

CV-C-1-83

DRILL HOLE GEOLOGIC LOG HELTON PROPERTY

Hole Number TOL-11 Section _____ Twn. _____ Rge. _____ Grid Coordinates _____ N _____ E
 Collar Elevation _____ Azimuth N70W Dip -70° Logged by BTR Date DEC-83

LOGGING COMPLETED 12-9-83

XRF

0)
 ↓
 Biotite
Garnet
Amph
Schist
 ↓
 Foliation
 BG
 ↓
 Biotite
Garnet,
Amph
Schist
 ↓
 Foliation
 BG

From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	From	To	Interval	Sample No.(s)	XRF ppm Sn	ppm W
0.0	30.0	30.0	0%	SOIL - SIPPOLITE				30.0	86.5	ALTERATION ASSOCIATED W/ WEATHERING? FELDSPARS ARE ALTERED & LEACHED; THIN LEUCOSOMES MORE CIRCULAR APPEARANCE. SOFT YELLOW FOG? ALONG SOME FOLIATIONS.						
30.0	36.8	6.8	65%	BIOTITE, QUARTZ, FELDSPAR, SILLIMANITE (P), AMPHIBOLITE, Biotite WEATHERED, OXIDIZED & LEACHED. MINOR q.f. TOURMALINE (BLACK) LEUCOSOMES APPROX 80% BS; 20% LEUCOSOMES.	30.0	36.8	FOLIATION ~ 50° TO CORE AXIS W/ LOCAL UNFOLIATIONS									
36.8	50.0	13.2	57%	FELDSPATIC BIOTITE GNEISS. FELDSPAR, QUARTZ, BIOTITE GARNET (PINK) GNEISS W/ SEVERAL THIN q.f. BI GARNET (PINK) LEUCOSOMES. INTENSELY WEATHERED, OXIDIZED. MINOR FSZ APPROX 85% BS; 15% LEUCO- SOMES.	36.8	50.0	FOLIATION ~ 40° TO CORE AXIS									
50.0	80.5	30.5	87%	BIOTITE, QUARTZ, FELDSPAR, AUGEN-SILLIMANITE, GARNET (PINK) SCHIST W/ GRANITE & FSZ LAMINAE OCCASIONAL q.f. BI GARNET (PINK) & MUSCO- VITE LEUCOSOMES APPROX 80% BS; 20% LEUCOSOMES. WEATH- ERED W/ MORE SUBTLE OXIDATION OF FSZ. YELLOW-ORANGE, SOFT MATERIAL ALONG FOLIATION AND IN LAMINAE.	50.0	80.5	FOLIATION VARY FROM 90° - 50° TO CORE AXIS. TIGHT LOCAL FOLIATION (KINK BANDING)									
54.2	54.5	0.3	100%	q.f. bi. MUSCOVITE, GARNET (PINK), TOURMALINE (BLACK) LEUCOSOME												
57.7	57.9	0.2	100%	q.f. bi. GARNET (PINK) LEUCO- SOME												
72.4	72.1	1.7	15%	q.f. bi. LEUCOSOME												
73.7	75.1	1.4	22%	q.f. bi. LEUCOSOME W/ MINOR GARNET (PINK), MUSCOVITE, SILLIMANITE SEVERAL THIN BS INTERLAINERS												
77.1	78.3	1.2	100%	INTERLAYERED AMPHIBOLITE (?) & BS THIN SCHIST												
79.0	80.0	1.0	100%	q.f. MUSCOVITE, TOURMALINE (BLACK) bi. LEUCOSOME W/ BS INTER- LAYERS												
80.5	97.8	17.3	100%	FELDSPATIC BIOTITE GNEISS FOLIO- SOME QUARTZ BIOTITE; MED - FINELY XEN, LIGHT GRAY, OOLAS MINOR q.f. bi. TOURMALINE (BLACK) MUSCOVITE, SILLIMANITE, LEUCO- SOMES AND BS INTERLAINERS.	80.5	97.8	FOLIATION ~ 90° TO CORE AXIS				87.4	93.4	6.0	3041	45	3

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XRF

From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	From	To	Interval	Sample No.(s)	Ppm Sn	Ppm W
				Approx 85% Bg; 10% LEUCOSOMES; 5% BS.												
80.8	81.2	0.4	100%	INTERLAYERED Bg & BS.												
81.5	82.5	1.0	100%	q.f. bi, MUSCOVITE LEUCOSOME w/ MINOR TOURMALINE (BLACK)				81.5	82.5	YELLOW-ORANGE FeOx Along FRACTURES						
83.3	84.2	0.9	100%	q.f. bi, MUSCOVITE LEUCOSOME TR. FES ₂ BS INTERLAYERS												
85.3	85.7	0.4	100%	q.f. bi, MUSCOVITE, SILLMANITE? LEUCOSOME w/ MINOR GARNET (PINK), TOURMALINE (BROWN); BS INTERLAYERS												
90.9	91.4	0.5	100%	BIOTITE, GARNET AUGEN SCHIST												
97.4	97.6	0.2	100%	BIOTITE, GARNET SCHIST												
97.8	671.5	573.7		BIOTITE, QUARTZ, FELDSPAR, GARNET (PINK) & ALBITE/SILLMANITE SCHIST w/ MINOR FES ₂ , GARNET, TOURMALINE (BLACK), DARK BROWN - LIGHT BROWN GREY, MED-FINELY XN. FELDSPATHIC CONTENT VARIES FROM MINOR TO FELDSPATHIC BIOTITE SCHIST. OCCASIONAL q.f. bi & GARNET (PINK) & MUSCOVITE & TOURMALINE (BLACK) LEUCOSOMES & TOURMALINE LAMINATIONS	97.8	671.5	FOLIATION AVERAGES BETWEEN 60°-80° TO CORE AXIS. INTENSE LOCAL DEFORMATION w/ IN THE BS (KINK FOLDING, ETC.) Bg & LEUCOSOME INTERLAYERS FRACTURE ~20° TO CORE AXIS (STRAIN IS TAKEN UP IN BS AS FOLDING; Bg-LEUCOSOMES FRACTURE).				125.6	131.6	6.0	3042	45	4
											238.4	244.4	6.0	3045	45	3
											401.0	407.0	6.0	3039	7	3
											431.2	436.0	4.8	3040	45	2
											460.0	466.0	6.0	3049	45	4
											470.5	476.3	5.8	3051	6	3
											526.6	532.4	5.8	3053	45	4
											552.5	557.7	5.2	3054	45	4
											568.6	575.0	6.4	3037	8	4
											586.0	592.1	6.1	3055	45	4
											598.2	603.7	5.5	3036	7	6
											612.1	618.1	6.0	3056	45	5
98.4	98.7	0.3	100%	q.f. bi, GARNET (PINK), MUSCOVITE, SILLMANITE LEUCOSOME												
99.4	100.7	1.3	100%	q.f. bi, TOURMALINE (BLACK), MUSCOVITE LEUCOSOME												
101.0	101.3	0.3	100%	q.f. bi LEUCOSOME												
101.4	101.9	0.5	100%	q.f. bi, MUSCOVITE LEUCOSOME												
102.7	107.6	4.9	100%	q.f. bi, MUSCOVITE GRANITIC LEUCOSOME w/ MINOR GARNET (PINK) & TOURMALINE (BLACK)												
116.8	117.1	0.3	100%	CALC-SILICATE? TR. CANOPY												
158.1	158.9	0.8	100%	q.f. bi, MUSCOVITE, SILLMANITE LEUCOSOME												
169.6	170.1	0.5	100%	q.f. SILLMANITE GARNET (PINK) LEUCOSOME w/ MINOR Bg, FES ₂							169.3	175.9	6.6	3043	45	4
170.4	173.6	3.2	100%	q.f. SILLMANITE, GARNET (PINK), bi LEUCOSOME												
174.7	180.0	5.3	100%	q.f. SILLMANITE, GARNET (PINK) bi, CHLORITE LEUCOSOME w/ MINOR TOURMALINE (BLACK), FES ₂ OCCASIONAL BS INTERLAYERS												

FELDSPATHIC

BIOTITE, GARNET, AUGEN SCHIST

SAND FOLDS EMBAYED?

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XRF

From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	From	To	Interval	Sample No.(s)	ppm Sn	ppm W
180.0	180.2	0.2	100%	CALC-SILICATE ? No schist w/UV												
183.0	183.9	0.9	100%	q.f. bi. GARNET (PINK), SILLMANITE, MUSCOVITE LEUCOSOME w/ Bs INTERLAYERS												
193.1	194.6	1.5	98%	q.f. bi. SILLMANITE, MUSCOVITE, TOURMALINE (BLACK) LEUCOSOME w/ Bs INTERLAYERS, MINOR FeS ₂												
194.9	195.9	1.0	100%	193.7: OPEN SPACE XL GROWTH q.f. bi. MUSCOVITE, GARNET (PINK), GRAPHITE, TOURMALINE (BLACK) LEUCOSOME w/ Bs INTERLAYERS												
196.1	196.8	0.7	100%	q.f. bi. GARNET (PINK), SILLMANITE, MUSCOVITE LEUCOSOME 196.7: OPEN SPACE XL GROWTH												
204.1	205.7	1.8	99%	q.f. bi. GARNET (PINK), SILLMANITE LEUCOSOME 205.2-205.4: Bs INTERLAYER							203.8	205.7	1.9	3044	45	4
216.3	216.7	0.4	100%	FELDSPATHIC Bs INTERLAYER												
220.8	221.4	0.6	100%	q.f. bi. GARNET (PINK), SILLMANITE LEUCOSOME												
223.8	224.4	0.6	100%	CALC-SILICATE ? No schist w/UV												
225.8	226.1	0.3	100%	q.f. bi. GARNET (PINK) LEUCOSOME. TR. FeS ₂												
226.9	227.4	0.5	100%	q.f. bi. GARNET (PINK), MUSCOVITE LEUCOSOME w/ MINOR FeS ₂												
240.4	247.0	6.6	100%	Bs w/ SEVERAL FELDSPATHIC Bs INTERLAYERS. APPROX 90% Bs; 10% Bg.												
250.1	250.9	0.8	100%	q.f. bi. LEUCOSOME												
260.0	260.1	0.1	100%	GARNET (PINK) RICH q.f. LEUCOSOME												
252.7	253.2	0.5	100%	FELDSPATHIC Bg												
259.5	260.1	0.6	90%	q.f. MUSCOVITE, GRAPHITE, bi. LEUCOSOME. OPEN SPACE XL GROWTH												
261.7	262.5	0.8	100%	q.f. bi. GARNET (PINK) LEUCOSOME												
263.4	263.8	0.4	100%	q.f. SILLMANITE LEUCOSOME w/ MINOR bi												
264.0	264.2	0.2	100%	q.f. SILLMANITE LEUCOSOME												
264.8	265.0	0.2	100%	q.f. TOURMALINE LEUCOSOME												
265.1	265.7	0.6	100%	q.f. SILLMANITE LEUCOSOME												
267.1	267.7	0.6	100%	q.f. SILLMANITE, GARNET (PINK)												

SILICA FACES EXAMINED

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XRF

From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	From	To	Interval	Sample No.(s)	XRF Ppm S ₁	XRF Ppm W
268.4	268.9	0.5	100%	LEUCOSOME w/ MINOR bi. q.f. bi LEUCOSOME w/ MINOR TOURMALINE (BLACK) AND GARNET (PINK)												
271.8	273.1	1.3	100%	q.f. SILLMANITE, GARNET LEUCOSOME w/ MINOR bi												
276.3	280.7	4.4	72%	FELDSPATHIC Bt w/ THIN TOURMALINE (BLACK) LAMINAE i Bs INTERLAMINATIONS. TR FESs												
281.2	285.0	3.8	100%	q.f. GARNET (PINK), SILLMANITE MUSCOVITE LEUCOSOME							281.4	285.0	3.6	3046	45	4
291.2	294.2	3.0	100%	q.f. GARNET (PINK), MUSCOVITE LEUCOSOME w/ MINOR TOURMA- LINE (BLACK), bi SILLMANITE												
294.7	295.1	0.4	100%	q.f. TOURMALINE (BLACK), GARNET (PINK), MUSCOVITE, bi LEUCOSOME												
295.5	302.3	6.8	100%	q.f. GARNET (PINK), bi MUSCOVITE LEUCOSOME w/ MINOR SILLMANITE FIBROUS BLUE MINERAL												
302.3	302.9	0.6	100%	FELDSPATHIC Bt												
303.2	307.9	4.7	100%	q.f. bi GARNET (PINK), SILLMANITE MUSCOVITE LEUCOSOME w/ MINOR Bs INTERLAYERS												
311.8	313.5	1.7	100%	q.f. bi LEUCOSOME w/ NUMEROUS THIN Bs INTERLAYERS												
314.5	315.3	0.8	100%	q.f. GARNET (PINK), SILLMANITE, MUSCOVITE LEUCOSOME MINOR bi												
315.9	316.7	0.8	100%	q.f. SILLMANITE, bi GARNET (PINK) LEUCOSOME												
316.9	322.5	5.6	100%	q.f. SILLMANITE, GARNET (PINK), MUSCOVITE LEUCOSOME w/ MINOR bi							316.8	322.5	5.7	3047	45	4
325.5	336.2	10.7	79%	INTERLAYERED BIOTITE, GARNET, ALBITE SCHIST AND FELDSPATHIC BIOTITE GNEISS. APPROX. 70% Bs; 20% Bt; 10% q.f. bi GARNET (PINK) TRIM LEUCOSOMES												
341.0	342.6	1.6	100%	q.f. SILLMANITE LEUCOSOME w/ MINOR GARNET (PINK), bi MUSCOV- ITE, TOURMALINE (BLACK) & BLUE FIBROUS MINERAL												
344.1	344.6	0.5	100%	q.f. bi SILLMANITE LEUCOSOME												
346.1	347.9	1.8	100%	q.f. bi MUSCOVITE TOURMALINE (BLACK), GARNET (PINK) LEUCOSOME												
348.3	349.4	1.1	100%	q.f. bi MUSCOVITE LEUCOSOME												

See
Pace
Elevate?

LEUCOSOME
BEARING
BIOTITE
SCHIST

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AMPHIBOLITE GNEISS
 LEUCOSOME BEARING BIOTITE SCHIST

AMPHIBOLITE GNEISS

SILICA FILL
 ENCL.

From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	From	To	Interval	Sample No.(s)	PPM Sn	PPM W
349.4	350.0	0.6	100%	QUARTZ, FELDSPAR, GARNET (PINK), BIOTITE, AMPHIBOLITE GNEISS												
350.0	355.4	5.4	100%	q.f. bi LEUCOSOME w/ MINOR GARNET (PINK), TOURMALINE (BLACK), MUSCOVITE. SEVERAL THIN BS INTERLAYERS							349.6	355.6	6.0	3038	45	4
356.1	357.0	0.9	100%	q.f. bi GARNET (PINK), MUSCOVITE LEUCOSOME												
358.1	359.6	1.5	100%	q.f. bi, MUSCOVITE, TOURMALINE (BLACK), GARNET (PINK) LEUCOSOME w/ MINOR SILLIMANITE												
359.8	360.8	1.0	100%	MUSCOVITE - TOURMALINE RICH FELDSPATHIC BIOTITE SCHIST												
373.5	376.6	3.1	100%	BIOTITE, QUARTZ, FELDSPAR, AMPHIBOLITE? GNEISS.												
				375.8-376.3: q.f. bi GARNET (PINK) LEUCOSOME												
377.5	378.2	0.7	100%	BIOTITE GARNET (PINK), QUARTZ, FELDSPAR AMPHIBOLITE? GNEISS												
384.5	384.8	0.3	100%	q.f. SILLIMANITE LEUCOSOME w/ MINOR GARNET (PINK) AND BS INTERLAYERS												
387.5	387.8	0.3	100%	GARNET (PINK), q.f. bi, MUSCOVITE LEUCOSOME												
388.5	389.2	0.7	100%	q.f. bi, MUSCOVITE, TOURMALINE (BLACK) LEUCOSOME w/ MINOR FES. OPEN SPACE XL GROWTH												
407.1	407.2	0.1	100%	q.f. TOURMALINE (BLACK), bi LEUCOSOME												
407.9	408.3	0.4	100%	TOURMALINE (BLACK) BEARING FELDSPATHIC BIOTITE SCHIST												
408.8	409.2	0.4	100%	q.f. bi, MUSCOVITE, TOURMALINE (BLACK) LEUCOSOME												
410.2	411.2	1.0	100%	q.f. MUSCOVITE, bi, TOURMALINE (BLACK) LEUCOSOME w/ TOURMALINE LAMINAE NEAR BME												
415.3	415.9	0.6	100%	q.f. bi, MUSCOVITE LEUCOSOME w/ MINOR TOURMALINE (BLACK)												
449.7	451.1	1.4	100%	q.f. bi, MUSCOVITE, GARNET (PINK) LEUCOSOME w/ MINOR TOURMALINE (BLACK), OPEN SPACE XL GROWTH												
456.0	456.8	0.8	100%	CALC. - SILICATE? NO CANDY UNDER WY							456.0	456.6	0.6	3048	45	5
466.5	468.1	1.6	100%	q.f. bi, MUSCOVITE LEUCOSOME												

XRF

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From	To	Interval	Recovery %	Lithology	From	To	Structure	From	To	Mineralization/Alteration	XRF					
											From	To	Interval	Sample No.(s)	ppm Sn	ppm W
473.1	477.0	3.9	100%	q.f. bi LEUCOSOME w/ MINOR MUSCOVITE, GARNET (PINK). NUMEROUS THIN BS INTERLAYERS							474.0	476.1	2.1	3050	45	4
479.2	480.0	0.8	100%	q.f. bi MUSCOVITE LEUCOSOME w/ TR. TOURMALINE (BLACK) AND GARNET (PINK)												
480.6	481.2	0.6	100%	TOURMALINE (BLACK) BEARING FELDSPATHIC BIOTITE SCHIST												
503.6	504.2	0.6	100%	CALC-SILICATE? NO CAWO ₄ UNDER UV							503.8	507.5	3.7	3052	6	2
547.0	547.4	0.4	100%	FELDSPATHIC BIOTITE GNEISS												
547.5	547.8	0.3	100%	CALC-SILICATE? NO CAWO ₄ UNDER UV												
560.9	561.4	0.5	100%	GARNET (PINK), QUARTZ, FELDSPAR, BIOTITE GNEISS	560.9	561.4	q.f. bi GARNET REGMATIC DIKE ~20° to CORE AXIS									
566.3	566.9	0.6	100%	QUARTZ, FELDSPAR, BIOTITE GNEISS												
570.6	571.2	0.6	100%	q.f. SILLMANITE, GARNET (PINK) LEUCOSOME												
589.6	589.9	0.3	100%	CALC-SILICATE? NO CAWO ₄ UNDER UV												
592.0	592.4	0.4	100%	FELDSPATHIC BIOTITE GNEISS												
594.3	594.9	0.6	100%	FELDSPATHIC BIOTITE GNEISS												
596.4	597.0	0.6	100%	FELDSPATHIC BIOTITE GNEISS w/ MINOR GARNET (PINK) AND BS INTERLAYERS												
616.0	616.8	0.8	100%	CALC-SILICATE? NO CAWO ₄ UNDER UV												
625.5	626.4	0.9	95%	q.f. SILLMANITE, MUSCOVITE LEUCOSOME							625.5	626.5	1.0	3035	45	3
633.0	633.3	0.3	100%	q.f. SILLMANITE bi LEUCOSOME												
636.3	636.9	0.6	100%	q.f. bi SILLMANITE, MUSCOVITE LEUCOSOME												
637.2	637.7	0.5	100%	q.f. GARNET (PINK) bi SILLMANITE LEUCOSOME												
640.6	640.9	0.3	100%	QUARTZ FELDSPAR BIOTITE GARNET (PINK) GNEISS												
643.0	643.3	0.3	100%	FELDSPATHIC BIOTITE GNEISS												
645.3	646.1	0.8	100%	q.f. bi MUSCOVITE LEUCOSOME w/ BS INTERLAYERS												
648.0	648.2	0.3	100%	q.f. GARNET (PINK), bi LEUCOSOME												
662.4	663.6	1.2	100%	CALC-SILICATE? NO CAWO ₄ UNDER UV							662.7	663.9	1.2	3034	45	4
671.5	713.8	42.3	98%	INTERLAYERED FELDSPATHIC BIOTITE GNEISS AND BIOTITE QUARTZ FELDSPAR, GARNET (PINK), AUGIT SCHIST. NUMEROUS q.f. bi MUSCOVITE + GARNET LEUCOSOMES. OCCASIONAL CALC-SILICATE INTERLAYERS. APPROX. 70% BS. 4-44	671.5	713.8	FOLIATION ~80° to CORE AXIS. EXTENSIVE LOCAL DEFORMATION IN BS (KINK FOLDING ETC.). BS OFTEN EXHIBITS FRACTURING ~20° to CORE AXIS (APPARENTLY SCHIST									

SILICA FACIES EVIDENT?

q.f. GARNET, BIOTITE SCHIST

↑ ↓
 Int. Lith. BS

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																XRF	
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672.2	672.8	0.6	100%	CALC.-SILICATE? NO CANON UNDER UV													
682.7	683.6	0.9	100%	q.f. MUSCOVITE, GARNET (PINK)													
				b1 LEUCOSOME													
688.6	689.1	0.5	100%	CALC. SILICATE? NO CANON UNDER UV													
703.7	706.3	2.6	100%	QUARTZ FELDSPAR BIOTITE, GARNET (PINK), AMBLYBLE(?) SHELLS													
				705.1-705.4: q.f. bi GARNET LEUCOSOME													
				704.7: TOLMANITE LAMINAE													
713.8	734.1	20.8	100%	QUARTZ FELDSPAR BIOTITE, GARNET (PINK) GNEISS. DARK-MED. GRAY; MED-COARSELY XLN. OCCASIONAL q.f. bi ± GARNET (PINK) LEUCOSOMES. MINOR FES ₂ & FRACTURE FILLINGS AND DISSEMINATIONS.	713.8	734.1	FOLIATION ~90° TO CORE AXIS				716.8	722.4	5.6	3033	45	775	
714.5	715.2	0.7	100%	q.f. bi, MUSCOVITE LEUCOSOME w/ MINOR GARNET (PINK)													
715.6	716.3	0.6	100%	q.f. bi, MUSCOVITE LEUCOSOME													
730.4	730.5	< 0.1	100%	CHLORITE LAMINAE (POSSIBLE MARBLE?)													
732.3	733.0	0.7	100%	Bs INTERLAYER													
734.1	753.5	19.4	95%	BIOTITE, QUARTZ, FELDSPAR, GARNET (PINK), AUGEN SCHIST w/ NUMEROUS THIN, FELDSPATHIC BS INTERLAYERS. SEVERAL q.f. bi ± SILLIMANITE ± GARNET (PINK) ± MUSCOVITE LEUCOSOMES. APPROX. 80% Bs; 5% BG; 15% LEUCOSOMES. MINOR FES ₂ OCCURS AS FRACTURE FILLINGS, THIN LAMINAE AND DISSEMINATIONS. MINOR CALC-SILICATE	734.1	753.5	FOLIATION ~80°-90° TO CORE AXIS w/ LOCAL UNFOLIATIONS.				746.4	752.9	6.5	3032	7	3	
737.5	738.9	1.4	100%	q.f. bi, SILLIMANITE, GARNET (PINK) LEUCOSOME													
				737.7-738.0: BS INTERLAYER													
				737.5-737.6: BS INTERLAYER													
744.6	744.9	0.3	100%	q.f. bi, GARNET (PINK), MUSCOVITE LEUCOSOME.													
748.5	749.2	0.7	100%	q.f. bi, SILLIMANITE, MUSCOVITE LEUCOSOME													
753.5	779.5	26.0	100%	"SANDY MUSH" GNEISS. QUARTZ, FELDSPAR, BIOTITE ± GARNET (PINK), AUGEN GNEISS. LIGHT GRAY; MED-COARSELY XLN. NUMEROUS THIN q.f. bi ± GARNET (PINK) ± MUSCOVITE LEUCOSOMES.	753.5	779.5	FOLIATION ~80°-90° TO CORE AXIS.				766.6	769.1	2.5	3067	45	5	
				779.5 TD													

INTERLAYERED BS

BG

BIOTITE, GARNET, AUGEN SCHIST

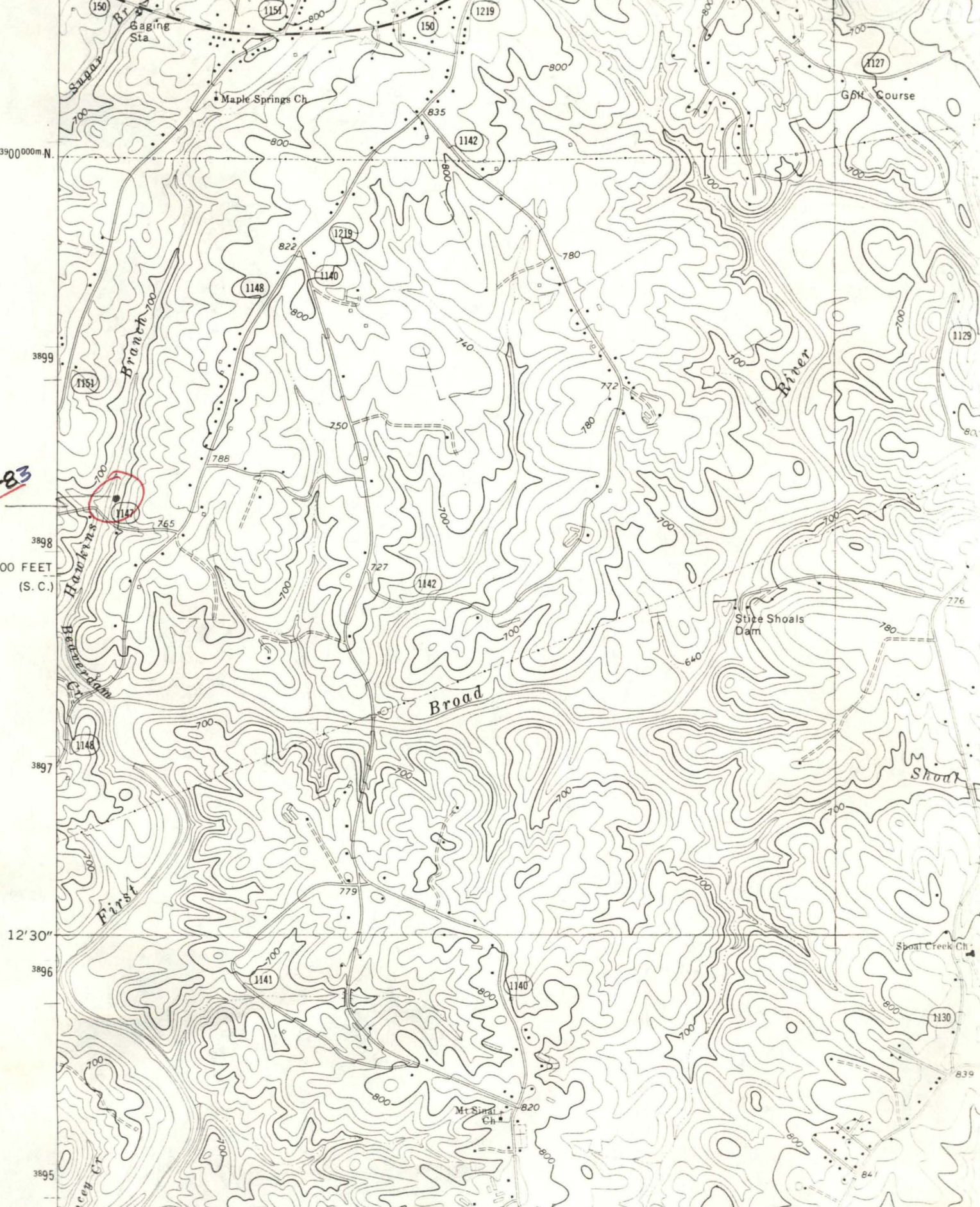
779.5 TD

654162500
BY 1:62500

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(BLACKSBURG NORTH)
7.5 QUAD

81° 37' 30" BOILING SPRINGS 2.5 MI. 445000m E. SHELBY 4.9 MI. 1 820 000 FEET (S. C.) 446 35' 47



V-C-1-83

810 000 FEET
(S. C.)

12' 30"

3895