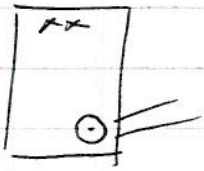
Smear Slides

D8-8D "Slickenside"

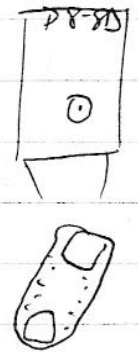
opaque - black Mn
mostly



Bubble? or inclusion

v hi birefr.

38-59 at 25x
~~ap~~ monazite?



greenish yellow in plane light

90° extinction Blk-Blk

D8-9

Blades?

yellowish brn in plane light
Replacing qtz, fspar

remnant of pyroxene

D8-9A - not much different MS

D8-7B - MS
qtz surrounded by pg.
ie pg was matrix
Long clear XIS
apatite - blade
bwnish, pleochr

v well formed
> x, plutonic,

no devile cone

D8-2B nothing could consider glass
finer grained, crappy alteration

v. D8-8D
high pleochrosism △ devitrified ~~sm~~ glass shard? maybe
- smectite

Clay aligned along shear plane

plag w/ twinning

volcanic rock fragments which have altered → laced w/ clay

D8-2B Mudstone in Nodule

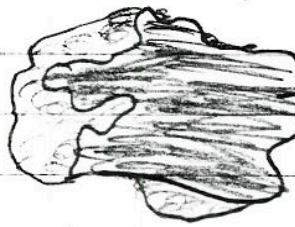
opaque Mn - black
qtz - clear

all sorts of crap highly altered but not a whole lot of brwn stuff

---

D8-7B

many grains look like this



brownish/blk opaque
reflected light
- may be Mn

fine grained gray-yellow material possibly altering from Mn - hard to tell w/ smear tho. perhaps groundmass altering

---

D8-9A Root beer brown, high colors - pyx?!. probably
also, volc glass, brown + green
green may be chlorite, but not pleochroic ~~of~~
appears isotropic

PG1 First time
Full of halite
Rinsed again

SECOND ATTEMPT ALL ULTRASOUNDED

PG2 Residue of 1 (<2 microns)
@0.07g
tall thin beaker

PG3 <2 microns
19.712 wt. of jar
big beaker

PG4 Residue of 1 (>2microns)
19.794 wt. of jar
400 ml beaker

PG5 >2 microns, but fine grained
19.678 wt of jar
large beaker

PG6 Residue of 2nd batch. Looks wet although has been in over for several days
19.725 wt of jar
400 ml beaker

Core	Date	Reading	Blank Value	Sample Wt. (mg.)		Total Carbon	Inorganic Carbon	Corrected Organic Carbon %
8-4	4/9	39.0	11.2	599		0.046		
D8-7	"	126.3	11.2	753		0.153		
D8-8P	"	63.1	11.2	280		0.185		
D8-8M	"	71.2	11.2	501		0.120		
D8-4		55.5	11.2	796		0.056		
D88M		148.1	11.2	637		0.215		
7		118.9	11.2	653		0.165		
8M		76.9	11.2	550		0.119		
4		38.8	11.2	673		0.041		
					ave			
D8-4						0.048		
D8-7						0.159		
D8-8P						0.185		
8M						0.151		

F6-87-NC Dredge D-8

Three basic crust Types:

(1) large Nucleus surrounded by Mn

(2) Mn-Nodules - Small Nucleus

(3) Crust

(4) A fourth Type is a crust that is underlain by a deposit showing a box-work structure - only one sample

Substrate Type.

(1) mudstone is dominant for all 3 Mn Types and commonly is laced w/ Mn dentrites. In other samples, mostly types 1 + 2 above, the mudstone is also laced w/ Mn veins that are more resistent than the mudstone & stand out when the sample is washed - The mudstone is highly sheared & Fractured

Type 1 + 2 Mn are commonly porous w/ large amounts of sediment + other debris (rock Frags) mixed w/ the Mn + They are gradational in ~~Type~~ Type

The Samples from each group will be described Together except for the one sampled will be described separately - Not all samples were collected from the dredge - but this sampling is representative of the majority of the dredge - everything is very friable, even when wet -