E. Skeffington
T. Williamson

J.S. Cummings Inc.

LITHOLOGIC LOG (page 1 of 2)

Project Caucomgomoc Hole no. CC-38 Dip Vertical Started 10/23/79 Elev. ____

Job no. 255 Township T7-R15 Coord. 1600N B 700W Direction ____ Completed 10/26/79

Lithotype

0' 6'
Overburden

Rhyolitic-Dacitic Tuff
Grey to green, fine to medium grained, locally weakly calcareous and sericitized and upper part has fragments of grey and black rhyolite (<1/10" - 1/2")

32'

Calcareous Agglomerate
Angular (10%) and rounded fragments of quartz, rhyolite, shale, grey matrix - contains 4' of calcareous shale

50'
61'

Rhyolite
Locally brecciated, agglomeritic

100'

150'
Calcareous Shale (tuffaceous) grey, fine grained

159'
Rhyolite Breccia
Grey, fine grained

175'
Calcareous Shale
Grey to grey black, fine grained, locally graphitic, locally tuffaceous
220' - 227' and 232' - 236' are layers of siliceous agglomerate and tuff

200'

246'
250'
255'
Basalt - pink feldspar basalt

Interlayered Calcareous Shale and Siliceous Tuff 3 - 15' layers

300'
309'

Calcareous Shale,
Locally Tuffaceous, fine grained, grey-grey black, layered, locally Fragmented

350'

394'
400'
Massive Rhyolite
Massive, grey, white

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LITHOLOGIC LOG (page 2 of 2)

Project Caucomgomoc Hole no. CC-38 Dip Vertical Started 10/23/79 Elev. ____

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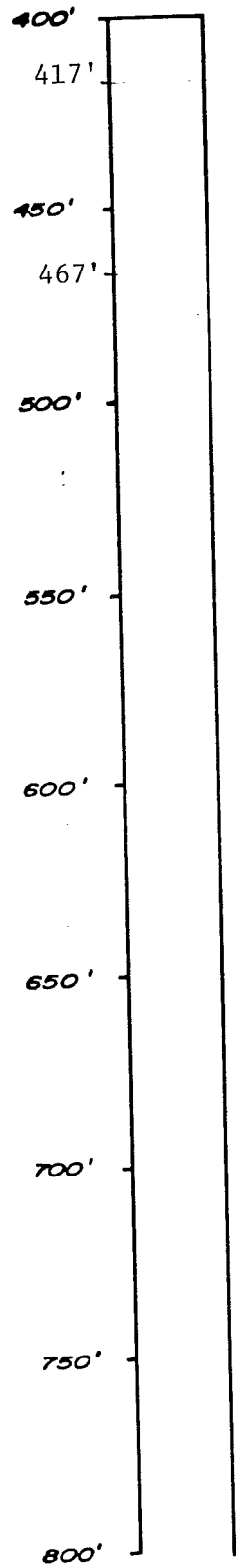

Lithotype

Massive Rhyolite
Massive, grey, white

417'

Rhyolite Tuff or Ignimbrite
Weak laminae (45° to long axis of core)
Grey-green, fine grained

467'

Calcareous Shale
Grey-grey green, locally fragmented

Bottom

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SULPHIDE LOG

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Project Caucomgomoc Hole no. CC-38 Dip Vertical Started 10/23/79 Elev.

Job no. 255 Township T7-R15 Coord. B 1600N 700W Direction Completed 10/26/79

FROM	TO	INTERVAL	EST. % SULPHIDES	EST. METAL (Cu, Pb, Zn)
6	10'	4'	<1%	
10	32'	22'	±1%	Fine grained, dis. pyrite
32	60'	28'	<1%	Pyrite
60	61'	1'	±5%	±1.0 - 1.5% Zn
61	65'	4'	<1%	
65	75'	10'	±2%	±0.2% Zn
75	85'	10'	±5%	±3% sphalerite or ±1.8 to 2.0% Zn
85	95'	10'	±2%	Chalcopyrite, sphalerite, galena ±
95	105'	10'	±10 - 15%	Sphalerite 5-7% or 3.0-3.5% Zn
105	115'	10'	± 5 - 10%	±5-7% sphalerite or 3.0 - 3.5% Zn
115	125'	10'	± 2 - 5%	Trace
125	135'	10'	± 5%	Sphalerite ±4-5% or 2.4 to 3.0% Zn
135	145'	10'	±1%	±1% sphalerite or ±0.2 - 0.4% Zn
145	155'	10'	±2%	±1% sphalerite or 0.2% Zn
155	165'	10'	±5 - 7%	±5% sphalerite or ±2.5 to 3.0% Zn
165	175'	10'	±2%	Sphalerite ±1% or ±0.2-0.4% Zn
175	212'	37'	<1%	No trace
212	216'	4'	5 - 10%	Sphalerite ±2% or ±1 - 1.2% Zn
216	231'	15'	<1%	
231	232'	1'	±10%	Sphalerite ±2% or ±1 - 1.2% Zn
232	255'	23'	<1%	
255	263'	8'	±5 - 10%	Sphalerite ±7-8% or ±4.2% - 4.8%
263	274'	11'	<2%	Trace sphalerite
274	277'	3'	±15%	Chpy, sphal. galena, py. ±3-4% sp
277	300'	23'	<1%	
300	309'	9'	±10 - 15%	Sphalerite ±5% or 3.0% Zn
309	315'	6'	±2%	Trace
315	316'	1'	±5%	Sphalerite all or 5.0% or 3.0% Zn
316	323'	7'	±1%	Trace
323	332'	9'	±15%	Trace to ±1% sphalerite???
332	340'	8'	±1%	Trace
340	346'	6'	±2 - 5%	Trace ±2% sphalerite
346	356'	10'	±2%	Trace

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SULPHIDE LOG (page 2 of 2)

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Job no. 255 Township T7-R15 Coord. B 1600N 700W Direction Completed 10/26/79

FROM	TO	INTERVAL	EST. % SULPHIDES	EST. METAL (Cu, Pb, Zn)
356	366	10'	±5 - 10%	Sphalerite ±1% or ±0.6% Zinc
366	376'	10'	±2 - 5%	Sphalerite ±2% or ±1.0% zinc
376	386'	10'	<1%	Very fine grained dis. pyrite - nil zinc
386	396'	10'	±2%	Trace to ±0.5 - 1% sphalerite
396	406'	10'	±2%	Sphalerite ±2% or ±1-1.2% Zinc
406	416'	10'	<1%	
416	426'	10'	±2%	Sphalerite ±.5% or ±0.3% Zinc
426	436'	10'	±2%	Trace
436	446'	10'	<1%	
446	456'	10'	<1%	
456	466'	10'	<1%	Trace pyrite
466	476'	10'	±1%	Chalcopyrite, sphalerite est. ±0.2% Zinc
476	486'	10'	±1% to <2%	Sphalerite ±1%, trace galena & sphalerite
486	496'	10'	<1%	
496	500'	4'	<1%	
500'		BOTTOM		

J. S. Cummings, Inc.

DDH CC-38 - (Assays for Portion of Hole)

DEPTH (FEET) FROM COLLAR	% Zn	% Cu	% Pb	Oz/Ag	Oz/Au	S
65 - 75	0.05		None			1.16
75 - 85	0.85		None			2.16
85 - 96	Trace		None			0.96
96 - 105	1.65		None			5.53
105 - 117	2.25		None			6.05
117 - 125	0.10		None			1.42
125 - 135	1.10		Trace			3.15
135 - 145	0.05					0.50
145 - 155	0.20					0.87
155 - 165	1.00		None			2.69
165 - 175	0.10					0.96
175 - 185	Trace					1.00
185 - 195	0.05					1.35
195 - 205	None					1.13
205 - 212	None					1.57
212 - 216	2.15		None			6.16
216 - 226	0.05					0.72
226 - 236	0.20					0.83
236 - 246	None					0.81
246 - 255	Trace					0.35
255 - 262	1.15		None			2.77
262 - 274	0.05					0.83
274 - 277	1.85		Trace			6.98
277 - 287	0.05					0.41
287 - 300	Trace					0.35
300 - 309	1.90		None			4.81
309 - 316	0.60					0.60
316 - 323	0.10					0.05
323 - 332	2.05		Trace			5.83
332 - 340	0.20					0.63
340 - 346	0.85					1.94
346 - 356	0.05					0.85
356 - 366	0.95					2.32
366 - 376	0.50					1.44
376 - 386	None					0.31
386 - 396	0.05					0.51
396 - 406	0.10					0.46
406 - 416	None					0.02
416 - 426	0.25					0.81
426 - 436	Trace					0.37

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DDH CC-38 - (Assays for Portion of Hole)

DEPTH (FEET) FROM COLLAR	% Zn	% Cu	% Pb	Oz/Ag	Oz/Au	S
436 - 446	None					0.03
446 - 456	None					0.23
456 - 466	Trace					0.24
466 - 476	0.05					0.36
476 - 486	0.10					0.45
486 - 500	None					0.41

Bottom of Hole: 500'