly granular v. fine
 (slightly less sil?), feld s. cla
 v w scorodite along fract



SAMPLE 335021: Rfp: v. fine sugary
granular, light gy - wht, weathers
m-s orange rust, w Mn
1-2% v. fine gk eyes
- feld w clc

SAMPLE 335022: Rfp varies from v massive
like 335016 to v fine sugary locally
intense black Mn on some surfaces
rare v. fine (1mm) gk strings
clean, discontinuous
feld rarely apparent s/c

SAMPLE 335023: Rfp v. fine granular
lt gy - wht, massive, 2-3%
s-i clc feld phases
surfaces w - m r limonite,
v w Mn, v w scorodite
- intensely finely fract internally

SAMPLE 335024: Rfp: similar to 335022
locally intensely? silicified?
- v w scorodite
- v. fine diss py?

SAMPLE 335025: Rfp: lt gy massive
fine s/c? feld an-sub 1-2mm
2-3%

- rare indistinct fine - v. fine
clear gk eyes

- vague fine flow texture?

- py v. fine diss trace - 1%
strongly r.

- surface w rusty brown
local s-i Mn surface

- rare sil lenses? / discontinuous
stringers 1-2mm wide

- scorodite w - rare snotty

SAMPLE 335026: Rfp similar to 335016
surface m Mn, w limonite
- feld 5% s/c - an, fresh
- nil scorodite

SAMPLE 335027: Rfp, feld more indistinct
v. fine granular variegated
- locally strongly rusty

SAMPLE 335028: Rfp
- massive similar to
335016, w r.

SAMPLE 335029: Rgb v fine granular
variety, feld 5-10
clg, spotty r diss py
s limonite on fract

SAMPLE 335030 Rgb: similar
to 335029 but c 5% clear
undissolved gte eyes; 5-8%
s r diss py

SAMPLE 335031 Rgb - v fine clg

SAMPLE 335032: Rgb - quite fresh?

possibly locally silicified
sp. v.

- v w spotty scroddite
- strong limonitic fract & surf
- 1-3% diss r. py

SAMPLE 335033 Rgb - v. fine clg

15% v fine mafics hb?
c 5-8% v. fine py
masses, trace cp, spotty
minor limonite c v. fine
fine gte & feld.

varies to distinct feld
phenos in lt gy matrix
- v w scroddite

SAMPLE 335034: intensely leached clg

Rgb similar to 335016
but soft

local s r limonite
fract, feld phenos indistinct

SAMPLE 335035: is incompetent
version of 335034

SAMPLE 335036: Rfp: w-tally m a
generally s r d Ma
surfaces; v. fine
granular, 20-30%
s r diss py

SAMPLE 335037 Rfp - w a, w
- v. w incompetent, less "clarity"
than Rfp from w end
of trench, s r surfaces

SAMPLE 335038 Rgfp - QM v. fgs
closer to v. fine intrusives
than Rhyolite
- fresh m gy weathers w r brown
5% bio m g, fresh, embedded
15-20% clear & creamy feld
sub-embedded fine-med g
5-10% gte clear, rounded
1-2 mm eyes difficult
to distinguish
1-2% diss s r py
- s orange - rusty brown limonite
on fract

varies to dark green matrix c 15% h6
& 8% v. fine diss py (m?)

SAMPLE 335039 - Rgfp 2-3% feld
5-8% v. fine gte set
in lt gy - wht cryptomelane
- similar to 335014

SAMPLE 335040: m a, Rfp (= 335038?)
fine granular texture, med
- light gy
- 1-2% diss spotty scorodite?
- surfaces s r brown
- feld phenos difficult to
distinguish
- alteration = leaching?
no real cla or sil or ser
but rock is bleached & soft

