

C. E. Mattson

LITHOLOGIC LOG

Project Ragged Mtn. Ext. Hole no. RMX-13 Dip -45° Started 6/22/82 Elev.

Job no. 272.2 Township T9-R10 Coord. 7890N 6950E Direction 336° Mag Completed 6/29/82

Lithotype

0'	Overburden
13'	Interlayered Shale and Greywacke - black and grey calcareous shale interlayered with a calcareous matrix, fine grained greywacke, some graphite along fracture surfaces some thin layers with high % pyrite, layers vary from 1' to 1/4" in thickness and from 5°-80° to core axis (at 43' layering λ is 80° and at 45' the layering λ is 5°) changing very quickly
50'	
98'	Felsic Lapilli Fragmental - some fractured rhyolite frags, other dark colored siliceous fragments, matrix dark and siliceous, makes frags hard to see, some calcareous blebs, some frags contain sulphide and the rest stringer and disseminated
100'	
115'	Altered Felsic Lapilli Fragmental - frags of rhyolite, quartz and some altered exhalite frags, sericite and some chlorite alteration in patches (matrix) or altered frags, some wavy tuffaceous layering visible, at 117' is 35° to core axis and at 182' is 50° to core axis, lost 10' becoming less altered
150'	
184'	Dacite (see 213'-256') - Calcite and Po and Py brecciate this section
190'	Same as last 10' of 115'-184'
196.5'	Dacite (see 213'-256') - Calcite veins and amygdules
203'	Contact between Dacite and Alt. Felsic Lapilli Fragmental
213'	Dacite - grey-green colored, massive to fractured and broken, calcite amygdules in the massive sections and calcite veins in the fractured section, last 10' picking up graphite on fractures
250'	Black Shale and Greywacke - sections calcareous like 13'-98', graphite on fractures, not well layered, some broken greywacke layers at 256', sulphide in layers
256'	
260'	Altered Felsic Lapilli Fragmental - same as 115'-184', except contains less total alteration, less sulphide, some wavy tuffaceous layers, at 317' - 50° to core axis, at 319' - 10° to core axis
300'	
320'	Black and Grey Calcareous Shale - graphite on fractures, some layers almost down the core axis
330'	Altered Felsic Lapilli Fragmental - same at 260'-320'
349'	
350'	Bottom of Hole

ACID TESTS

Depth	Actual λ	Corrected λ
200'	53°	47°
340'	53°	47°

APPALACHIAN RESOURCES, INC.

DDH RMX-13- (Assays for Portion of Hole)

<u>DEPTH (FEET) FROM COLLAR</u>	<u>LENGTH</u>	<u>% Zn</u>	<u>% Cu</u>	<u>% Pb</u>	<u>Oz/Ag</u>	<u>Oz/Au</u>	<u>Approx. % Sulphide</u>	<u>Ni</u>
100-110	10'	None	None	None	None	None	5.3	None
159-169	10'	None	None	None	None	None	2.1	None

Bottom of Hole: 349'