

Checked against partial computer log  
saved on Flash Drive used to construct  
Thesis Figures. 12/08

42 x D.S.

26 x O.S.

7 x S.S.

2 x D.S. → O.S.

1 x O.S. → S.S.

ML 87-13

ML 87-13

- 0-240' Cuttings no core
- 363.5' Calcite surface in black vitrophyre  
dip 90° - oblique slip
- 510' Small basalt flow  
hydrofrac?  
photo
- 651' basaltic andesite w/ chlorite surface  
flow rock, banded  
dip 30° dip slip
- 685.5' basalt/andesite flow  
hydrofrac w/ calcite veins  
photo
- 811.0' Mafic extrusive - ash tuff?  
dip 42° ~~oblique~~ oblique slip

905'  
(276m) Andesite/basalt breccia - clay altered  
breccia  
dip 50° dip slip

3164.5'  
(965m) Andesite flow  
chlorite surface  
dip 45° dip slip

3171' Andesite flow  
chlorite surface + calcite  
dip ~~45~~ 66° dip slip

3198' Andesite  
chlorite surface  
dip 88° oblique slip

3305' Andesite  
chlorite surface  
dip 69° dip slip



3361'

Andesite  
chlorite-calcite surface  
dip 20° - strike slip

3361.5'

Andesite  
chlorite-calcite surface  
dip 65° - oblique

3419.5

And.  
chlorite  
dip 65° - multi event plane  
older dip slip  
younger strike slip

CLUSTER

3497'

Andesite flow rock  
mineral surfaces on chlorite

- 41 dip 38° dip slip
- 42 dip 60° dip slip
- 43 dip 75 dip slip

CLUSTER

3512'

Andesite flow rock  
dip 50° oblique slip  
mineral surface: calcite & chlorite

3512.5'

Andesite flow rock  
dip 46° oblique slip  
mineral surface: calcite & chlorite

3513.5'

Andesite flow rock  
dip 44° oblique slip  
mineral surface: chlorite & calcite

3519'

Andesite flow  
chlorite surface + calcite  
dip 51° oblique

3520'

Andesite flow  
chlorite surface + calcite  
dip 70° oblique slip

3521.5' Andesite flow  
chlorite surface ? calcite  
dip 65° oblique slip

3524.5' Andesite flow  
chlorite surface ? calcite  
dip 87° dip slip

3526' Andesite flow  
chlorite surface ? calcite  
dip 76° dip slip

3632' Andesite flow  
chlorite surface  
dip 49° dip slip

3614' Andesite flow  
hydrofrac? photo  
quartz in vugs +  
fractures

3637'  
+  
3637.5' Andesite flow  
chlorit. surface  
dip 86° oblique slip  
dip 87° " "

3698' Andesite flow  
chlorite surface  
dip 74° dip slip

3699' Andesite flow  
chlorite surface  
dip 57° oblique slip

3692.5 Andesite flow  
chlorite surface  
dip 73° dip slip (somewhat oblique)

3710.5 Andesite flow  
chlorite + clay  
dip 61° dip slip (somewhat oblique)

3721' Andesite flow  
chlorite + calcite  
L1° dip 89° dip slip  
L2° dip 76° oblique slip

3721'-  
3724.5'  
andesite flow  
chlorite ? calcite  
oblique slip dip 88°

~~3724'~~  
3724'-  
3728.5'  
andesite flow  
chlorite ? calcite  
oblique slip dip 86°

3732  
andesite flow  
chlorite  
dip 75° oblique slip

3789.5'  
andesite flow  
chlorite, calcite, quartz  
dip 68° oblique

3832-  
3840'  
Andesite breccia, hydrofractured  
with green-yellow/green mineral  
on fractured surfaces



3918.5' clay altered andesite breccia  
mineral surfaces clay, chlorite  
dip 85° dip slip

4081.5' Andesite flow  
mineral surface chlorite & calcite  
dip 10° oblique slip

4088' Andesite flow  
4088.5' mineral surface chlorite  
4089' 1L 67° dip strike slip  
2L 71° dip strike slip  
3L 68° dip strike slip

4134' clay alt. Andesite breccia  
dip 65° dip slip  
min. surface: chlorite, clay

4164' Andesite flow, chlorite surface  
oblique slip 66° dip

4188'

4189'

hydrofractured andesite breccia

photo

4219'

clay altered andesite breccia

dip 20° dip slope clay surface

4225'

andesite flow

dip 59° dip slope

chlorite surface

4278'

Andesitic breccia / highly alt. andesite flow

dip 60° dip slope

min surface → green um., pyrite, calcite

4304'

Andesite flow - clay altered

clay - chlorite - calcite surface

dip 74° dip slip

4306'

466'

Andesite flow - clay altered

clay - chlorite - calcite surface

dip 33° oblique (nearly strike slip)

4307.5' Andesite flow  
chlorite surface  
dip 21° dip slip

4391.5' Andesite flow  
chlorite surface  
dip 69° dip slip

4391.5' Andesite flow  
chlorite surface  
dip 71° oblique

4402' " "  
" "  
dip 79° strike slip

4412.5' " "  
" "  
dip 58° dip slip

4423'

Andesite flow  
chlorite surface  
dip  $44^\circ$  dip slip

4491'

Andesite flow vesicular  
dip  $62^\circ$  dip slip  
chlorite + calcite

4498'

Andesite flow

4499'

dip slip dip  $65^\circ$   
calcite? chlorite

~~4499.5'~~

4798.5'

Andesite flow

oblique slip  $80^\circ$  dip  
chlorite + calcite

4978.5

sparsely vesicular andesite flow  
chlorite + white-non calcite  
mineral on surface  
dip slip  $66^\circ$

4980.5 Andesite flow  
Chlorite surface  
oblique slip  $54^{\circ}$  dip

5054-  
5073 Andesite breccia  
highly fractured possibly fault  
zone ??

5044 Andesite breccia (tectonic?)  
Photo

5087 Andesite flow  
chlorite surface  
dip slip  $69^{\circ}$  dip

5142 Andesite breccia  
chlorite surface  
dip slip  $80^{\circ}$  dip

5142.5  
dip slip  $47^{\circ}$  dip

5145 Andesite breccia  
chlorite surface  
dip slip  $64^{\circ}$  dip

5145.5 oblique slip  $62^{\circ}$  dip

5146 dip slip  $35^{\circ}$  dip

5147.5 dip slip  $65^{\circ}$  dip

5150 Andesite breccia  
chlorite surface  
dip slip  $45^{\circ}$  dip

5152.5 oblique slip  $65^{\circ}$

5154 dip slip  $67^{\circ}$

5161 Andesite  
chlorite surface  
dip slip  $60^{\circ}$

5279

Andesite flow

chlorite surface

dip  $5^{\circ}$  strike slip

5279.5

- dip  $52^{\circ}$  oblique

5280.5

dip  $52^{\circ}$  dip slip

5410

Highly altered vesicular andesite

5750

flow breccia - no fractures

5824

Andesite flow

mystery yellow-green mineral

oblique slip  $63^{\circ}$  dip

5835 -

~~5861~~ 5900

Andesite flow - dense well fractured

5860

Andesite flow

chlorite - clay surface

dip slip  $53^{\circ}$  dip

5865

Andesite flow  
Clastic  
dip slip dip 5°

5876

dip slip dip 52°

5882

diqve 360° dip