

020508

PORTER MTN

PROPERTY

EXAMINATION

Aug 14 - 16, 1970

GEOL.

115-14/16

August 14, 1970

Porter ~~Creek~~ Mtn

Air photo

A 11522-4

Locations PM 1-6

samples 1-17

Location 1

outcrop

Intrusive

pink with pink brown
of grained groundmass

+ large wh phenocrysts of
feldspar
up to 1/2"

massive, feld & jld in part

PM - 1

Location 2

25' outcrop

conglomerate 110/33SW

- rounded pebbles (avg size 1")
of dk grey & pale gr chert &
wh quartz

matrix of grey silt
sand size mat of same comp.
- grains of chert, quartz & wh feldspar
binding material of wh clays,
mat iron oxide rich
calc cement

cored with thin
thick beds
interbed with sandstone
lenses

beds 4' thick

~~R2~~ PM-2

interbedded with
sandstone

beds up to 18" thick.

- ltgy-red rocks
med. gr. med-phy. st.
subangular grains of
cht, qtz + feldspar

ph. clay, matrix
iron oxide within -
sl. calc.
few small pebbles of
cht + qtz

FF3 PM-3

also sandstone

4" lense

ltgy with ltgy
med-crse gr. angular grain
phy. st. grains of qtz feldspar
cht ph. clay, matrix
N calc N friable

Location 3

- main outcrop

- section

- strata are badly contorted

main section

bottom-top

- was faulted

(3)

sandstone

lt grey with fine lt grey

red iron oxide specks

med - coarse gr. phs. stl.

18" angular grains of qtz + feldspar
w/ minor ch. gr.

wh. silty binding material

red iron oxide

med - blk bed

PM-8

int bed sandst + shaly coal

- sandst

6" - red withy - med gr. phs. stl.
angular gr. of qtz + ch. feldspar
in iron oxide matrix. calc

- shale -

black, silty thin bed

~~coaly shaly coal~~

coal

shaly - coarse sand grains

qtz + feldspar clastic texture

friable

PM-9

~~coal~~

section

bottom-top

composite section

high line of fold

^{PM} ~~poss~~ thickened

essentially coal

black, thin bed

shiny lustrous, crumbly

~~PM-4~~

- 1' foot thickness at least

PM-4

sandstone

wh. - lt. gray with coal

med. orange grain

6" of fts. - feldspar + med. clay

Matrix A

f. Matrix \approx 40%

calc

PM-5

shaly coal

4" - black
- lenses of sandy coal
of feldspar grain up to $\frac{1}{2}$ " thick -
shaly coal
fissile

PM-6

argillaceous sandstone
shaly with clay.

f. med gr. subangular
grains of feldspar & feldspar
in argillaceous matrix
thickness varies
up to 3'

PM 7

1 - sandstone
6" - lt grey with layers
of grey siltite
subrounded grains of quartz
& feldspar in clayey
matrix - friable
iron oxide
laminated

Sandstone
- layers and thin layers
3' coarse gr. med. silt. st.
angular grains of quartz - with feldspar
with clay matrix well indurated
thick bed
grains to gritty

interbedded with thin
beds up to 1" thick of
argillaceous siltstone
- thin bed, fissure

PM-10

shale

- silty carbonaceous shale
- dk gy - red laminated
- some red in matrix with
varies from thin bed
- med bed
- wt calcite / ft fillings

PM - 11

sandstone

- 2' - SKR PM-10
- some coal shale frag.
- blk bed.

- 6" shale + coal shaly, sandy coal
- dk gy than bed.
- as in carb

- grit sandstone
 At blue gy with some
 N case of quartz, ph, old
 N gyps some w/ feldspar grains
 low clay thin matrix
 friable sl. scale.

PM-12

~~correlation to~~
doubtful correlation here

gritty sandstone
SKR PM-12

coal
2-3" black crumbly
shiny, lustre in part
looks like clastic texture

sandstone
sh. with lags
red iron rich specks
8" subang. or. red-rose gr
subangular grains of quartz + feldspar
w/ clay matrix
friable calc
interbedded with
coal stringers $\frac{1}{2}$ " thick

sandstone

- 11" f - med gr. subrounded
med. sd. iron oxide specks
qtz & feldspar grains
wh. clay matrix
few laminae of coal
& shale is friable

12" COAL

- 13" black - shaly crumbly
shale + sandy laminae

PM-13

sandstone

- 14" f - med - to med. sd
laminated qtz
or sd in part
interbedded with
thin beds of shale & shaly

sandstone
red/brown matrix to top
fg. angular grains
20" of qtz feldspar
mass to st
laminated with coal &
carb shale up to 5 mm thick
iron oxide specks.
red clay matrix well indurated
thick bed

PM-14

shale & shaly coal
lt grey sh. of qtz
matrix. lt - shaly
thin med bed
crumbly
coal seam 1" thick
in shaly shale
few sandy layers

varies greatly in thickness
Coal < 3" thick

sandstone

clay with 1/2 to 1/4 of
red iron oxide specks
med. size gr. angular
1/2 feldspar
w/ clay matrix
well indurated

top not seen

Associated with coal
in outcrops but
strat + struct
relationship unclear

quartzite

- light green with to buff-tan
- ground mass of
well sorted rounded f. gr.
of qtz which cont
iron oxide within + crystals
calcareous

PM-15

5

Sandstone - grit
stgs with to stgs
red iron oxide specks
ply. st. v. coarse
subangular grains of qtz
& some ~~of~~ feldspar
few grains of arg. mat.
v. fine with clay qtzite
matrix sl. calc.
some iron oxide
med-thk bed

PM-16

~~underlain? by.~~

underlain by

section (bottom list)

Sandstone

med-skiz without lt-mudgy

1' fgn med-well sd.
tr of qtz feldspar
iron oxide

laminated with arg +
carb mat.

~~PM-17~~

Coal

black, crumbly
shin luster in pod.

thin med bed

yellow ppt in pits

Calc. pit fillings

PM-17

overlain by

sandstone

SKR as ~~PM-17~~

underlying SS

Location 4

dip to S

old diggings

- covered in

coal outcrops

bottom-top.

sandstone

6" thin ridges with thin
fine of type clayey
argillaceous, laminated.

2" coal

black sh.
shaly in part

shiny luster in part.

yellow sandy layers.

shale

12" - medly - black
- varies from silty - coalby
crumbly, poorly ind. bed.
Carbonaceous

3" sandstone
SKP as underlying 6" bed.

coal
- black crumbly
8" shaly in part thin bed.
shiny luster as in some
places.

interbed sandst + coal
coal seam up to 1" thick
in 1/4" friable ind. bed
sandst.
up to 12" thick

outcrop contorted

Location 5

- outcrop or rubble?

- Sandstone.

lt grey with no lt grey - thin
med - clayey, platy bed.
subangular - angular gr of
qtz - with feldspar
with clayey matrix
iron oxide coating
med bed

Location 6

outcrop
or rubble in place

conglomerate

pebbles of quartz & shaly chert
& some iron ore
rounded, avg size $< 1''$

matrix of sand size mat
chert of grains
with clayey binding material
iron oxide
calc.
shaly bed
matrix $\pm 20\%$

August 15, 1970.

Locations 7-25

Samples 18-35

Air photo

A11522-4

Location 7

- outcrop

- 150 paces 345°

- intrusive

- pale green with ~~poly~~ pale green
f. of groundmass
with iron oxide with
phenocrysts
fold & assembly
calc

PM-18

Above this

cleavage

230/50N

intrusive

SKR - thin cleaved layer
looks odd. $< \frac{1}{2}$ " thick.

PM-19

Location 8

outcrop - 375 paces or 345°

conglomerate.

rounded pebbles + cobbles of
ch₂, lt. gr. quartz +
wh. gr.
few gr. ch₂ pebbles.

matrix of sand & silt
med. silt f. - med. gr.
grain of f₂ feldspar + ch₂
iron oxide, calc.
clay, binding material
calc.

PM-20

Location 9

outcrop

- below Loc 8

- quartzite

- ^{gn.} shaly sand with thin ^{gn.} layers

with ^{gn.} shaly

sh. part

min. diss. sulfide min.

fld + fld

PM-21

various

paleog

- from ^{gn.} shaly

sh. of ^{gn.} shaly

min. diss. sulfide

calc. concretions

PM-22

Location #10

- outcrop

- SKR

quartzite

SKR PM21

- looks conchoidal

iron oxide specks

100 ft N

intrusive

porphyry

light pink with tan-pink
lg. gray granular

feldspar phenocrysts up to 1 cm
iron oxide withing

PM-23

Location 11

outcrops - pink

- intrusive

porphyry

lt pink with pink brown
fg groundmass
with large phenocrysts of
feldspar up to $\frac{1}{8}$ " long,
subhedral-subangular

PM-24

Location 12

- SKR PM-24

Location

Location 13

quartzite?

s. slate

- lt. gr. qtz within l. red brn

N. of qtzite + clayey
iron concretions

Upper Devonian iron sulfides

PM-25

50 high

conglomerate

- col

rounded cobbles + pebbles of chl
qtzite + qtz

Matrix of f. med gr

sand size matrix

subrounded subangular grains of
qtz + chl in some beds per?
in a wh. clayey matrix
sh. iron pebbles

Location 14

outcrop -

- intrusive?

- It gneiss with some gn - born
phenocrysts of iron oxide
without matrix

PM - 26

various to

- pk - born

with to pk born org

med crystalline phenocrysts

of qz

PM - 27

Loc. 15

outcrop

intrusive

porphyry SKR PM-24

- beside

120/23° SW

conglomerate

rounded pebbles = calcite & chert

qtzite = qtz avg size < 1"

med qtz calcite med alk qtz
wh. w. anted massive

matrix of ph. stl

sand size mat

subangular - subrounded

grains of chert + qtz

in fgn of qtz bending

material of calc

matrix ≈ 20%

PM-28

conglomerate subseq.
intruded by
intrusive

fg. of paleo. fg.

phenocryst of the paleo.

2' clear of grains & crystal-
blocks of congl.

3' the veins of intrusive

min. sulfide mineralization

PM-29.

- below congl

intrusive

- paleo. with ls. gr.

fg. of ls.

contact

~~PM-29~~ PM-30

some layered & folded

Location 16

conglomerate

25°/170°SE

3KR PM-28

some sandy layers
with matrix up to 50%
blk color

intruded by
intrusive

salign

fgr. laminated + contorted

PM-31

Location 17

43/34° SE

1951

conglomerate

outcrop below 10 k

conglomerate

85'

pebbles & cobbles of chert quartz + quartzite

matrix of fine to medium size
medium subangular grains
of chert chert feldspar
with clay binding matrix

Q

rel w stl cobbles + pebbles

cobbles over 2"

1 inch

matrix by sandstone

lt-medium with some

med-coarse sandstone

subangular - angular grains of

chert quartz + w feldspar

w clay matrix less

few pebbles -

less up to 1'

PM-32

conglomerate

consists of 20% pebbles

& 80% sand matrix

in place.

Location 18

- below pk.
entcraps

congl - SKR PM 28

intruded by
intrusive SKR PM-31

to N

& intrusive

porphyry SKR PM 27

congl - PM-33

Location 19

enderup 100 paces

~~100 paces~~ gte
lt gr. with white vein
n.f. gr. of gte
phenocrysts slight, min
sulfide?
black min.

melanophase &
clayey gte?

PM-34

below this

- intrusive
lt gr. with to ben gr
w/ aphanitic gr. mass
with phenocrysts of gte
& without feldspar > d_{71}

near to

sample with small
washed phenocrysts

PM-35



Location 20

outcrop - creek

- intrusive

of fgn within fgs tan gas
phenocrysts of melted feldspars

1/3 in

fgs groundmass

phenocrysts up to 1cm

Location 21

outcrop

- 320 on 33°

- intrusive

porphyry

SKR PM-24

150 pacs

- claim post

BL XXVI

V.

Location 22

outcrop

- intrusive

por porphyry.

Location 23

- outcrop

- intrusive

SKR PM-31

Location 23

- 3 4 claim posts

Post #1

"May" M.G. #8

N.

R. 1500 ft.

April 17, 70 5 pm.

P. F. Guder

7

N

L. 1500'

Post

~~MC~~ #2

MC #1

S.

R. 1500 ft.

April 15, 70

P.F. Guder

Post #2

May MC #2.

S.

L. 1500 ft.

April 15. 1970

Location 24

outcrop

intrusive

SKR porphyry SKR PM-24

- 100' north

- coaly debris in
overburden along roadcut

Location 25

outcrop

intrusive SK

porphyry SKR PM-24

August 16, 1970

Air photo

A 11522-169

Locations 26-35

samples 39-56

-note

no samples for 36-38

Location 26

outcrop

- sandstone

med. gr. with to med. gr.
f. med. gr. med. ald.
subangular - subrounded grains
of 1/8 to 1/4. 1/8 to 1/4
= some w/ feldspar
N minor 1/8 to 1/4 ch. grains.

w/ clayey matrix
lms in place

massive

PM - 39

grade upward to
sandstone

med. ch. gr. with to red brn
w/ f. f. gr. med. w. ch.
ch. ch. gr.

d. argillaceous
iron oxide withing

separated laterally by
50' Pleistocene gravels

interbedded coal + shale.

coal up to 4" thick

shale - coal

4" - dk. - red brn

of silty, carbonaceous

iron oxide

plant frag.

PM-40

4" coal

- black, shaly, 1/2 part.

1" siltstone

3" - red brn

- iron oxide mat. carb plant frag.

overlain by

18" interbedd

shale + coal in 2" beds.

Location 27

old coal shaft

co-anticrop

coal-

black folded + contorted
sandy + calcareous in part
folded + faulted

large block (4' x 4')
of yellow silty sandstone
truncated intrusion in coal

up to at least 6' thick w/ exposure
PM-40

~~also~~ overlying coal
conglomerate

round bgs with thinning
rounded pebbles of chert & quartz

matrix of sand with
wedge sized grains of chert & quartz
in brown clayey quartz

binding material sl. calc.
inconsistent coal squeezed into
congl.

Loc. 28

150 m. 8.5°

- outcrop

conglomerate - grit

lt grey with no lt grey
sub. to old rounded
granules & pebbles of chert & quartz

matrix of white lt grey of type silts
clayey matrix
sl. brown

PM-4D

Location 29

outcrop

volcanic conglomerate

- large angular blocks of
dk colored f. gr. porphyritic
volcanics

matrix ~ 10%

- sand size mat.

f. med gr. feldspathic
subrounded grains of feldspar
in tan-yellow clay
cont.

contemp with red-purple

~~PM-42~~

PM-41

~~PM-42~~

location 30

SKR

~~PM-42~~ 41

270 pm or 88°

Location 30

outcrop - 100 yards

conglomerate

rounded pebbles & cobbles of Heggs &
some $\text{gn. chl. qtz gneiss}$ &
 lt. qtz gneiss .

- matrix with thin thin-lim qtz

- red ph. silt well indurated

matrix of ph. silt sand size
 chl. qtz floating in a
 cherty crust .

"fcts thru pebbles."

PM-~~43~~ 42

Location 31

- outcrop

167/47F

~~25~~ sandstone.

medgy with to lt brn

medgy med sd

25 subrounded - sub-angular grains

of slt qtz ckt; slt qtz

minor feldspar qtz

sil cont. v. sl. calc.

med-thk bed.

grads upward to

more feldspar

& sub. clays cont.

8" interbed sandst

- vfg - fgs - thin bed.

med - v. sh. subrounded - rounded

cht qtz & feldspar

argillaceous & some carb. mat.

thin bed.

PM - ~~##~~

overlain by

3' Sandstone

lt gy. within to lt gy.
med. gr. med. sld.
fine rounded - subangular grains
of sh. gr. chrt, arg.
subangular angular grains of qtz
& wh. feldspar
wh. clays, sil. matrix. lmn
med - blk. bed.

P 111 - 45

25' cover

18' Sandstone

med. brng. colors red br.
of gr. med. well sld.
qtz + chrt. gr. lmn
some feldspar
argillaceous; thin bed.

P 111 - 46

various f. gr.

65' - cover

3' Sandstone

lt gy. med. gy. within to red br.
Med - crag. med. sld.
grain of chrt; qtz & feldspar
some gr. chrt. wh. clays sil. cont
lmn

Location 32

130/45 E

section top - bottom

conglomerate

5' shgs-gr with some red brown
rounded pebbles & cobbles of
gr & shgs, ch. & shgs of
& quartz

5' sil cont. & well indurated
matrix in part
of mixed feldspathic
sandstone sil cont.

SKR PM-43

175' cover

3' coal & shale

183 - just beneath overburden
crumbly & wet bed.

coal & shaly shale
interbedded in 6-2" beds.

12' cover

185

2' shale

red brn with shaly
silty iron side

med bedd, well indurated

carbonaceous PM-47

6" coal - black - shaly

197.5 shaly in part

Petrology sample here.

cover

- pink shale

217.5

interbedded coal

4 1/2' " coal & shale

contacted beds

beds 6" - 2" thick

222

PM-48

underlain by

sandstone

3' of brn with shaly

slgs of argillaceous

225 brn clay matrix

carb plant frag PM-49

~~cover~~

20 cover

245

2' shale.

red with med gy.

047

with iron oxide with
med bed, fold
well indurated

PM-50

12' conglomerate

2459

small < 1/2" pebbles of
qtz & chd rounded - calcareous
& feldspar.

coarse with to med gy
mat

matrix of

f-med gy ss.

folly of 1/2 chd = feldspar.

low clay cont.

PM-51

grad

(12' indurated)

grad. down to

grit

62

medgy with to medgy

sub. - subangular grains
of chert etc

some black argillite & feldspar

matrix of ph. silt

sandstone material of same comp.
w/ clay, and lime

PM-52

270 cover

529

sandstone

33 layers with to lt arg. chert
med. etc of. med. silt

subangular grains of chert
etc & some feldspar
w/ clayey matrix
lime

562

med - thick bed.

~~COVER~~

~~Sandstone~~

~~SKR~~

grad down to
SKR. friable
weak thin bed

PM-53

150' - conglomerate - quartz
shaly with clay thin
unrounded pebbles
granules of chert & g/s

612
712

matrix of sandstone
material
ply std grain of chert
fz = feldspar
wh thin clay matrix

5' bed of calc. sp. ss
in bed.

SKR PM-45

60 COVER

692
712

10' sandstone

lt-med gr with to brn

med gr. feld

angular grains of pink gr

feldspar some

some qtz? chl

clayey matrix

calc contd.

922

PM-54

65' cover

847

3' coal & ~~stony~~ coal shale

850

badly with
dirt beneath overburden
shale filled

3" blk.

80 cover

937

outcrop?

2' sandstone

lt gr with lt gr

SKR - # PM-45

Location 33

- 660 paces on road
- coaly material in overburden

Location 34

outcrop

- sandst shale } powerline cut.
- + coaly shale }

roadcut 893

10/352

sandstone

- 8' - medgy with to medgy
of dr medst
fzite, some chl + feldspar
grain argillaceous
carb plant frag deale
some mica
med bed PM-55

2" coal & coaly shale

5' sandstone

SKR - PM-55

shaley laminar

2' coarse coaly shale

2' sand of
~~sandstone~~ shale

1-3' black shaly carbonaceous
silty coal of the carbonaceous
carb. shaly frag.
thick med beds
well stratified

PM-56

~~part of~~
part of

2 1' bed of
black fine shaly shale
with coal seams approx 1"

15' sandstone

SKR 55

med beds

15' sandstone

SKR PM-53

coaly shaly coal
interbeds up to 6" thick -

Location 34

outcrop -

folded & contorted

sandstone

beds with thin clay

med-gr med sd

grain of qtz chl + feldspar

argillaceous lam

wt clay cont

carbonaceous laminae

coal lenses

up to 1' thick

- coal & coal shale

also sandstone

beds with thin clay

med-gr med sd

subangular grain of chl, qtz

& some feldspar

wt clay, matrix fine

calc cont med indurated

med-thick bed

Location 35

outcrop ^{with} \square lake

Sandstone

med gr, unbed to med gr

med- ~~coars~~ med st

angular grain of ckt qtz, feldspar

iron specks

sil. cont. well indurated

thk bed

coal & coals, shale

- badly indurated

directly overlain by overburden

above this

intrusive

skR - PM ~~28~~ 24

Aug. 12

- 270° for 670

- cut line at 182°

170, ~~line at 120°~~

170 pass on cut line -

- blazed line at 120°

- Cstos on 182° cut line.

375

375 pass on 182 line

- good line cut at E-W

- old chain post (NVX)

* B. T. on tree

500 pass - ridge

- 340 on ridge Loc 23

- 325° for 350

* 550-600

150 pass N-

200 p E

300°

300° for 150

35° for 100

163 paces on E - cut line N-S.

445 paces east from loc 29
- N-S line

- 110 on N line

East - 508 (road)

- ∴ total 950 from loc 29

Aug. 13

- 55 for 500

creek for 250-300

90 for 500 (road)