

PACIFIC
BOOK 1
WATERBROOK

FIELD BOOK

No. 301

**PELLEY
PROJECT**

P. DEAN

20 JUNE →

6 JULY

PYGD-1 → 182

- ① Pt. ...
- ② ...
- ③ ...
- ④ ...
- ⑤ ...
- ⑥ ...

— 12th MM
70:135th Peter Lewis
Stn

11:00

994-2729 ←
fore stan for
Groundhog data

Product of

Δ7 massive py + unident w silver
mineral Arseno? in qtz vein both
float on cat road

Δ8 strongly pyritic black shale
to phyllite (10-20% py + qtz
in bands following bedding.

Subotop on cat road
P46D 8R 89R

A9 pyritic volcanic float
on cat rd

→ P46D 8R - 47, 146, 148.

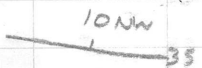
P46D 9R - 32, 132, 64


21 JUNE 1976:

Δ1 calc phyllite strongly folded

→ 320/22 abundant qtz
veining, some tuffaceous beds


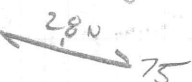
Δ2 greenish to grey phyllite
cut by numerous narrow (to 2ft)
sid. veinlets with py & cp

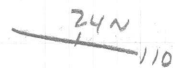
Δ3  very thin bedded,
arg ls, weakly buff weathering
Maybe →

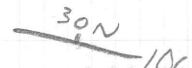
Δ4 diabase dike cutting thin
phyllites. Dike 20ft wide attitude → 46
Phyllites S₁?  crosses nose
of next ridge to w.

Δ5 thin grey phyllites

 → 120/0

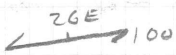
Δ6  Poor but definite
bedding based on concⁿ bands
 thin grey phyll

Δ7  bedding or S₁? phyll.
ls probably → =

Δ8 argillaceous phyll ls weathers
blue grey gd marker for bedding
attitude locally  → sm

Δ9 blk sh w ss beds
P46D-10R-BLK SH

- becomes rusty & more gritty
further down ridge

Δ10 → 120/SN 
blk sh bedding highly contorted

Δ 11 massive buff w. Lt grey ds
veined with qtz

Δ 12 $\xrightarrow{45W}$ 116 calc phyllite

Δ 13 $\xrightarrow{410W}$ 98 grey calc phyll
lotsa qtz - carb veins

Δ 14 grey limy phyll w minor ep
in qtz veins $\xrightarrow{?}$ = $\xrightarrow{?}$? 120/15E

Δ 15 massive orange-buff w very
pale grey to white ls. Weathers
into big rounded boulders

Δ 16 70 $\xrightarrow{35N}$ lte grey calc phyll

Δ 17 massive lt grey to rouge w. ls
shows traces of some def. that has
strongly effected more arg. v x
beneath

$\xrightarrow{34N}$ 56 good - applies
to sidehill in
general

Δ 18 $\xrightarrow{2}$ 132/26 N BLK sh rusty.
not limy Sev sch. direction

Δ 19 $\xrightarrow{20W}$ 170 gd
 $\xrightarrow{12N}$ 78 gd

$\xrightarrow{65S}$ 46
STRONG
JOINTING
 \xrightarrow{weak} 138

BLK graph pyritic sh
weathers rusty.
PY6D-16 R

Does not resemble at all limy grey
phyllite across Lk - could underly it
with no problem, or Lk could be
in Fault zone

22 June 1976:

106E-9

$\Delta 1$ $\xrightarrow{12NE}$ 160 sheared & foliated volc
bx

$\Delta 2$ massive brownish black weathering
volcanic - makes up tip of 7001 PK

- volcanics vary rapidly over short
distances but generally are breccias
with occasional clasts to 3" in
size - mostly chips of volc. but
occ. large rounded boulders of
white ss (2 FT). Rare narrow
laminar tuff bands weather brown

PY6D-17R - PY-MAG-CHL RK FROM
FLOAT at $\Delta 1$ (Fe form?)
32 48 380

$\Delta 3$ PY6D-18R - Pyritic volc 24, 50, 146

PY6D-19R - mag + ba? from
zone overlying pyritic volc

21, 42, 104

~5% pyrite in volc producing major
gossan. Zone ~ 30 FT thick &
capped by ~5 FT of black weathering
magnetite bearing volc. Very
heavy - may contain ba.

$\Delta 4$ $\xrightarrow{24S}$ 76 volc sch

$\Delta 5$ volcanic breccia with
abund. py + minor sp, ga,
flourite and carbonates. Talus only.

PY6D-20RM 23, 1780, 16,000

Photo CX-22 of talus + gossan.

$\Delta 6$ small blob of grey ct rusty

$\Delta 7$ $\xrightarrow{30S}$ 85 strongly pyritic
zone similar to $\Delta 5$ capped by
volc bx. No sulphides other than py

$\Delta 8$ large gossan caused by py in
grey sil volc

$\Delta 9$ $\xrightarrow{10SE}$ 90
approx shistose volc. bx

Photo CY-2 (no 1) - gossan in volc.
Looking toward PK 7001 from S

$\Delta 10$ massive pyg dk gn volc flow
or possibly feeder dike

Δ 11 $\xrightarrow[1]{155}$ 136 pale gm grey volc
sch

Δ 12 top of end of ridge - non-descript
greyish greenish brownish schistose
rock probably tuff or tuffaceous
shale. Occ bands of more
recognizably volcanic material -

Δ 13 $\xrightarrow[1]{155}$ 60 volc sch

Δ 14 massive 200 FT wide blk
Fg Ferric volc? Ridge to this
point all alternating nondescript
massive to schistose volc
flows & tuffs.

Δ 15 $\xrightarrow[~]{10E}$ 160 volc sch

Δ 16 $\xrightarrow[1]{30SE}$ 54 volc sch

Δ 17 $\xrightarrow[1]{15SE}$ 62 volc sch - pale
greyish green, nondescript
looking, probably

originally tuff.

UPPER UNIT - seen only as abundant
tuff. Float varies from black dense
rk like Δ 14 to greenish or white,
equigranular, almost sugary rk
Could be volc flow or possibly
greywacke.

Δ 18 $\xrightarrow[1]{355}$ 108 Same rock

Δ 19 buff w gw Substep

Δ 20 $\xrightarrow[25SW]{140}$ muvqtz fsp sch
origin unknown - prob
volc

Δ 21 Blk graph shale. no good
place to take attitude.
PY6D-21R Weathers silvery
25, 28, 52
grey
General attitude of bedding
on end of hill $\xrightarrow[1]{20SW}$ 30
(eye ball estimate)

Δ 22

32SW
100

crude bedding in
massive, gw? or tuff
breaks into slabs along
bedding (could be ↙)

23 JUNE: RIDGE E. of Seagull Lks

Δ1 sheared acid pyroclastics pale
whitish to buff weathering
Foliation irregular

Δ2 $\xrightarrow[26 SW]{134}$ same acid pyroclastic
slightly limy (brownish clots
of Ferrous dm or siderite)

Δ3 more massive acid volc -
more coarsely pyroclastic & less
foliated

Δ4 very massive pale green-grey
non pyroclastic acid volc
like top of ridge yesterday
("upper unit"). Blocky weathering
and resistant lichen covered
& with occ weak rusty patches.
Very weak sporadic ep mineralization

Δ5 $\xrightarrow[cleavage]{20 N}$ $\xrightarrow{30}$ Poor black tuffaceous
shale rusty weathering

P46D-22R

64, 52, 210

- mainly black shales to next
station + ~20% acid tuff beds,
all more or less rusty weathering

Δ6 $\xrightarrow[60 S]{95}$ acid foliated volc tuff
& flows?

Δ7 $\xrightarrow[50 S]{86}$ foliated acid volc

Δ8 $\xrightarrow[50 S]{78}$ acid volc varies
from massive blocky to foliated
& schistose between last & here

Δ9 massive acid volcanic with
interbedded dark grey chert
Massive & blocky weathering

Δ10 gossan in volcanic soils
P46D-23L → 27L at ~150 FT
Spacing across gossan from
S → N. No visible sulphides
but rock is very weathered &
leached.

Δ 11 $\xrightarrow[100]{405}$ pyroclastic w some
hem? weathers black metallic
- some pale gm greasy looking
serpentine along past few 100 ft

Δ 12 pyroclastic w brownish
carbonate clots - may be
useful as marker horizon if
all parts of it seen along
ridge are same horizon.

Δ 13 Small gossan in volc.
Soils PY6D-28L → 30L
~ 100 FT apart S → N

Δ 14 PY6D-31 → 34L Soils
from gossans along ridge in
brn weathering blocky pale
grey brn fg acid volc. Underlies
pyroclastic if $\checkmark = \checkmark$
Sampled siliceous pyritic phase
causing gossan

Δ 15 $\xrightarrow[90]{205}$ Volc sch w. some
poor serpentine

Δ 16 Soil line across gossan
PY6D-35L → 43L
massive blocky fg volcanic
below gossan

24 June 1946: N5 7001 PK 10SF-9

Δ 1 $\xrightarrow{55S} 90$ foliated tuff
Soils P46D-44L & 45L in
gossan. developed in grey pyritic
siliceous volc at contact with
blk shale

Δ 2 $\xrightarrow{42} 98$ foliated tuff
large dike of Fg diabase between
here & last. see photo

Δ 3 $\xrightarrow{80SE} 48$ foliated buff weathering
acid volc. Could be N limb
of fold w axis plunging SE
See photo

Δ 4 $\xrightarrow{60S} 50$ foliated band within
predominantly massive cherty, acid
volcanics

Δ 5 $\xrightarrow{60E} 182$ greenish grey
Calcareous phyllite weathers to
form silvery scree slopes. Looks
like Kechika Fm

Δ 6 $\xrightarrow{46E} 188$ grey limy phyllite.
occ. resistant nearly massive green
volc interbedded w phyllites

Δ 7 $\xrightarrow{20E} 230$ brownish blk silty
argillite not rusty
poor

Δ 8 $\xrightarrow{50E} 44$ greenish volc phyllite

Δ 9 $\xrightarrow{52E} 58$ black & greenish
shales interbedded with occasional
lense of grey ls a few feet thick

Photos CX 4 & 5

P46D-46R - black sooty shale

Δ 10 $\xrightarrow{42} 108$ - shale band in rusty
weathering at underlying upper black shale
beds



Δ 11 $\frac{70S}{75}$ resistant weathering
foliated acid pyroclastic

PY6D-47L & 48L - soils in
small gossans in cherty tuff
unit

Δ 12 grey-brn tuff? weathers into
piles of small angular chips. Occ
small bright rust zones in
siliceous sections. Some more massive
green-grey acid volc w perite
euhedra

PY6D-49R - Blk cherty argillite
(lower "blksh" unit)

Δ 13 massive yellowy-rust weathering
silicious grey cherty volc bx

Δ 14 90 $\frac{56S}{90}$ good brown tuff underlying
last

Δ 15 $\frac{42N}{100}$ some brown tuff
on north limb of fold. Core
of fold made up of tuffs
similar to Δ 14. Some are very
finely bedded

PY6D-50R rusty tuff

Photo CX-6 Well bedded
slightly limy Mississippian
tuffs

Δ 16 $\frac{40N}{100}$ whitish buff weathering
chert

Δ 17 $\frac{20N}{80}$ grey massive ls
occ ct bands no fossils
 $\frac{35S}{182}$ at ridge line

Δ 18 $\frac{80S}{106}$ Kechika Fm
limy phyllites w volc
lenses asat 5 → 8
diabase like 100 FT thick
cuts stop

Δ 19 $\xrightarrow{455}$ 162
poor

Kechika drk
grey limy phyllites

25 June

Josson hopping

Δ 20 black shale then gritty buff
weathering SS, then incident
gr cty rock

Sequence along route:

blk sh / gritty SS / orange
dolomitic poorly
sorted SS

Δ 21 (samples)
+ geochems

all scree
ø felsenmeer

Δ 22 $\xrightarrow{50M}$ 106

rib of another resistant
poorly sorted SS

27 JUNE 1976 - east of Cloutier Cr

Δ1 grey-brn siltstone in beds ~ 1 FT
thick $\frac{22N}{80}$

Δ2 $\frac{30N}{80}$ buff to rusty weathering
greyish white cg gw

Δ3 $\frac{42N}{1}$ 68 tan to grey chert in beds
2-4" thick

Δ3 ~~1~~ grey irregularly bedded
ct

Δ4 sheared greyish brn silty
massive ls

alternating grey sil shales,
cts, brn-grey siltstones &
minor fg gw along ridge - all
interbedded & unmappable at
1/2 mile scale

Δ5 strongly sheared green
gw of volcanic? origin
 $\leftarrow \frac{116}{\rightarrow}$

Δ6 fg massive & blocky weathering greenish
to brownish volcanic, possibly dike or
flow.

PY6D-36L \rightarrow 102L Soil samples
in bright orange gossan developed on
pyritic argillites

These volcanic rocks could be in
Sylvester but probably are same
as Miss Vole across valley.

Δ7 $\frac{98}{1}$ slaty cleavage in
blk non pyritic shales

Δ8 sheared grey-brown silty ls
as at Δ4

Δ9 $\frac{23E}{1}$ 64 massive grey Dew ls

Δ10 $\frac{94}{1}$ argillite slightly
rusty weathering some thicker
silty beds

Δ11 ———+———— 116 massive tan ct

D 12 ———^{10N}———+———— 125 lt grey-tan
weathering pale grey limestone

Δ13 ———+———— 126 drk grey shale

28 JUNE: N of McNeil Lk 105G

$\Delta 1$ $\frac{44^S}{1}$ 125 tan ct irreg. bedded
weathers into small angular
chips. Narrow interbeds of maroon
shale

$\Delta 2$ $\frac{46^S}{1}$ 120 black ct argillite
with occasional large "floating"
clasts of brown weathering
limestone. Thin bed of gw
with shale frags near arg-ct
contact

$\Delta 3$ calcite cemented volcanic
spatter breccia with clasts
from $\frac{1}{4}$ " to 1" in length
Rock is $\sim 50\%$ calcite.

$\Delta 4$ $\frac{79^S}{1}$ 84 about $\frac{1}{2}$ blk to
drk brn grey shale + $\frac{1}{2}$ gw
with shale fragments up to
2-4" long, also minor siltstone
with shale partings

2 thin beds of volcanics as
marked on photo

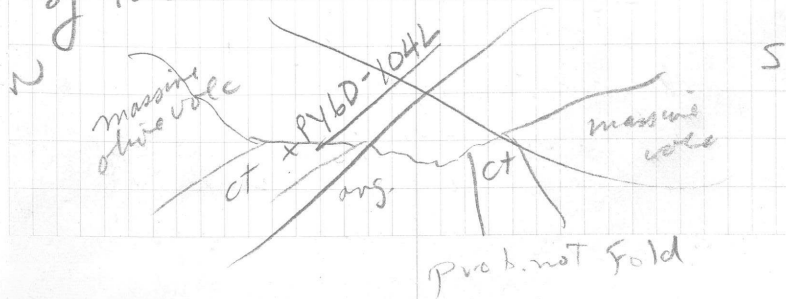
$\Delta 5$ $\frac{42^S}{1}$ 104 carbonate cemented
m-cg buff w gw

- massive pale olive gn fg volc, blocky
weathering, then -

$\Delta 6$ $\frac{65^N}{1}$ 125 strongly sheared brn
weathering volcanic

$\Delta 7$ narrow bed of grey ct, in part red
weathering (sample PY6D-103L) followed
by massive pale olive gn volc
making up Peak

$\Delta 8$ drk grey slate $\frac{30^N}{1}$ 92 and red w.
greenish pyritic ct outline core
of fold:



Δ9 massive olive w. volcanic some brown weathering and weakly sheared in part amygdaloidal.

Δ10 red to yellow weathering greenish ct + minor similar looking siliceous volcanics. Beds of black shale border ct on north side

Py6D - 105L & 106L

Best exposed part of these pyritic beds outcrop in cirque wall to NE of ridge & are inaccessible because of snow.

Δ11 BLK - BRN CTY ARG

CG^N - 80

Δ12 red weathering grey pyritic ct

Samples Py6D 107 → 110 at Δ12

Samples 111 → 116 downslope to west (plotted on photo)

112R - very pyritic arg ct.

2 July 1976: prosp gossan on 108F-9

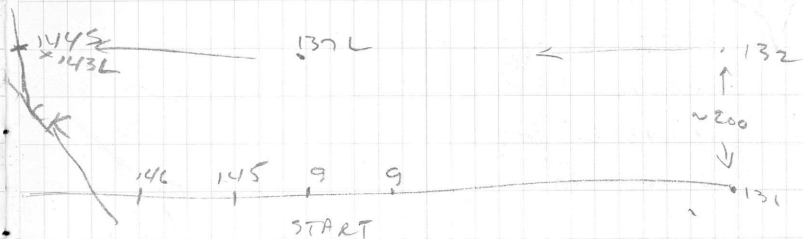
- gossans arise in black shale of unknown, prob Miss age underlying a massive volcanic bed ~ 300 FT thick. This is capped in turn by interbedded tuffaceous shales and breccias composed of shale + volc fragments. Above gossans volcanic & overlying sed & brecc are nearly flat lying. (Δ1)

Δ2 Black graphitic shale strongly creolated and faulted to the extent that no meaningful attitudes can be taken. About 5% white qtz in irregular rusty veins. PMBD-122R graphitic shale

507L lines on gossan

1295 - 75 FT past 128L,
lower line
at 132 L - kedika limy phyllite sheet

134 SP - just N of creek, 200 FT above 128L



137L - above starting point

138L - gossan

147R - gossan cemented shale

4 July 1976: 1056-5 A12326-336

D1 buff to grey w. arg ls. Arg material as shaley partings separating nodular lenses of ls - produces distinctive weathering surface. Overlies buff to greenish, massive, carbonate cemented gw & shales, probably partly tuffaceous.

225
|
84

Overlain by dark massive argillite interbedded with mafic volcanics

Δ2 limy phyllites of Kechika Fm - must be in fault contact with last

→ 20°/210 ← 105
100 FT beyond 110

Occasional volcanics interbedded w limy phyllites along ridge, also 3 or 4 narrow (10-20 FT) diabase dikes.

Δ3 105 110 drk grey slightly rusty weathering arg ct - looks like Miss. - another fault contact

Δ4 445 110 grey pyritic ct band within cherty shales. Most of ridge from 4 to 5 is tan weathering ct. Occ drk shale bands

Δ5 405 124 approx silvery grey limy phyllite (Kechika)

Δ6 505 100 tan ct with interbedded slightly rusty w. shale

Δ7 465 106 pale grey very rusty weathering sericitic slate to phyllite PY6D-1485P - from rusty seep below this outcrop
pH 4.0

PY6D-1495P (7.5)

Pos. explanation - Zn rich
shales - lotsa pysohz
doesn't form - Zn leaches
into alkaline ch (drains
Kechika limy phyll) - Hz
deposits.

1595 - good silt
100 FT below junction of
cks rx still zap, but
weakly

1675G - strongly rusty
small stream (2 FT x 6") pH 4.0

1685G - asperlost pH 5.0

1695P - 300 FT past lost
pH 7.5

1705 - main stream
1000 FT below where
acid seeps join

Δ11 rusty w. azurite, shale, &
light grey mg acid volcanic?
previous scree slope with Kechika
phyllite marked on photo

Δ12 pyritic cts & shales. stream
in avalanche gully rusty w pH of 4.0
PY6D-72SP ⁵⁴⁵ ← 132

PY6D-73R rusty shale

5 July: 1056-5

A 12189-119

A 12371-73

Δ1 $\frac{345}{78}$ tan ct

Photos cx-8, 9, 10, 11 - panorama
of 1st half of geol traverse view
to north

Py6D-174L - rusty soil from
pyritic shale scree

Δ2 $\frac{90}{\text{scree}}$ tan arg ct
med to lite grey limy
phyllite (K) on knoll between

Δ3 $\frac{20E}{4}$ pale grey, tan w. ct
with interbedded grey to drk grey
shale (100 FT sh, 100 FT ct ~)

Δ4 Kechika phyllites cap hill -
either fault bounded, tight anticline
dipping steeply west, or whole pile
is overturned

Δ5 massive blocky weathering
grey, slightly pyritic ct? or
qtzite - possibly over very
siliceous volcanic. Followed by
more recognizable acid volc to top
of knoll

Δ6 - $\frac{405}{46}$ massive blocks w qtzite
or very sil. volc.

Δ7 gossan in pyritic, red weathering
grey ct - usual black sh is present.

Py6D 176 → 180 - soils across gossan

Py6D 175R - grey, red w. py ct from
same place as 176L (to compare
values in soils & in fresh rocks)

Δ8 $\frac{365}{130}$ tan ct - blk shale fm

Δ9 Kechika phyllites again - contact
must be overturned - does not
look faulted (but could be)
diabase dikes & some andesitic
volcanics along ridge within K

Δ 10. dark purple-green amygd
volcanics similar to yesterday
could be part of Kechika - don't
resemble Miss. volcanics. Small
stock of diabase (see photo) could
be volcanic neck.

6 July: Tour w Simpson

PY6D-1815 - silt from
NAM ck right below
- showings pH 7.0

PY6D-182R - ~~amphibolite~~
from S end of S. Seagull Lk
- geochem for Cu/Pb/Zn

PACIFIC
WATERPROOF
BOOK 2

FIELD BOOK

No. 301

PELLEY

PROJECT

P. DEAN

7 JULY →

Product of

DOMINION BLUEPRINT & REPROGRAPHICS LTD.
1533 WEST PENDER ST., VANCOUVER, B.C. CANADA V6G 2T1

7 July ridge E of 7001

Δ1 $\frac{30N}{1}$ 96 interbedded dark grey shale + tan w. siltstone in part limy.

Δ2 $\frac{10E}{1}$ 180 black ctg argillite
These rx up to now look like typical Miss ct-sh unit, but with addition of thick beds of light to dark grey, micritic ls and minor siltstone.

Δ3 $\frac{5NE}{1}$ 125 resistant unit of pale grey-green, buff weathering siltsh w occ limy beds a few inches thick

Δ4 $\frac{25}{1}$ 186 black sil argillite

Δ5 massive tan to pale grey green sheared ctg volcanic - could be "Tanct" con. f. w. ctg argillite

Δ6 massive med gr brn weathering fg volcanics moderately sheared but competent.

Δ7 $\frac{18N}{1}$ 88 lite grey massive ls w sandy interbeds. Overlies 100 ft of very fg. Qtz sandstone w carb cement Buff to orange weathering. Prob Dev.

Δ8 $\frac{30W}{1}$ 115 Brk sh and tan siltsh prob Miss

Δ9 klippe of Kechika limy phyll + minor volc

Δ10 TAN TO PALEGREY CT
 $\frac{10NE}{1}$ 128

- See lotsa notes on airphoto overlay

- ct-arg-volc units consistently overly thick carbonate units - apparently conformably - except in bottom of arcue with gossans
- carbonate could be within Miss sequence or could be dev carbonate which elsewhere has been thrust over younger units

8 July - plotting + trip
to Faro

9 July - staking ANISE

10 July - finishing ANISE
+
staking BNOB

prop 18002n gossam NW of
7001 (see samples)
- pyritic ct with sporadic
ga + occ hz stain

PY6D-184 - Bag destroyed

1855 - rusty } nearby

1865 } 7001
edge

'see map'

11 July

- office

13 July

14 July

} TOUR of MM +
regional with
HBOG + BWANA

15 July gossan hopping
105G-5

P₁ - 188 → 193

P₂ 194 → 197

3 198

4 199 → 205

5 206, 207

6 208, 209

7 210

8 211

9 212, 213

10 214, 215

11 216 → 225

25 JULY:

PY6D - 227 R } all gossan from
228 R } Askin Gp showing
229 R } check for lead

PY6D - 230 R - CPA #1 gossan
gossanous sample

28 July: 7001

PY6H-112 - below
sed ba talus on 7001.

232 R - mystery mineral
in pyritic stuff

237 R - pyritic sed ba

29 July - canyon

233 R - black graphitic
shale from near 1000 Pb
sample

234 R - next to 1000 Pb sample
strongly pyritic black ctg
argillite.

- 7 Aug
- ~~check out~~
 - ~~bits to MM~~
 - ~~check boundary of Jimm~~
 - ~~H2 Sump Creek~~
 - ~~gossans on 1056~~
 - ~~899 Cu on mm~~

PY6D-240 → 249 seeps
on ~~so~~ south side of ch
at 899 Cu site.

250L black rusty argillite
consp in on 1056-5 prob not
miss. (prob. kedika)

252R blk rusty arg -
S side of ch

253L rusty soil over
brecciated grey ct. } N
side

253R - rock - bx rusty grey ct

254L } north side - main
↓ } gossan.
257R }

- gossans are rusty brecciated
incompetent blk argillite on
south sided ch, and brecciated
lim. cemented grey ct on north
side

gossan opposite py bx canyon -
- massive blocks of lim. cemented
volc chips in middle of
typical cherty pyritic Miss
gossan.

Samples PY6D-258R

259R

260L

261L

284L

↓
289L

290R - grey pyritic ct

291 }
292 } Goscar ^{NYMA}
St Cyr

300₁ - DRILL -
259 - } 28° 113 slope correction

↓
167 } 40° 130 slope corr.

↓
110 } 60° 200 clear

↓
74 } 27° 112 sc

↓
0₁ } 40° 130 sc

Second run - (down hill)

25₃
↑ } dolomite contact
0₂ } 34° 120 sc

↓ } 36° 124 sc

300₂
↓ } 36° 124 sc.
10 = 0₁



LINE 1

300, PULL

↓ 8₁
↓ 10
300₂

line azimuth
changes →

↓ 0₂

250 FT
horizontal →

↓ 253 - D_S

LINE 2

↑ 300₁ 32° 118

↑ 260 32° 118

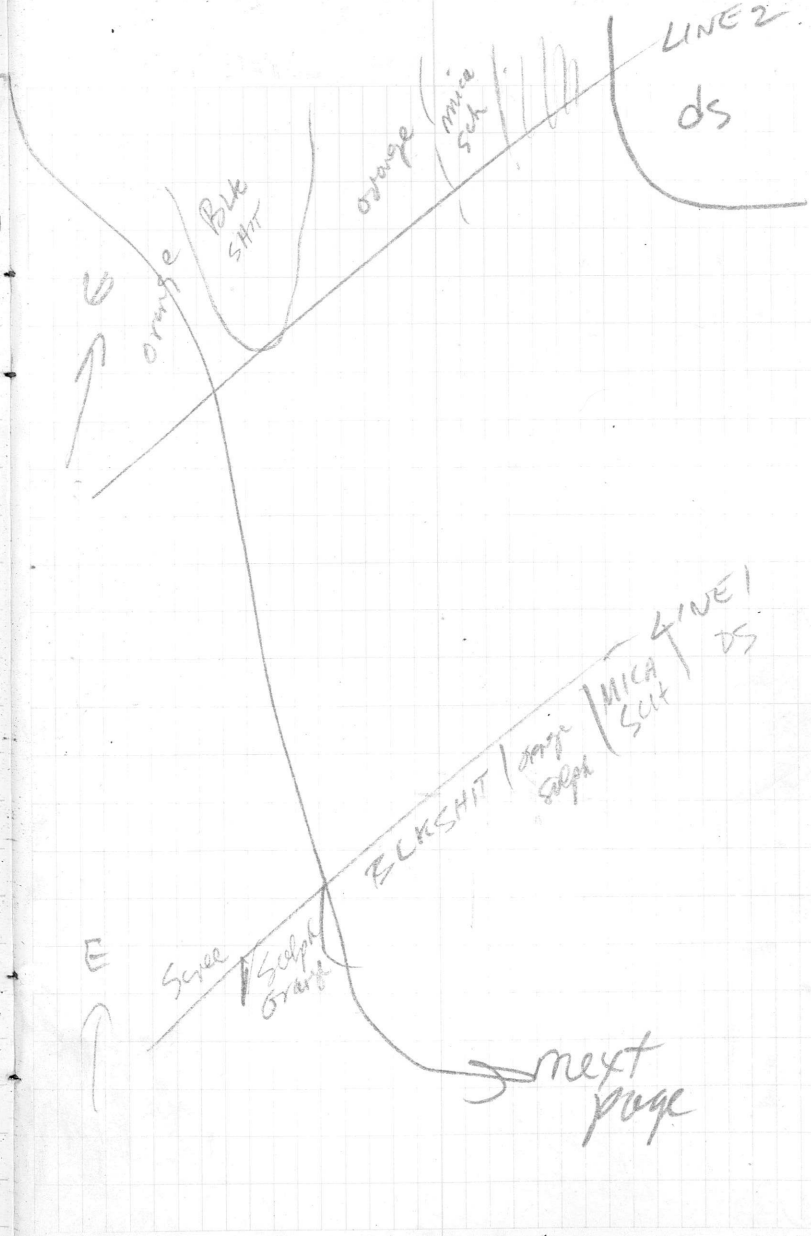
↑ 190 40° 130

↑ 155 40° 130

↑ 125 40° 130

↑ 36 60° 200

0₁



line 2 continued dn slope

0
↓ 20° 107

33

↓

56 78 235

↓

series

90 32° 117

↓

26° 112

140

↓

34° 120

200

↓

25° 110

248

↓ 300

30° 115

300₂ O₃

↓

11° 102

58

↓

16° 104

~~88~~

↓

42° 135

172

↓

5° 100.5

300

12 Aug 1976

MM

300 → 259 - scree

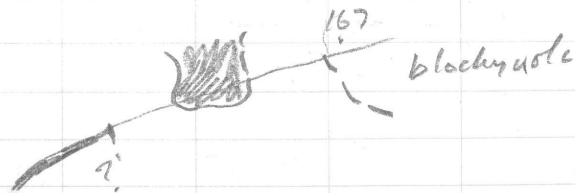
259 → 235 - massive sulphide

235 → 215 - med grnish qtzite
5% dis py+po

167 - F_1 axis \approx 150/50 W

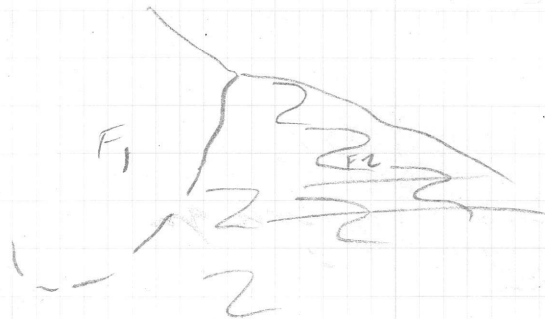
contact of drk gn
blocky vol. with green
py-po qtzite. Ax plane overturned to
North

~ 180 - 10 FT massive
sulphide - F_1 fold
closure -

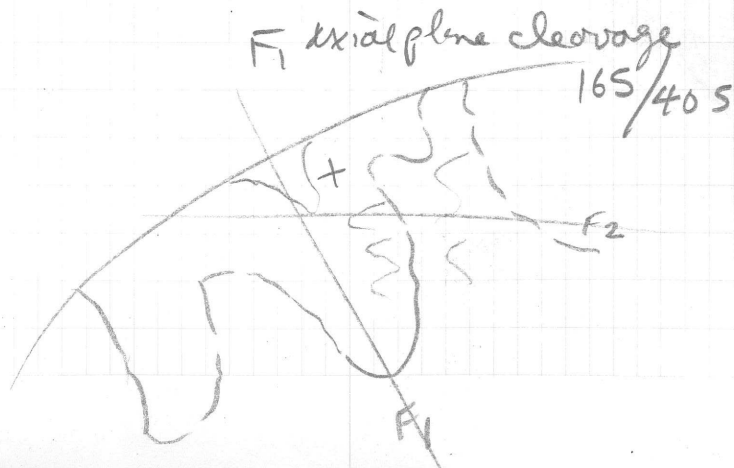


projecting to \approx 175 - F_2 -
axis at 165 / dip 0
ax plane \approx flat

view to W -



view to east at \approx 180



167 → 300₂ - massive block
green volc

300₂ → 145 - scree

150 (pri^y from west) F₂ axis 165/5N
fold axis N flat

F₀ N 150/70N

sulphide band projects to ~165-
20 FT in air

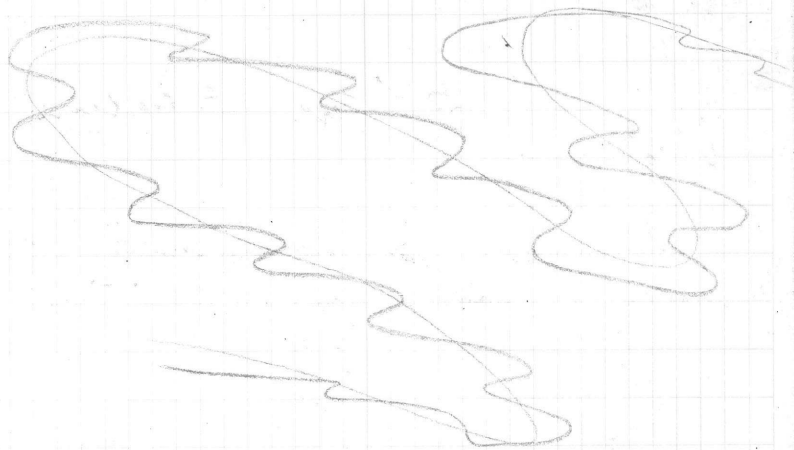
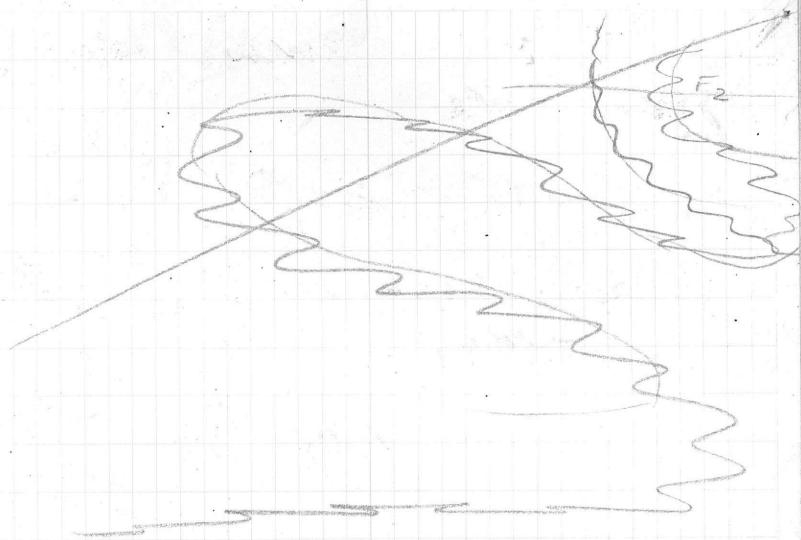
F₂ 155/5W at sulphide
band

lines up perfectly with
massive volc, gr at contact
at start of line 2

25 FT dolomite contact

120 → 0 → 25 dark comp.

biotite meta volc could = green
massive blocky volc but prob. different



0 - F₂ 155/5
at pl clearance - 190/209
good

LINE 2

80 - contact of py ct
with bio meta volc
F₂ 155/0
axis ~ flat

155 190/44E Foliation
lineation at 120°
(crenation of micaceous parting
on foliation
middle of py ct)

190 - 260 Same unit - tight
folding could be many

repetitions of bedding.
Black shale band may
be useful marker at
~ 200

60 black shale band.
F₂ 175/0
axial plane ~ 10° E

60 → 90 - series

90 - start of massive
blocky volc

200 - end of massive blocky -
contact with py ct - ~
155/30 SW.

30 next drill site

L 1 50°

L 2 60°

MM 76-02 -

124 → 127 - 50% sulphides in
fracture? dx zone

404 → 410 - ba + 5% py

410 → 410.5 - mas sul

410.5 → 411.5 - ba

411.5 → 430 - mas Sulph.

430 → 433 - ba

433 → 439 - mas Sulph

439 → 595 - variable banded disc

595 → 616 - sulphides

qtz chl sch w 5% py/po
along fol. (= F₀?)

L2

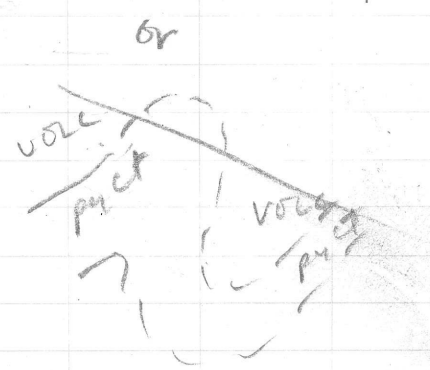
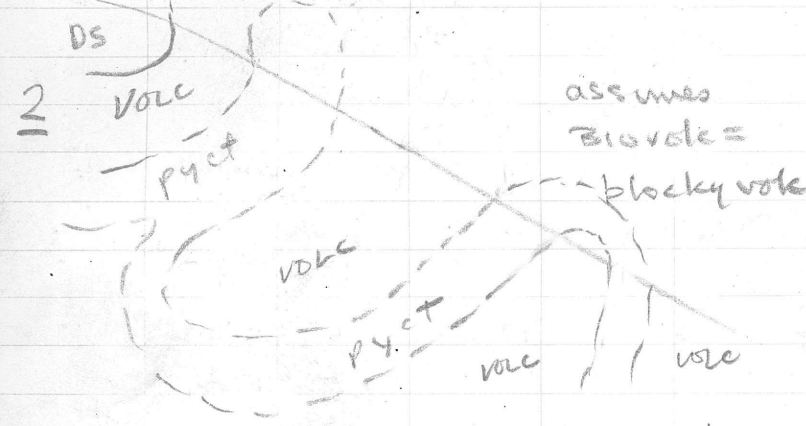
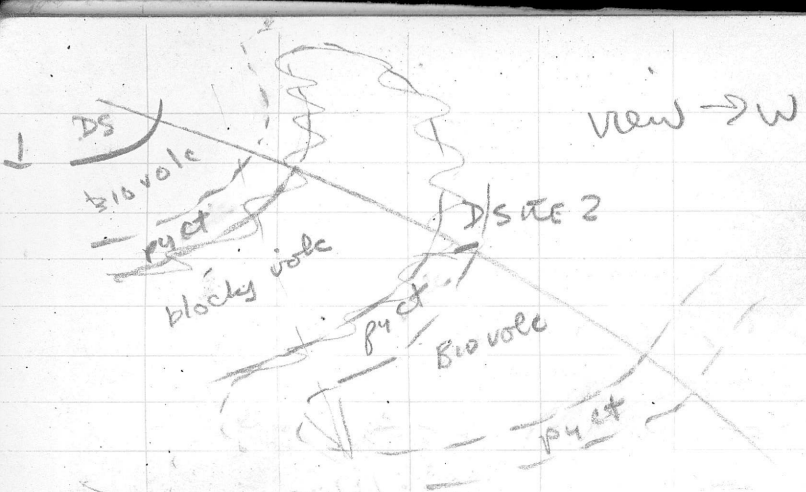
DRILLSITE 3 → 175 - bio volc
repeated

175 → 300 Screen

~ 400 - pyct w ba

view → W From Drill site 3 -





16 Aug

MM 76-4

- 12°
 0 → 12 O.B.
 12 FT → 37 ser - qtz ct
 37 → 42 - mass py + 10% qtz
 est ~ 5% Pb + Zn
 42 → 45 - BA + py
 45 → 47 - pyritic ct
 47 → 51 - mass py + qtz
 ~ 5% Pb + Zn
 51 → 56 - py ct, occ bits
 of sph in bands.

MM 76-3

BA
 406 → 410 → 440 sulph

17 Aug 1976

76 MM-4-

137 - contact
between blocky volc &
PY CT

201 still in B10 SCA
(lower limb of F_1)

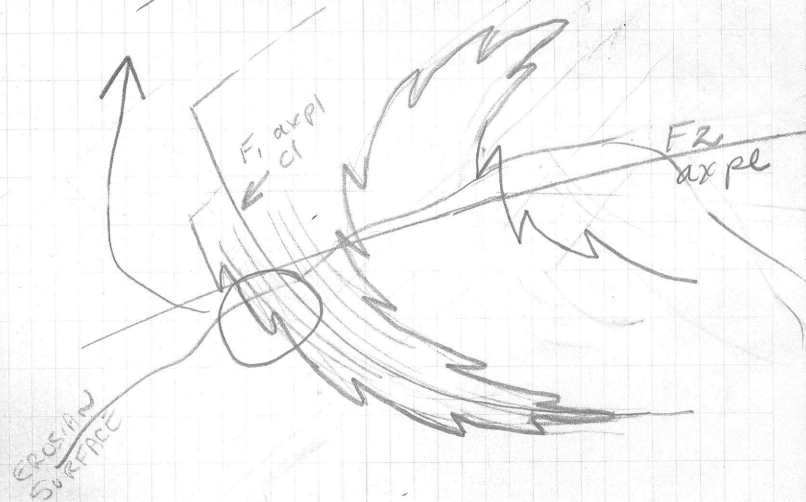
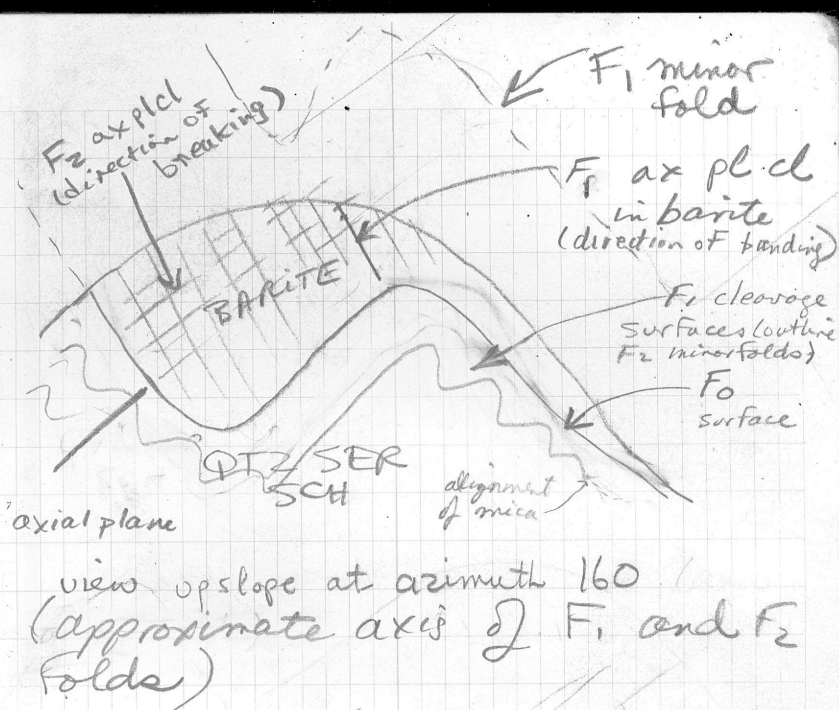
18 Aug

201 → 387 still in
SOS

Ba show on level 3:

F_1 ax pl cl: 160/50 W

F_2 ax pl cl: 160/55 E



29 August

Hole MM76-05 - Az 165

DIP $\sim 60^\circ$

Hole MM76-06 - Az ~~140~~
~~170~~

DIP ~ 60

Hole MM76-04 - Az 30 dip 12
UPPER SHOWING $F_0/F_1 - 155/30$ SW

F_2 axpl - $70/10$ N

F_3 - jointing direction -

$70^\circ \times 80$ E -

\perp to F_2

DRILLSITE #3 - 50 FT SW
on profile at 70°

F_3 - jointing - $70^\circ/90$

F_0/F_1 - $175/15$ S Sulphide band

F_2 - $70/10$ N

- nearly massive pyrite in blk. arg.

- PYCT/META VOLC contact
another 40 feet along 70°
profile & at same attitude
as F_0/F_1

BARRE SHOWING:

F_2 - $160/50$ cleavage &
fold axis

F_1 - $160/55$ mineral
banding

F_1/F_2 intersection \sim horizontal

DRILL SITE #2

F_0/F_1 80/20 N
(mineral banding)

Minor
folds

~~F_2 axpl 90/10 N
Pook
(can't be F_2)~~

MIDDLE BA - MASSULPH SHOWING

F_2 ? strong cleavage
150/45 NE

F_1/F_0 190/35 W
mineral banding

→ also axpl of minor folds
in schist wall rx

TRAIL BARITE SHOWING

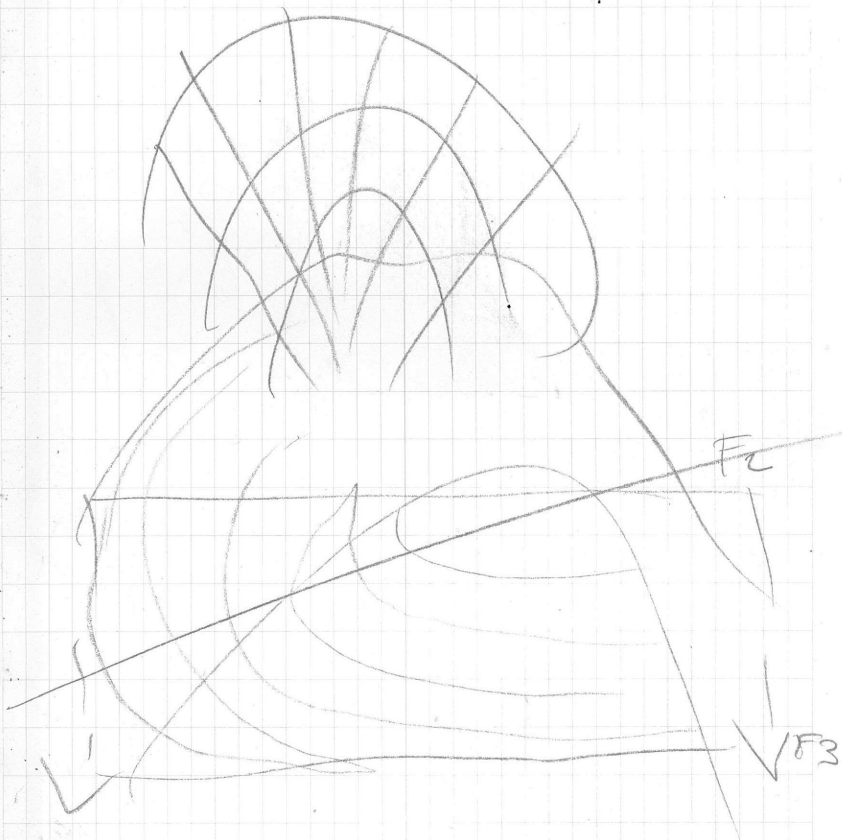
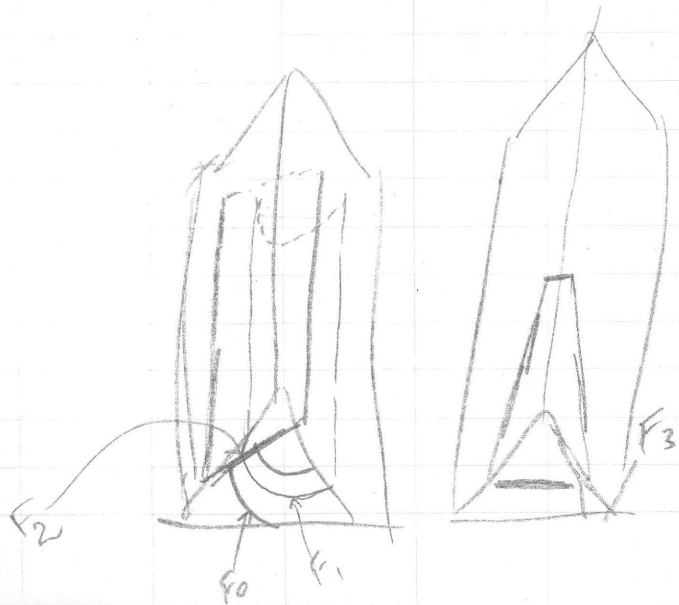
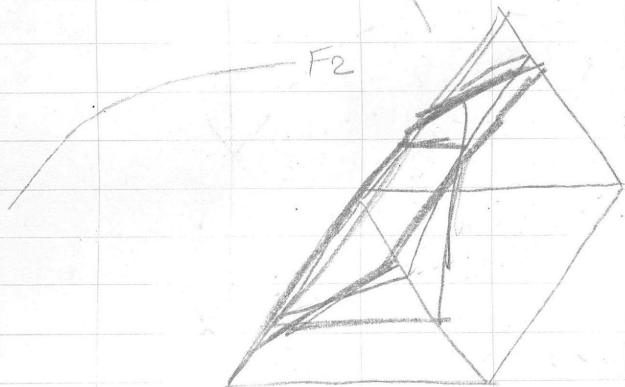
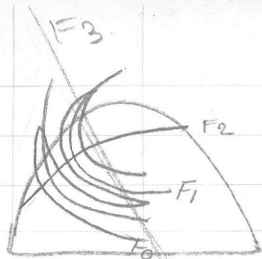
- strong cleavage at 140/60 N

F_1/F_0 - 195/40 W

DDH 76MM-2 - A_2 45° x 10° dip

DDH 76MM-3 - A_2 60° x 45° dip

76MM 1 - A_2 70° x 45° DIP



BARITE SAMPLES

PY6D-400 Knob Claims

401 2mi N of 7001

402 10SG5 Barite
Comp"

403 MM property

404 - CHZERNOUGH

405 - Crest iron Fm
Sample - 40% ct, 60%
Hem

406 - Shell Ck Fe Fm
Magnetite

407 - BRUNSWICK #6
COMPOSITE!

→ @ ct mag-che Fe Fm
+

SID - MAG Fe Fm
+

hematite Fe Fm

SY6D-408 - Yeti iron formation

SY6D 409 - Oz barite

SY6D - 410 - Bond Ck hem jasp

SY6D 411 - Bear Ck Fe Fm

SY6D - 412 - Bond Ck barite

SY6D - 413 - CHL - GARN Fe Fm?
Talc Pit - Goldstream Riv

SY6D - 414 - GREMLIN - Massive
Sulphide

- SY6D - 415 - Bilbo Barite

18 MFHH-CH2OR AT-ANISE PD-MMM

19 HG,AT -makeup flycamp

20 TOUR OF MM w. Glen & Dave AFHH to PIG
MF to PIG? food to PIG

21

22

23

24

25

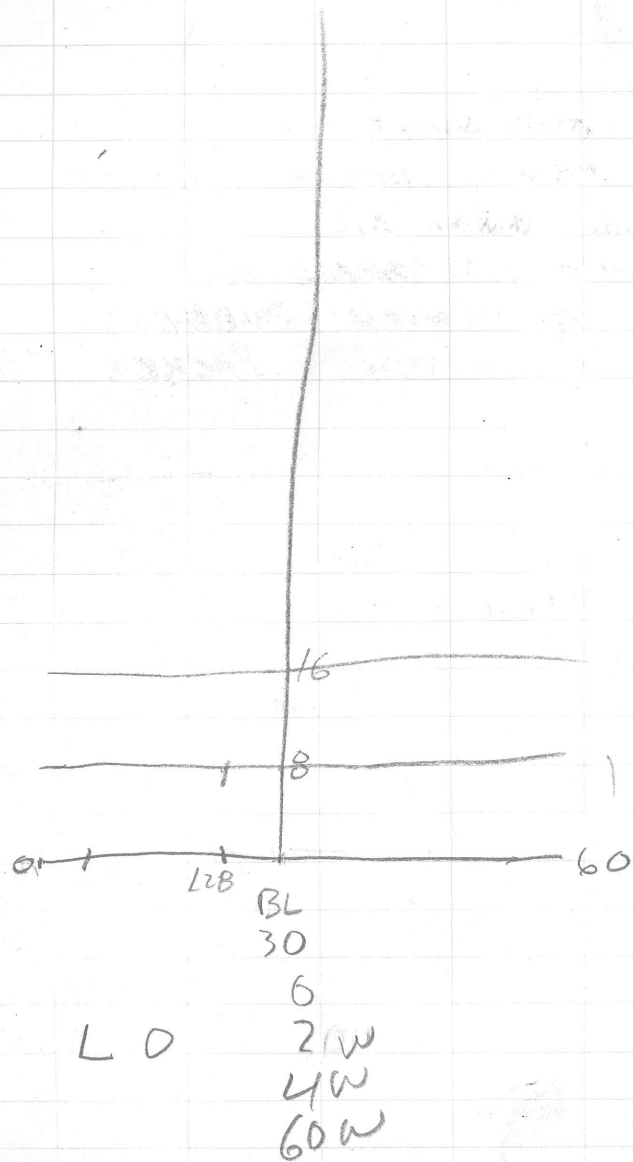
26

27

28

29

30



- 1 - BW SHOE
- 4 - BQU OVERSHOT RUBBERS
- 5 GAL - GEAR OIL
- 5 GAL - HYDRAULIC OIL
- 4 - BQU LATCH RUBBERS
- 4 - BQU OVERSHOT PACKER RUBBERS

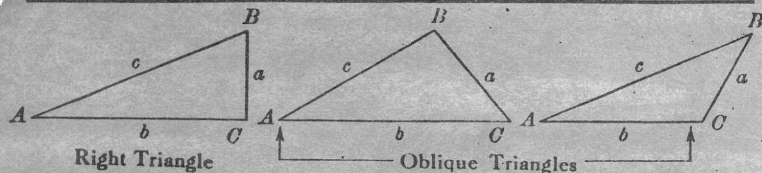
-
- after shave
 - hair oil
 - mouthwash
- } George

2 BQ CORE TUBES
20 BQ RODS

2 CC, OR 3

acid

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

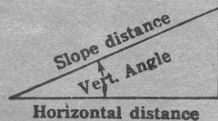
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance - 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.