

GRAPHIC LOGS

mineral fill  
30%

75%

80%

60%

30%

OVERLAP W/ NEXT PAGE

DEPTH	ALTERATION							# Fracs	por	GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK 2. MOD. 3. STRONG											
	Calcite	Chlorite	Hemite	Quartz	Zelite	Clay.						
1350'												Basaltic andesite
1355'												47° shear plane, 2 hem, 1 chlorite, no slix
1359'												32° shear plane, poor slix, 1 chlor, 2 hem
1360'												23° shear plane, 1 chlor, 2 hem poor slix no vectors
1365'												59° 1 chlor, 2 hem, shear, poor slix, no vectors
1375'												andesite
1375.5'												42° shear - dip/slip, rake 75°, 1 chlor, 2 hem, 3 calcite
1375.5'												47° shear, 1 chlor, 2 hem, 3 calcite
1376'												45° shear, 1 chlor, 2 hem, 3 calcite
1376.5'												50° rake 50° shear - oblique 1 chlor, 2 hem, 3 calcite
1376.75'												44° hydro-thermal breccia, chlorite clays calcite in fill
1377'												87° nudo frac, 1 chlor, 2 hem, 3 cal
1380-1410												clay altered andesite / chlorite clay
1384'												11° dip/slip, rake 85°, sweet slix, 1 chlor
1385'												10° dip/slip, rake 85°, good slix, 1 chlor
1386.5'												41° <del>shear</del> , rake 35°, oblique slip, slix, 1 chlor
1387'												67° rake 100°, great slix <del>photo</del> , 1 chlor
1387.25'												11° Shear, dip/slip, poor slix no rake, 1 chlor Box 179 paleo mag
1388'												46° shear 1 chlor, 2 hem, rake 45°, oblique slip
1387.5'												56° good slix, dip/slip, rake 85°, 1 chlor
1387.16'												82° good slix, dip/slip, 1 chlor
1387.7'												69° shear, good slix, dip/slip, rake 80°, 1 chlor 2 hem, 3 zeo
1387.8'												63° shear, 1 chlor, 2 hem, 3 zeo, rake 54°, oblique
1387.9'												38° 1 chlor, 2 hem
1389'												68° shear, 1 chlor, 2 hem, 3 zeo
1390'												53° shear, dip slip, rake 10°
1392.5'												60° shear, rake 65°, dip/slip, 1 chlor, 2 zeo
1393'												70° shear, rake 45°, 1 chlor, 2 zeo
1393.25'												80° oblique, rake 40°, 1 chlor, 2 zeo, 3 pyrite?? [sample]
1394.5'												33° shear, oblique, good slix
1400'												33° frac
1412.5'												29° shear, no slix - blebed calcite in frags 1380' - 1412 - chlorite altered andesite - probable fluid entry point
1419'												39° frac shear - 1st chlorite
1419.5'												23° frac, shear - 1st chlorite
1420'												44° frac shear - 1st chlorite
1420.5'												29° " " " "
1423.5'												37° frac shear - 1st chlorite 2nd hem 3rd calcite
1425'												50° frac - 1st chlor 2nd hem 3rd calcite
1426'												75° frac - tensile (fibrous calcite crystals, open space) - calcite - possibly hydrofracture
1428' - 1444'												heavily clay altered andesite

DRILL HOLE 45-36  
LOCATION MEDICINE LAKE CA

LOGGED BY S. CLAUDEN

degree of Mineral Pilling 30%  
1

OVERLAP w/ PREV. PAGE

Flow bottom cinder-  
sed

flow  
andes.

153  
red  
cinder  
gravels

DEPTH	GRAPHIC LOGS										GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS
	ALTERATION						#Fros box	per Noble						
	Calcite 1.23	Chlorite 1.23	Hemite 1.23	Quartz 1.23	Zeolite 1.23	Clay? 1.23								
1430'													1432'	Hydrothermal breccia? / hydro frac? cuboidal Quartz crystals and chlorite
1440'													1438' 79°	1440'-1457' <del>off</del> or Cinder + Ash
1450'													1456.5'	Sample <del>off</del> or andesite flow
1460'													1459' 30°	frac - shear - 1 <sup>st</sup> chlor 2 <sup>nd</sup> Calcite
1470'													1467' 31°	frac - 1 <sup>st</sup> chlor 2 <sup>nd</sup> Hem 3 <sup>rd</sup> Zeolite
1480'													1475' 38°	tensile frac - 1 <sup>st</sup> chlor 2 <sup>nd</sup> Hem 3 <sup>rd</sup> Zeolite 4 <sup>th</sup> Calcite
													1473' 61°	frac - " " " "
													1477' 45°	frac - " " " "
													1479' 75°	frac " " " "
													1484' 53°	frac " " " "
													1486' 25°	frac " " " "
													1491' 33°	frac " " " "
													1492' 48°	frac " " " "
													1492' 45°	frac " " " "
													1495' 53°	haul " " " "
													1496' 65°	hailed - calcite
													1496' 65°	rake 80° 65° chl + hem + cc shear
1520'													1490' 41°	rake 75° " " "
													1501' 45°	rake 74° " " "
													1502' 3°	rake 88° " " "
													1517' 60°	frac " " " "
													1520' 59°	frac " " " "
													1521' 30°	cc filled fracture " " "
													1521' 58°	frac " " " "
													1521' 63°	cc filled fracture " " "
													1529' 31°	frac " " " "
													1525' 47°	hydro breccia " " "
													1528' 29°	frac " " " "
													1529' 22°	frac " " " "
													1530' 55°	frac " " " "
													1531' 46°	flow band " " "
													1532' 61°	frac " " " "
													1533' 85°	frac " " " "
													1568' 83°	cc vein " " "
													1597' 40°	rake 20° " " "

DRILL HOLE 45-36  
LOCATION MEDICINE LAKE, CA

LOGGED BY S. CLAUSEN  
J. MOORE

DEPTH	GRAPHIC LOGS										DESCRIPTIONS
	ALTERATION						# of Per box	fractures box rubric	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG  VEINLETS	
	calcite LRT	chlorite LRT	hematite LRT	quartz LRT	kaolinite LRT	clay: LRT					
1530											
1540											
1550											
1560											
1570											
1580											
1590											1593' 49° frac slix rake 20° chlor' hem <sup>2</sup> 1595' 50° frac slix rake 23° chlor' calcite <sup>2</sup> 1597' 51° frac slix rake 50° hem' calcite <sup>2</sup>
1600											
1610											
1620											
1630											1621' 34° frac slix rake 75° hem 1622' 31° frac slix rake 75° hem 1625' 20° frac 'hem' chlor <sup>2</sup> calcite

DRILL HOLE 45-36  
 LOCATION medicino lake, CA

LOGGED BY d. Moore

DEPTH	GRAPHIC LOGS										DESCRIPTIONS
	ALTERATION						# of	fract.	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	
	calcite	chlorite	hematite	quartz	sericite	clay					
10830											1085' 33" chlor' hem <sup>2</sup> calcite <sup>3</sup> 1087' 18" chlor' hem <sup>2</sup>
10840											
10850											
10860											
10870											
10880											
10890											
10900											
10910											
10920											
10930											
10940											
10950											
10960											
10970											
10980											
10990											
11000											
11010											
11020											
11030											
11040											
11050											
11060											
11070											
11080											
11090											
11100											
11110											
11120											
11130											
11140											
11150											
11160											
11170											
11180											
11190											
11200											
11210											
11220											
11230											
11240											
11250											
11260											
11270											
11280											
11290											
11300											

DRILL HOLE 45-30  
 LOCATION medicine lake, CA

LOGGED BY J. Moore



DEPTH	GRAPHIC LOGS										VEINLETS	DESCRIPTIONS
	ALTERATION						# of PER	Fracture box	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG		
	calcite 123	chlorite 123	monite 123	quartz 123	zeolite 123	clay? 123						
							low mod high	Table				
1830												1834' 33° chlor' hem <sup>2</sup> zeol <sup>3</sup>
												1843' 43° " " "
												1844' 38° 38' " " "
												1845' 41° " " "
1840												1846' 89° 70° " " healed
												1848' 69° " " "
												1849' 40° " " "
												1853' 15° " " "
1850												1853' 87° " " healed
												1855' 73° " " healed
												1855' 75° " " healed
												1859' 53° " " healed
												1864' 31° rake " 75°
												1867' 73° " " "
1860												1867' 76° " " qtz + cc healed
												1870' " " "
												1871' 65° " " healed
												1876' 51° " " "
1870												1876.5' 62° " " healed breccia
												1872' 77° " " "
												1873' 55° " " "
												1873.5' 10° " " "
												1874' 80° " " healed
1880												1878' 58° chlor' hem <sup>2</sup>
												1878.5' 33° chlor'
												1879' 38° chlor'
												1880' 68° " " "
												1881' 40° " " "
1890												1882' 25° " " rake = 62°
												1883' 31° " " rake = 60°
												1885' 72° " "
												1888' 72° " "
												1888.5' 48° " "
1900												1890' 41° " "
												1893' 35° " " rake = 75°
												1894' 50° " "
												1895' 84° " "
												1900' 20° " "
1910												1902' 58° " "
												1904' 65° " "
												1904' 55° " "
												1905' 78° " "
												1907' 60° " "
												1908' 83° " "
1920												1910' 89° " "
												1911' 78° " " zeol "
												1914' 65° " "
												1915' 11° " "
1930												1918' 16° " "
												1919' 57° " " healed
												1919' 85° " " cut last

Mineral fill  
40%

1843  
hydrotherm.  
breccia

1878-80  
hydrother.  
breccia

70%

DRILL HOLE 45-36  
LOCATION Medicine Lake, CA

LOGGED BY J. Moore





GRAPHIC LOGS

mineral  
hill  
70%

calcite  
+10%

DEPTH	ALTERATION							# of Per	Fractures box /inches	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG  VEINLETS	DESCRIPTIONS
	calcite	chlorite	hematite	quartz	zeolite	clay						
	123	123	123	123	123	123	low med high					
2130												
2140												2140'40" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
												2143'50" chlor <sup>1</sup> calcite <sup>2</sup>
												2143'54" chlor <sup>1</sup> calcite <sup>2</sup>
												2144'49" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
2150												2145'52" chlor <sup>1</sup> calcite <sup>2</sup>
												2149'42" chlor <sup>1</sup> calcite <sup>2</sup>
												2150'54" chlor <sup>1</sup> calcite <sup>2</sup>
												2155'89" chlor <sup>1</sup> calcite <sup>2</sup>
												2158'30" chlor <sup>1</sup> calcite <sup>2</sup>
2160												2160'51" chlor <sup>1</sup> calcite <sup>2</sup>
												2167'25" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
2170												2177'37" chlor <sup>1</sup> calcite <sup>3</sup> hem <sup>2</sup>
2180												2180'33" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
2190												
2200												
2210												
2220												2221'35" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
2230												2235'52" chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>

DRILL HOLE 45-36  
 LOCATION medicine Lake,

LOGGED BY e. jackson

GRAPHIC LOGS

Mineral fill  
70% flow  
andesite flow  
ash-tuff  
andesite  
hydrothermal breccia  
50%  
30%

DEPTH	ALTERATION							# of per	fractures box	GRAPHIC GEOLOGY	TR. TRACS 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS
	calcite	chlorite	sericite	quartz	zeolite	clay?							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	low mod high						
2230													
2240													2240'35° chlor <sup>1</sup> hem <sup>2</sup> qtz <sup>3</sup> 2240'53° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup> qtz <sup>4</sup>
2250													2253'15° chlor <sup>1</sup> calcite <sup>2</sup>
2260													2260'35° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> - banded 2260'55° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> - banded
2270													2268'38° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> - banded 2268'41° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> - banded 2269'43° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> - f 2270'25° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup>
2280													2284'30° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> 2284' hydrothermal breccia
2290													2290'25° chlor <sup>1</sup> hem <sup>2</sup> calcite <sup>3</sup> 2295'52° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup> 2299'28° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup>
2300													2305'15° healed trac. 2306'44° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup> 2306'40° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup> 2311'71° chlor <sup>1</sup> hem <sup>2</sup> cal <sup>3</sup> 2316'53° chlor <sup>1</sup> hem <sup>3</sup> cal <sup>3</sup>
2320													2321'00° chlor <sup>1</sup>
2330													2330'00° chlor <sup>1</sup>

DRILL HOLE 45-36  
LOCATION medicine Lake

LOGGED BY e. jackson