

020514

August 10, 1970

Air photo

~~A 130~~

A

130

Locations 1-9

Samples 1-7

105-E/15

Aug. 10, 1990

Five Fingers

Soil Samples

N along road. #66 150 - 220  
pacs from camp

KWS-1

KWS-2

KWS-3

## Location 1

- outcrop

- pit of crabs

- volcanic

- etgy brn

with to brn.

vfg  
elongated modules of  
green colored glass  
fctd  
massive

sample

FF - 1

## Location 2

- outcrop - 75 on 255°

- volcanic

- Hg<sub>2</sub> brn with ls brn

v.f. gr. as small phenocrysts

qtz filled elongated amygdaloids.  
up to 5 mm.

iron oxide withing.

Location 3

outcrop - 475 on 266°

- volcanic

lky - brn  
wt to red-brn

phenocrysts of biotite ap to

5 mm in v of qz

groundmass

also ~~qz~~? phenocrysts

feldspar

sample

FF-2

## Location 4

outcrop

- peak @ 80' or 30'

- volcanic

lt grey brn withers to brn-red

upgs groundmass

phenocrysts of biotite ~~etc.~~

SKR sample 2

Location 5

outcrop 220 @ ~~245°~~  
285°

note

SKR

in soil

along

rejoin

Location 6

outcrop

- 355 or 285°

- volcanic

FF. # 3

## Location 7

- outcrop

- 280 on 330°

150/22° E

### 3' tuffaceous sediment

- wh. buff rather wh  
clayey (kaolin?)

sf. grain of qtz in  
kaolin matrix

carbonaceous plant frag  
dict. thru out. (in part)

greenish in part (chlorite?)

thk bdd.

partings of thin bdd  
brown-black coal

+ shaly coal coaly shale  
up to 1 cm thk

FF-4

Overlain by

futaceous sediment

15' bluish blue, rather to wh. buff.

chips

Chips up to  $\frac{1}{2}$ "  
of lt wh. green clay, matrix  
grain of qtz + carb.  
material

matrix of clay, qtz  
material

thk. bed

1 string of coal

6" thk + about 6' long.

- fissile, charon folds

coal sample

FF-6

FF-5

grade up to

the bold  
tuff ~~sed~~

SKR FF-5

Location 8

- outcrop

250' on road

- volcanic

med. green brn

wt. to brn black.

f. grained

phenocrysts of biotite

Location 9

outcrop 450-520  
~~not~~ on road.

volcanic  
lks blue with black-brown  
- in part to red-brown  
mud.

fgs of  
phenocrysts of biotite

RF-7-

August 11, 1970

Air photo

13.0

Locations 10 - 22

Samples 8 - 26

Location 10

outcrop

100 paces on  $265^{\circ}$

- volcanic

SKR. sample 2.

# Location 11

Outcrop

- 1000 paces 265°

- volcanic

lt grey horn with some black

inf phenocrysts up to 2-3 mm  
of feldspar

iron oxide with  
v. lg. qtz.

sample

FF-8

Location 12.

outcrop

1350 or 265°

volcanic

ltgy wehns to red brn

phenocrysts up to 1 cm  
of biotite blde + feldspar  
in fgy. matrix.

F.F-9

## Location 13

outcrop

= 1700 on 265°

- volcanic

med fin with sta. brn

v fgr.

amygdalus filled with f.g.

qtz + med crystalline  
calcite

amygdalus up to 1/2"

black subhedral phenocrysts

FF-10

Location 14

outcrop, 1800 paces on 265°

- conglomerate

- subrounded pebbles +  
cobble of fgs.  
volcanic material.

few lks, chert, clt  
- lt lsg, qtz pebbles  $< \frac{1}{2}$ "

$< 30\%$   
matrix of sh, silt  
greywacke ss  
✓ coarse gr. of qtz  
in ~~ss~~ med green colored  
matrix of volcanic derived  
material ~~feldspar~~,  
~~feldspar~~ clayey

lt-med green brn with ls brn  
massive - thick bedded

FF-11

- 50 pore 5 along road -

conglomerate 160/20° E  
= approx.

- pebbles + cobbles  
of fgs. volcanics  
+ lt qtz of  
+ coarse gneiss  
few chky argillite

matrix:

- sand. lt qtz  
med coarse qtz sand qtz  
grains of subrounded subangular  
few v. fine chky argillite grains  
+ grains of fgs. volcanics  
mostly qtz grains

Location 15

- rubble

- 2100 on 265°

- sandstone

Medd carbon to org-tan.  
to med - cal gr.

sub-angular - angular grain of  
qtz + feldspar

fine cherty argillite

fine gr. quartz grain

in clayey matrix

thin

med-phy silt

- quite poor boulder.

## Location 16

- slide material  
on river

sandstone

lt gy with to lt gy

med - cng gr.

subangular : grain of wh feldspar

lt gy fgr. glite

some fgr cream colored

clayey grain

few grain of qtz + chl

Carbonaceous plant frag.

med bed

Conglomerate

blocks very gutted

- some 80% ss matrix

some SKR FF-11

FF ~~to~~ 13

Location 17

#8  
outcrop

+ old abandoned shaft

180 paces or 163'

- old shaft

- looks covered.

~~volcanic~~ > sandst

lt gr. brn. looks to lt br.  
fg. iron oxide specks.

calc. calcareous crystals  
spherical wh. phenocrysts

looks hyaline.

now is h. green.

calcite veins.

qz to obs. etc.

some chert gr.

chlorite crstls.

FF - 14

in dump below mine

~~volcanic~~ sandstone  
med brn  
fg red-ord  
amber crystals of calc. or calc.  
calcite crystals  
gypsum? kide?  
angular grain of material  
volcanic in origin?

cut line run NS  
from shaft.

FF-15

## Location 18

- outcrop 130 or N line from  
shalt.

- tuff sandstone

light green with a thin green  
med. gr.

fg.

calc.

angular grains of feldspar

caliche + qtz

iron oxid.

clays

N. Massone

~~no bedding~~

some thin bedded

approx 80/80° S

ap

FF-16

# Location 19

- slide & slump  
environment

- black of rock in clay  
gooey clay matrix

sandstone

lt grey with to lt grey  
med-crse gr.

irregular grain

grains of qtz, lt grey qtz

lt wh. feldspar & lt grey chd.

clayey matrix

some fgr volcanic grain

carb. plant frag throughout  
med. thk bed

FF-172

also

fattyaceous sediment  
wh. enters to wh.  
- interbedded wh. clays  
& sandy beds.  $\frac{1}{2}$ " thick.  
Koolenized

fgr. qtz grains  
some fine feldspar grains

- no coal seen  
in slump material

FF-176

## Location 20

- outcrop

= 140 p on 90'

O30/20°E

3' conglomerate

pebbles of fgs volcanic  
material chly argillite  
of lt fgs. quartz & wh of  
volcanic pebbles up to 2"

75%

matrix of lt.

ltgy. crs gr. sandstone  
material

angular grain of fgs  
of quartz

some chly argillite & volcanic  
clayey grain

clayey binding material  
few pore colored grains

rubby the bed.

FF - 18

overlain by

sandstone

ltgy w/ths ltgy

crs gr. angular grains

med sst

grains of ltgy qtz

of feldspar

clayey grain some

some ltgy chtz argillite

grains

w/ clayey matrix

few qtz pebbles

med. thickness

slight lamination

more more

overlain by  
20' ? cover interval.

#8 - conglomerate. 060/45'E

25' cobble of volcanic  
material. fgr.  
tan. porphyritic volc.  
+ lt green vesicular  
few ab. qtz pebbles

matrix = 30%  
med - coarse gr. sand size material  
angular grains of  
lt colored fgr. volcanic (clayey)  
+ qtz + some chky argillite  
clayey, brecciated material.

FF-20

65' cover

5' - conglomerate

- pebbles  $< \frac{1}{2}$ "

- gritty

large volcanic pebbles (pyroclastic  
fr. breccia calc.)

- small volcanic pebbles,  $\frac{1}{3}$   
+ chert, argillite + g

matrix of  
fine sand size material  
qtz, feldspar  
clayey gran.  
clay binding material  
lms.

FF-21

15' cover

19' conglomerate 170/15°E

lt grey. with some org.

- cobbles & pebbles  
of volcanic material  
& has some qtz pebbles.

matrix

- micaceous - quartz  
angular grains of qtz  
for volcanic argillite.  
clayey lim.

thk bed.

- ~~matrix~~ proportional  
amts of matrix & cobbles  
vary.

int bed with quartz ss up to 1' thk.

FF-22

15' cover

conglomerate

outcrops - slumped.

- pebbles of lt. gray

qtz + quartz  
elongated chert argillite  
pebbles

matrix > 70%

- coarse sand size mat.

grains of qtz, feldspar  
clayey vol. volcanic mat  
+ argillite

clayey binding material  
thin.

thick bed

FF-23

## Location 21.

- outcrop.

- 165' strat. cover interval  
if it overlies  
but quite poor rock.

volcanic

dkgy-black with purple black  
u. gy.

elongated amygdals up to  
filled with calcite.

bol. latyrroidal gty  
in some amygdals.

massive  
feld.

FF-24

Directly overlain by

- lt colored volcanic
- tan brn wicks to tan brn
- o fgs
- vesicular

Also

85/20'S

siltstone

- 1' lt gray with wh. <sup>folded</sup> small folds?
- v thin bed
- o fgs org
- plant frag molds

FF-25

## Location 22.

Sandstone -

100 paces

- below Loc. 7

- lty. - wh. with lty.  
crdg.

angular grains of  $qtz$   
& wh. feldspar

some chky argillite grains  
wh. clayey matrix

FF - 26

August 12, 1970

Five Fingers

Location ~~24~~ -

23-30

Samples 27-53

# Location 23

outcrop

volcanic  
or intrusive

red green with red brown  
fg  
very few phenocrysts.

- A

Fault  $65^{\circ}/67^{\circ}W$

FF-27

material in slide

- coal

- chunk 2" thick  
6" long

- black laminated  
shale, brecciated, crumbly

FF-28

tuft

lt grey - with wh  
well indurated

qtzitic

few carb. plant frag.

also

tuftaceous sandst

- lt blue grey with lggy  
grain of qtz, feldspar  
+ cherty argillite  
well indurated

FF-29

B. Like rock?

<sup>P</sup>  
Like with red ben  
fgr. g/k  
Even texture

- numerous slickenside  
jts

- cont'd to section:

~~060/85°~~

105/85° S

FF - 33

- sedimentary

- impossible to climb

measured section

25/24° E

- lutaceous sediment

med. lt green with lt red brn.

well indurated

volcanic frag. & clay

ply bed

grad. li.

tuft sandst

lt grey with lt brngy

angular grains (crs. med. gr.)

of ambr. feldspars? &

volcanic clayey

argillaceous

FF-34

Also full section -

med gy with 6. lty - red  
fg - silts grains  
of feldspar & qtz  
clayey  
& argillaceous  
well indurated  
fcd & ftd.

Also

- thin stringer  
up to 2"  
of coaly shale
- ply cont. fossiliferous
- sand grain



F-F-35

section

20' tuffaceous ~~siltstone~~ claystone  
medgy green with medgy  
silty clayey  
siltst? silty  
laminar of carb mat

massive, feld

FF-36

2' grades upward to

dk claystone  
dk green with lign  
silty  
well indurated  
jointed

FF-37

grades upward to

46' laminated ss / Hstone

- lt gy & dk gy siltst  
- lt gy silt clay, siltst  
with v thin 1/4 mm laminae  
of carb arg mat.  
massive

- no partings

- FF-38

3" corals like

ply consolidated

crumbly.

- siltst concretions  
nodules FF-38A

claystone

9 - lt-med. gn. w/this ta.  
massive well indurated  
sandy grain of fts  
feldspar floating  
fcts

FF-39

- grades upto

- in Abdd

71. carb. shale & greywacke

= carb. shale & logstone

- black with shg - red  
(in part)

- carbonaceous, sandy

med. grains of angular qtz & feldspar  
the bed. massive

- beds up to 6" thick

FF - 40

greywacke

- shg - wh - with wh. red  
(in part)

- med grain & friable

angular grains of qtz feldspar  
& volcanic mat.

inf clay, matrix  
beds up to 6" thick

FF - 41

# Location 24

outcrops

sandstone

graywacke

med. thin v. thin med. thin gr.

crs. gr. sh. sld

grains of gr. volcanic mat

feldspar, qtz &

few argillite grains

clay matrix

calc. mtd.

med. - crs. gr. sh. sld

sh. volcanic frag.

lith. graywacke

lith. graywacke

sandstone sh. rich in feldspar

+ volcanic debris rock fragments

+ feldspar

greenish or reddish wacke

FF-30

## Location 25

- outcrops
- ridge at 500. pos. on 182° line.

45 - conglomerate or conglomerate

green-brn. with red-brn.

- large rounded & angular blocks of volcanic up to 2' perphyritic of gr. phenocrysts up to 5 cm of feld. plagi. + tourmaline? med green.

matrix of sly. calc.

green brn

med gr - crn gr size  
clasts of feldspars & volcanic  
matrix clayey calcareous  
massive

FF 37

Fault or Dike

25°/75° E

- slickensides

- 10' wide at bottom  
+ seems to narrow.

- ~~lt green~~

- volcanic? or igneous

- lt green with to red brn  
small indurated  
with phenocrysts of  
up to  
iron oxide coating  
v. calcareous.

FF-32

Location 26

beside Loc 23

Section 175/24°E

tuffaceous sediment  
20' - light blue to light buff  
sandy - med. coarse gr. size  
no regular grain of feldspar  
& qtz floating in clayey  
matrix  
abundant chips of pale wh. green  
clayey mat  
+ carb plant frag  
massive, ph. bed  
argillite grain

FF - 42

2 145/30° E

1/5" bed of  
~~grey~~ tuffaceous sediments

- red org. mthg.

- gr. med. coarse gr.

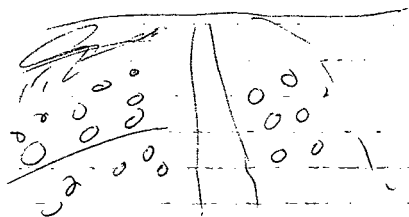
grains of green volcanic  
material in iron oxide

rich clay matrix

v. sly. contd.

subangular grain

matrix > 60%



2' - Sandstone  
lgy with lgy.  
crack  
subangular grain of f<sup>5</sup>  
feldspar  
some lgy argillite grain  
w/ clay, matrix  
st. lms.  
r. friable in part  
med. thk bed.

FF-43

2' - buff. claystone  
lgy with w. red  
in part.  
well indurated  
few floating sandgrain  
few beds of  
shaly coal, shale  
- lgy thk bed.  
shale beds interlaminated  
with lgy siltst.

FF-44

4' sandy claystone

lt gy buff with some  
~~crs grains of~~  
med crs grains of angular  
qtz & feldspar floating in  
wt clay matrix  
massive - thick bedded  
mod indurated

FF-45

grades to  
buff sediment  
12' medgy blue with to dk med gy  
angular grains of  
qtz & feldspar in  
clayey matrix  
some fgy material

FF-46

varies to  
SKR 42  
SKR 45

## Location 27

- 500 paces or 325'

- ~~sterile~~ rubble

- looks like shumped outcrop

- prob. close to outcrop

- tuff or volcanic

purple br. matrix to br.  
crystals with halysite  
zeolite? fillings

large calcite crystals up to 5 mm

frag. Chl - looks

like clasts.

feldspar crystals

FF = 47

Location 28

mineshaft

- coal sample

- mineshaft caved in

c/21 m post

- 11 V X

FR-48

Location 29.

- outcrop

- above FF mine

25/11°E

- sandstone

3' Hesperia with to 11' brn  
med gr. subangular  
med sds  
qtz & feldspar  
mass ch

clay matrix sh calc.  
med bed  
sh indurated

FF-49

4' grades to  
sandstone  
lt med gr with to red brn  
med gr.  
fine ch  
SKR except more ch &  
argillitic gr  
massive

sandstone

- lt gy blue with sm
- med gr. med std - well sh
- subequal grains

$2\frac{1}{2}$  ft feldspar  
min ch

clayey matrix  
laminated  
well med bedd  
FF - 50

2) sandstone

lt gy with to lt gy  
& org. ten in part

med - coarse gr.

and med. ply. std.

angular grain & feldspar

$\frac{2}{3}$  clayey grain

fine ch gr.

clayey matrix

ply. cont. friable

- med. thk bedd

FF - 51

overlain by

8' cover

- sandst

9' SKR FF-51

- some cross bedding

& beds with

small pebbles of

qtz & volcanic material

rubble

- below outcrop

- buffaceous sediment

clast of wh feldspar  
up to 1 cm  
in a matrix of  
tan-red. silty material  
iron oxide  
clayey

FF-52

2/50

rubble

- south on ridge

sandstone

ltgy within to ltgy  
med-crse gr med silt.  
angular-subangular grains  
of wh feldspar + f5  
argillite gr.  
clayey matrix sl. brown  
muc. muc.  
well preserved

~~Location 3-14~~

conglomerate

= pebbles of wh. + clear qtz  
chloz agtite  
+ lt colored. of gr.  
clayey volcanics

matrix of  
sand size material  
grains of qtz, feldspar  
clay  
tot clay  
lms clayey binding material  
mica/musc

Aug 11

- 268° for  $2\frac{1}{4}$  mi

- ( $\frac{3}{4}$  Loc 7)

2080 (cut line.)

2200 (river)

163° for 180  
(shaft & outcrop)

40° for 250

350° for 200 paces

RP 1174 G

- 59 paces on N line from shaft.

425 paces on N line

- + 55 paces East

- claim post + rock cairn

- from post 200 paces east

+ 65 paces south.

N 50 paces  
east 350-400

70° - road

## Location 30

outcrop.

- crack.

- tuffaceous sandstone  
- med green with to gr brn  
crs to med angular  
grain of qtz  
f grains feldspar & fgr  
gr volcanic material  
clayey

fragments of carb. mat.

fctd; massive

FF-53

August 13, 1970

Five Fingers

Location 31-41

Samples 54-73

## Location 31

outcrop

- 160 or 270' from road

volcanic

conglomerate

med green with green & red  
in part.

cobbles & pebbles of m.  
volcanic mat predominantly  
med dk gr. f. gr. volcanic mat.  
some gts

matrix

- coarse angular grains of  
qtz + wk feldspar

+ clasts of green volcanic mat  
+ green clayey matrix binder's  
material

massive, no bedding

fold

FF-54

# Location 32

- outcrop -

- 50 paces or 335°

- sandstone

ltgg within tan-brn

f. gr. med. sld.

subangular

qtz, feldspar

grain of qtz, feldspar

f. gr. siliceous cement

sl. calc.

~~no feld.~~

highly feld.

no ~~good~~ bedding indicated

sl. lim.

vein of iron oxide material

172 paces SKR

- highly feld.

red iron oxide

FF - 55

Location 33

outcrop

330 on 335°

- sandstone  
mottled gr. & purple.  
interstratified red brn.

see gr.

med-crse gr.

angular-subangular green

of qtz. feldspar

dash of gr. purple of gr.

volcanic material

feld.

sl. calc.

some pebbles of volcanic mat.

looks porous faulted  
ie) qtz veins.

FF-56

# Location 34

outcrop

160 paces or 270°  
(riverbank)

down section

60'

sandy claystone

conc. buff with red iron oxide  
specks within to tan buff

- gran. f. grain of qtz & conc. feldspar  
floating in matrix of submic.  
clayey material

sl. calc.

massive, feld.

No evident bedding

FF - 257

grades down to

- sandstone

- lt gr with lt gr bn

med. ore gr

angular grain of wt feldspar

+ fgs of grain  
feld

FF-58

grades down to

- SKR

- very clayey

- wt (Kashin)

120 ft total

occurs horizontal dip

prob tilted

150/45° NE

slipshod

looks deformed

# Location 35

~ outcrop 155/22°W

50 paces or 180' down River

- some slumped

conglomerate

pebbles & cobbles of green  
to ps. fgr. porphyritic volcanic  
material also coarse gr.

stg. with lg.

ph. std grain of fgr  
feldspar & volcanic material  
in int. clays - calc  
matrix calc emb.

FF-59

Location 36

- outcrop

180 paces on

(170 paces squared off part)

(clear part)

claystone  
dk gy. inter-dk gy  
f. s. lgy. s. chly  
f. s. & veins  
calc veins

FF-60

- s clay  
med gy. br  
coaly without  
some carb material  
int bdd. coaly stringer  
up to 1" thick

\* chly claystone

6" coal  
clayey layers  
~~up to 6"~~  
coal up to 6" thick  
veins in between  
FF-61

sandstone

8' top  
10" med gr. f. calc  
med sh.

also clay layers

FF-62

6" in bed

coal & clay

coal layers up to 1" thick

5'

sandstone

- for within thin arg.

5' f. med sh.

grain of f. 2' f. calc

clay matrix

massive

f. sh.

FF-63

see over  
test

chert breccia.  
or tuff?

Spink with h. brown points.  
angular coarse gr. sand  
chips of tan clayey sandstone  
feldspar matrix  
white coarse gr. clasts of calc.  
sand.

matrix of Spg, tan  
fine clayey sandstone.  
N. W. sandstone.  
small calc veins.

4' in Abdd  
sandstone, clay & coal  
~~coal layers up to~~

coal & clay, coal  
seams up to 6" thick.

- looks defamed.
- directly overlain by  
overburden.

underlain by  
this section  
bottom = top

sandstone  
lt grey with orig. tan  
f. gr. - grain of  $\frac{1}{3}$   
feldspar siltstone  
clayey binder matrix  
fctd. beds  
look deformed

no apparent bedding

FF-64

cut. sh.

med. gr.

v. f. gr. of sh. as:

clasts or conglomerate of lt gr. feldspar

~~FF-64~~

## Location 37

- outcrop

$\frac{35}{400}$  paces on riverbank.

- sandstone

logy-ton with ton  
fgm.  $\frac{7}{3}$

$\frac{4}{3}$   $\frac{4}{3}$  feldspar grain  
in clayey matrix

iron oxide specks

well indurated, sh, bedded  
calc.

feld & quartz

calc veins

400 paces

- outcrop

- overlie sandst prob.

~~claystone~~  
siltstone

- muddy with lim.

v. fine massive

fract & veined

calc. veins

FF ~~65~~ 65

overlain

by ~~overburden~~

coaly overburden

some breccia

chips of chert siltst

thin streaks of microcrystalline

~~qtz. & calc. silt~~

qtz. & calc. matrix

Location 38

outcrop

20/10 SE

- creek

- ~~tuffaceous~~ sandst

lt grey brn interbedded gr brn

lt grey

of feldspar &

volcanic material

subrounded

grit sized clasts of feldspar, irregular

volcanic material

calc.

massive, feldspar

FF-66

4 overlain by

coaly material

staly coal

FF-68

interbedded coal & clay

coal layers up to 4"

- ~~lt grey siltstone~~

also

siltstone

- lt blue gr with same

& grey in part

laminated, siliceous

clayey

FF-67

- in creek bed sandstone

- ~~tuffaceous~~ <sup>volcanic</sup> sandstone?

- medgn. w/ls. tan

vfg.

black mineral

- clasts or shrapnel?

overlain by

black coals overburden

FF- ~~68~~ 69

~~sho~~ ~~study~~ coal

Location 39

outcrop - 283 from creek

- sandstone

~~tan~~ reddish yellow tan

fgr. qtz

ff feldspar grain

cracks of black arg. silts

clayey matrix

lamin.

FF-70

- small outcrop - feldspar

messing sand 70

Riverbank

860  
creek - mine ~~625~~ pass

at 625 pass claim post

31 V X

# Location 40

outcrop

creek (530 or 55°)

~~sandstone~~ sandstone  
~~sandstone~~ volcanic

- f. red br. with ta. br.
- f. qtz. feldspar - anthophyllite?
- feldspar sub feldspar - anthophyllite?
- crystals up to 5 mm
- long - angular
- calcareous.
- clayey matrix
- ~~feldspar~~

- 1" coal stringer.
- assoc. with ore
- can't be traced
- beds with

95° 24' S  
?

FF = 71

Sandstone

-various

lt grey with thin grey-brown  
f g. med-pl. sld.  
grain of qtz & feldspar  
crs g. size iron oxide  
withed clots - calc.  
wh feldspar & sericite  
some carb. material  
clayey matrix

FF-72

Location 4.1

outcrop

- E side of stream. ~150 paces

sandstone ~~is~~ / coarse  
tuffaceous ~~local~~  
lt grey with lt grey  
med gr. ~~light~~  
grain of  $\frac{1}{3}$  feldspar  
reverse gr with feldspar  
& rounded iron ore with  
chert some black  
calc.  
few carb frags.

appear shaly.

FF-73