Hole Name: TOLA MINE

ID: 857 MN-C-4-80

Date: 1980 GN-CS-1

Location: E. MONTGOMERY CO. 351823 / 794657 EL=660'

DRILL HOLE INCLINED AT 60°

LITHOLOGIC LOG BY NC GEOLOGICAL SURVEY

Depth	% Recovery	Retained	Description
0			
10			
20			
30			
40			BADLY WEATHERED LT. GREENISH VOLCANICLASTIC PYROCLASTIC
50			
60			APPARENTLY LEACHED OF CALCITE LEAVING PORE SPACES (MODERATELY WEATHERED RK.)
70			
80			STILL SOMEWHAT WEATHERED RK, BUT SOME CALCITE REMAINS (STILL POROUS RK).
90			
100			
110			AT 108, RK IS MUCH FRESHER -- LT. GREEN-GRAY (FELSIC-SLIGHTLY INTERMEDIATE) VOLCANICLASTIC, PRIMARILY LITHIC TUFF OR VOL. SS (I.E. CALCITE NOT LEACHED) (ZONES OF XL-RICH MATERIAL ALTERNATE W/MAT W/NO XLS)
120			ZONE OF DENSE VOL. MAT. W/ V. SMALL AMT. CALCITE
130			RK. AS ABOVE AT 108'
140			5' ZONE OF LEACHED RK. AGAIN
150			
160			RK. LIKE THAT AT 108'

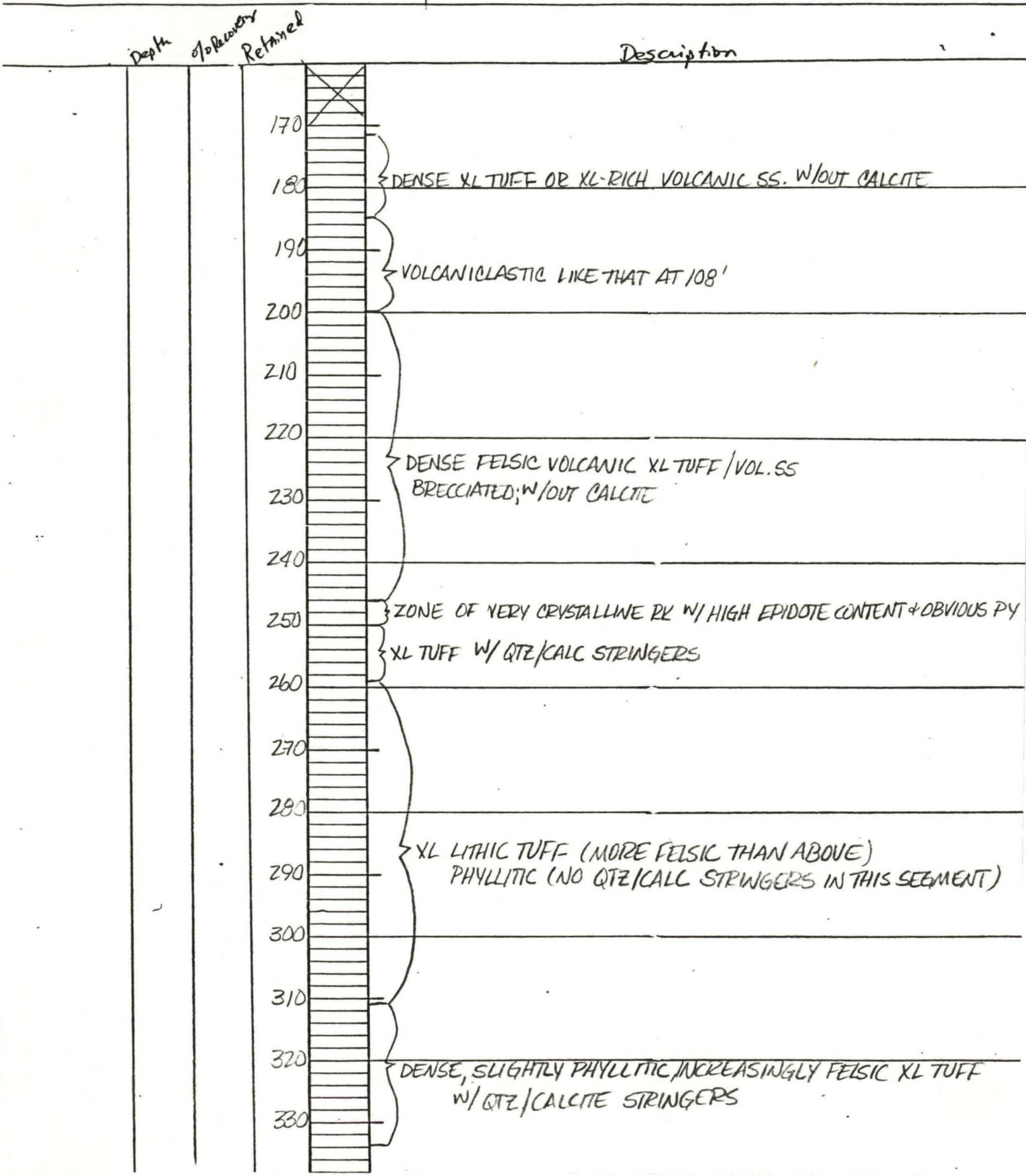
Hole Name: TOLA MINE

ID: 857

Date:

Sampled by: J. U.S. BUREAU

Location: E. MONTGOMERY CO.



Hole Name: TOLA MINE

ID: 857

Site:

Location: E. MONTGOMERY CO.

Depth	% Recovery	Retained	Description
334			
340			
350			BRECCIATED FELSIC XL TUFF (LIKE 259-311)
360			QTZ. VEIN
370			
380			
390			FELSIC XL TUFF (PHYLLITIC) W/ CALC STRINGERS
400			
410			
420			
430			LITHIC XL TUFF W/ BRECCIATED
440			
450			
460			
470			
480			NOTICEABLY DARKER (DARK RED-GRAY), LITHIC TUFF (PHYLLITIC & HIGHLY BRECCIATED)
490			
500			CONTINUED...

Hole Name: TOLA MINE

ID: 857

Site:

Sampled by: U.S. BUREAU

Location: E. MONTGOMERY CO.

Depth	% Recovery Retained	Description
510		
520		CONTINUED FROM ABOVE
530		
540		
550		MORE UNIFORMLY GRAY & DENSE XL LITHIC TUFF W/ QTZ. SWIGGERS (SMALLER LITHO FRAGS)
560		
570		
580		
590		
600		SAME GRAY-RED PHYLLITIC TUFF AS 441-541 W/ SOME ZONES OF LESS BRECCIATED, DENSER GRAY TUFF
610		
620		
630		
640		
650		A MORE FELSIC (IE. LIGHTER GREEN AS OPPOSED TO GRAY ABOVE LITHIC TUFF THAT IS PHYLLITIC
660		
670		A MORE DENSE, FELSIC TUFF (LT. GREEN) -- SOMEWHAT PHYLLITIC W/ ZONES OF XL TUFF (REL. LITTLE BRECCIATION) CONTINUED...

Name: TOLA MINE

T.D: 857

Date:

Location: E. MONTGOMERY CO.

Depth	% Recovery	Retained	Description
680			AS ABOVE - - DESCRIBED @ 665
690			
700			
710			
720			
720			
740			
750			
760			
770			
780			
790			
800			
810			
820			
830			
890			▷ SAME TO T.D. 857'

SPLIT SHEET FOR GNCS-1

MN-C-4-80

SAMPLE #	INTERVAL	THICKNESS (FT.)
1	115-120	5
2	120-125	5
3	125-130	5
4	170-175	5
5	175-180	5
6	180-185	5
7	200-205	5
8	205-210	5
9	210-215	5
10	215-220	5
11	220-225	5
12	225-230	5
13	230-235	5
14	235-240	5
15	240-245	5
16	245-250	5
17	250-255	5
18	255-260	5
19	260-265	5
20	285-290	5
21	290-295	5
22	295-300	5
23	300-305	5
24	305-310	5
25	310-315	5

SPLIT SHEET FOR GNCS-1 2 of 5

SAMPLE #	INTERVAL	THICKNESS (FT.)
26	315 - 320	5
27	320 - 325	5
28	325 - 330	5
29	330 - 335	5
30	335 - 340	5
31	340 - 345	5
32	345 - 350	5
33	350 - 355	5
34	355 - 359	4
35	359 - 362	3
36	362 - 366	4
37	366 - 370	4
38	370 - 375	5
39	375 - 380	5
40	380 - 385	5
41	385 - 390	5
42	390 - 395	5
43	395 - 400	5
44	400 - 405	5
45	405 - 410	5
46	410 - 415	5
47	415 - 420	5
48	420 - 425	5
49	425 - 430	5
50	430 - 435	5

SPLIT SHEET FOR GNCS-1

SAMPLE #	INTERVAL	THICKNESS (FT.)
51	435-440	5
52	440-445	5
53	445-450	5
54	450-455	5
55	455-460	5
56	460-465	5
57	480-485	5
58	485-490	5
59	490-495	5
60	495-500	5
61	500-505	5
62	520-525	5
63	540-545	5
64	545-550	5
65	550-555	5
66	555-560	5
67	560-565	5
68	580-585	5
69	600-605	5
70	620-625	5
71	640-645	5
72	645-650	5
73	650-655	5
74	655-660	5
75	665-670	5

SAMPLE #	INTERVAL	THICKNESS (FT.)
76	670-675	5
77	675-680	5
78	680-685	5
79	685-690	5
80	690-695	5
81	695-700	5
82	700-705	5
83	705-710	5
84	710-715	5
85	715-720	5
86	720-725	5
87	725-730	5
88	730-735	5
89	735-740	5
90	740-745	5
91	745-750	5
92	750-755	5
93	755-760	5
94	760-765	5
95	765-770	5
96	770-775	5
97	775-780	5
98	780-783	3
99	783-788	5
100	788-792	4

SPLIT SHEET FOR GNCS-1 5 of 5

SAMPLE #	INTERVAL	THICKNESS (FT.)
101	792-796	4
102	796-800	4
103	800-805	5
104	805-810	5
105	810-815	5

Blue Ridge Analytical Laboratory, Inc.

Post Office Box 7545 • Charlottesville • Virginia • 22906 • 804-973-4353

April 16, 1980

Job No. 791

U.S. Borax & Chemical Corp.
P.O. Box 10831
Knoxville, Tenn. 37919

Attn: Harry Dunn

Certificate of Analysis

There are 19 rock samples analyzed as follows:

Sample Number	ppm Au	Sample Number	ppm Au
GNCS-1-1	<.02	GNCS-1-11	<.02
GNCS-1-2	<.02	GNCS-1-12	.98
GNCS-1-3	<.02	GNCS-1-13	.03
GNCS-1-4	.03	GNCS-1-14	.02
GNCS-1-5	.13	GNCS-1-15	.08
GNCS-1-6	<.02	GNCS-1-16	.04
GNCS-1-7	.04	GNCS-1-17	.09
GNCS-1-8	.03	GNCS-1-18	.26
GNCS-1-9	1.80	GNCS-1-19	.07
GNCS-1-10	<.02		

DRILL CORE

Respectfully submitted:

Donald W. Foss
President

DWF:jaw

Blue Ridge Analytical Laboratory, Inc.

Post Office Box 7545 • Charlottesville • Virginia • 22906 • 804-973-4353

May 28, 1980

Job No. 828

U.S. Borax & Chemical Corp.
P.O. Box 10831
Knoxville, TN 37919

Attn: Harry Dunn

Certificate of Analysis

Samples submitted by Bill Szymanski; 22 rocks assayed as follows:

Sample Number	ppm Au	Sample Number	ppm Au
GNCS-1-20	.04	GNCS-1-31	<.02
GNCS-1-21	<.02	GNCS-1-32	.02
GNCS-1-22	<.02	GNCS-1-33	<.02
GNCS-1-23	.02	GNCS-1-34	<.02
GNCS-1-24	<.02	GNCS-1-35	.04
GNCS-1-25	<.02	GNCS-1-36	<.02
GNCS-1-26	.02	GNCS-1-37	<.02
GNCS-1-27	<.02	GNCS-1-38	.05
GNCS-1-28	<.02	GNCS-1-39	.02
GNCS-1-29	<.02	GNCS-1-40	<.02
GNCS-1-30	.04	GNCS-1-41	.04

Respectfully submitted:

Donald W. Foss

Donald W. Foss
President

DWF:jaw

Blue Ridge Analytical Laboratory, Inc.

Post Office Box 7545 • Charlottesville • Virginia • 22906 • 804-973-4353

June 12, 1980

Job No. 835

Mr. Harry Dunn
U.S. Borax & Chemical Corp.
P.O. Box 10831
Knoxville, TN 37919

Certificate of Analysis

There are 30 rocks assayed as follows:

Sample Number	ppm Au	Sample Number	ppm Au
GNCS-1-42	<.02	GNCS-1-57	<.02
GNCS-1-43	<.02	GNCS-1-58	<.02
GNCS-1-44	<.02	GNCS-1-59	<.02
GNCS-1-45	<.02	GNCS-1-60	<.02
GNCS-1-46	<.02	GNCS-1-61	<.02
GNCS-1-47	<.02	GNCS-1-62	<.02
GNCS-1-48	<.02	GNCS-1-63	<.02
GNCS-1-49	.02	GNCS-1-64	<.02
GNCS-1-50	<.02	GNCS-1-65	<.02
GNCS-1-51	<.02	GNCS-1-66	<.02
GNCS-1-52	<.02	GNCS-1-67	<.02
GNCS-1-53	<.02	GNCS-1-68	<.02
GNCS-1-54	<.02	GNCS-1-69	<.02
GNCS-1-55	<.02	GNCS-1-70	<.02
GNCS-1-56	<.02	GNCS-1-71	<.02

Respectfully submitted:

Donald W. Foss
President

DWF:jaw

Blue Ridge Analytical Laboratory, Inc.

Post Office Box 7545 • Charlottesville • Virginia • 22906 • 804-973-4353

June 12, 1980

Job No. 839

U.S. Borax & Chemical Corp.
P.O. Box 10831
Knoxville, TN 37919

Attn: Harry Dunn

Certificate of Analysis

There are 34 rocks analyzed as follows:

Sample Number	ppm Au	Sample Number	ppm Au
GNCS-1-072	<.02	GNCS-1-089	.20
GNCS-1-073	.02	GNCS-1-090	.13
GNCS-1-074	.05	GNCS-1-091	.10
GNCS-1-075	.04	GNCS-1-092	.03
GNCS-1-076	.15	GNCS-1-093	.08
GNCS-1-077	.08	GNCS-1-094	.08
GNCS-1-078	.08	GNCS-1-095	.06
GNCS-1-079	.13	GNCS-1-096	.05
GNCS-1-080	.13	GNCS-1-097	.08
GNCS-1-081	.11	GNCS-1-098	.08
GNCS-1-082	.05	GNCS-1-099	.08
GNCS-1-083	.03	GNCS-1-100	.08
GNCS-1-084	.11	GNCS-1-101	.06
GNCS-1-085	.19	GNCS-1-102	.03
GNCS-1-086	.08	GNCS-1-103	.05
GNCS-1-087	.09	GNCS-1-104	<.02
GNCS-1-088	.18	GNCS-1-105	.11

Respectfully submitted:

Donald W. Foss
President

DWF:jaw

the school. The Russell prospect is 200 feet southwest of the Henderson shaft. The property is 1.3 miles south of the Coggins mine.

Workings: The Russell prospect is a trench 50 feet long, 15 feet wide and 6 feet deep filled with water to within 5 feet of the surface. The West end of the trench opens into a small creek. The trench is cut parallel to the country rock which strikes N. 45° E. and dips 75° NW.

A vertical shaft, 10 feet by 10 feet, represents the Henderson mine. The shaft is filled with water to within 6 feet of the surface. A limited amount of dump material remains. The shaft was dewatered in 1957, but no further development was carried out.

Geology: The prospects were opened in gray argillite which is iron stained, particularly on cleavage surfaces. Milky vein quartz and diabase are on the dumps. The ore consists of 1/8 in. wide veinlets of subhedral galena, sphalerite and pyrite in vein quartz. Chalcopyrite is sporadically present and chalcocite(?) forms thin coatings on other minerals. Actinolite and chlorite in many cases form narrow borders along margins of the veinlets. Galena contains inclusions of pyrite. Small amounts of pyrite, chalcopyrite and pyrrhotite are disseminated through the argillite. Malachite and azurite form thin crusts on the surface of weathered samples. Some bleached portions of argillite primarily contain galena and reddish-brown sphalerite.

Iola Mine (AuM)

Location: The Iola mine is in eastern Montgomery County, 7.2 miles southeast of Troy and 2.2 miles northwest of Candor. The mine is reached by travelling west on SR 1519 from U. S. Highway 220. Turn right onto a dirt road 0.1 mile west of SR 1561. The mine is north of the house at the end of this dirt road and is on the Dickens property.

Workings: The Iola mine was discovered in 1901 and was worked until 1916. Little remains of the original workings, and the dumps have been completely removed. The main shaft, located 75 yards behind the house, is filled with trash, and the other two shafts, northeast of the main shaft, were inaccessible.

There were numerous veins on the property, and the Iola vein was developed 2,000 feet along its strike and 650 feet down dip. It has been estimated that in excess of $900,000 in gold was produced from the Iola mine, primarily from 1901 through 1915. Mill recoveries by amalgamation and cyanidation ranged from 0.43 to 2.50 ounces of gold per ton and averaged about 0.50 ounce.

Geology: The mine was opened on a quartz vein enclosed by mafic crystal tuff. The vein strikes northeast and dips 45° NW. and contains free gold. Coastal Plain sediments overlie the tuff, and the late discovery of this deposit has been attributed to this sedimentary cover (Pardee and Park, 1948, p. 82). Thin slabs of yellow-and red-stained sericite phyllite indicate shearing of the country rock. No metallization was noticed other than tiny cubes of pyrite disseminated through the tuff.

The main vein averages about 3 feet in width for a distance of 2,000 feet. Several ore shoots were mined, one of which was 100 to 150 feet long and 350 feet deep. Pardee and Park (1948, p. 83) describe samples of the vein rock as fine grained, some of which are "banded quartz containing shreds of chlorite that represent unreplaced parts of the country rock, some are pearly-gray flinty-appearing quartz containing chalcedony that has filled cavities, and some are banded pink to red rock made up of sugary quartz and later calcite." The veins have been crossed by diabase dikes and are faulted.

Moratock Mine (AuM)

Location: The Moratock mine is in western Montgomery County, 9.5 miles southwest of Troy and 7.5 miles northwest of Mount Gilead. The mine is reached by travelling 0.75 mile east on N. C. Highway 24-27 from the intersection with SR 1150. Turn left (north) onto a logging road just east of the State Highway Commission quarry and follow the logging road for approximately 0.25 mile to the mine.

Workings: The mine was first operated in 1892 as an open quarry and one shallow shaft was also sunk. A series of open trenches remains, the largest of which is 200 feet long, 25 feet wide and 25 feet deep. Numerous small dumps are scattered about. Mining was abandoned because of the low grade of ore (less than $1.00 per ton).

Geology: The mine was opened in a white felsic lithic-crystal tuff that is sheared in places. Small quartz veins cut through the tuff and contain gold. Chalcopyrite, malachite and pyrite are present in small amounts.

Morris Mountain Mine (Davis or Dutton) (AuM)

Location: The Morris Mountain mine is located 0.7 mile northwest of Eldorado and 0.9 mile southwest of Coggins mine. The mine is located by travelling 0.9 mile north on N. C. Highway 109 from Eldorado (intersection of SR 1302 and N. C. Highway 109). Turn right onto the property of Mr. Turner. Follow a logging road behind Mr. Turner's house eastward around the mountain. Continue for approximately 1 mile and pass an old lumber mill on the left. The mine is located 150 feet up the mountain from the mill. (There may be an easier way to get to this mine). The mine is on the property of Mrs. Boatride of Troy. The Eldorado mine is 1 mile southeast of the Morris Mountain mine.

Workings: A trench 100 feet long, 15 feet wide, and 30 feet deep was opened on the property, and a 10 foot by 10 foot shaft is located near the north end of the trench. The shaft is filled with water to within 1 foot of the top. The trench is cut oblique to the strike of the

Bigar
Cem
Cems
SOUTHERN
1500
621
Reedy
Gold
Twin
Trailer Park
1572
1560
Fork
Gas
(CANDOR) 5054 I SW
728
Branch
1561
Fish
MN-C-4-80
1519
220A
733
Candor Cem
Macedonia Ch
NORMAN 10 MI.
614
Creek
1579
Candor
Trailer Park
E S T
718
1518
742
Cem
17'30"
704
Community Ch
Cem
1562
Creek
McCullums Pond
1516
711
708
666
708
696
ROCKINGH
Biscoe 7 1/2 Quad