



Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
1	0	30.0	30.0	31.4	2.65
	30.0	140.0	110.0	32.4	0.51
	140.0	188.8	48.8	34.8	4.52

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
2	0	50.0	50.0	25.4	4.14
	5	7.8	50.0	42.2	3.02
	30.0	115.1	85.1	30.9	1.90
	115.1	180.0	64.9	30.9	0.29
	180.0	216.1	36.1	30.7	1.35

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
4	5	8.7	27.7	19.0	2.45
	16.0	32.0	16.0	29.6	1.08
	32.0	42.0	10.0	31.1	1.41
	42.0	72.0	30.0	28.9	1.10
	72.0	132.0	60.0	35.0	0.31
	132.0	190.0	58.0	35.0	2.14
	190.0	242.8	52.8	32.2	7.66

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
5	0	56.0	56.0	23.2	4.00
	56.0	126.0	70.0	34.8	0.27
	126.0	174.8	48.8	32.1	2.13

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
6	0	155.4	155.4	32.1	0.20
	155.4	184.8	29.4	39.5	.79
	184.8	215.3	30.5	36.6	.15

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
13	0	76.2	76.2	32.6	0.34
14	0	32.4	32.4	33.8	.82
	32.4	45.1	12.7	29.9	.28
	45.1	81.9	36.8	34.3	.66

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
20	0	24.8	24.8	20.6	4.08
	24.8	69.3	44.5	22.7	.52

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
24	0	49.8	49.8	19.3	4.44
	5	5.4	49.0	43.6	24.8
	49.8	124.5	74.7	31.8	0.41

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
26	5	68.0	68.0	13.0	8.70
	68.0	220.0	152.0	19.3	9.6
	220.0	282.4	62.4	6.1	4.9

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
27	0	82.0	82.0	3.0	7.1
	5	90.0	115.0	25.0	19.5
	112.0	250.2	138.2	28.6	9.2
	250.2	310.4	60.2	17.3	7.2

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
28	0	44.5	44.5	22.3	7.4
	44.5	209.0	164.5	20.4	8.4

Drill hole	Feet			Percent	
	From	To	Length	Kyanite	Fe ₂ O ₃
30	0	107.0	107.0	15.9	7.0
	107.0	174.9	67.9	31.5	5.5
	174.9	256.3	81.4	20.9	7.5

Assay data taken from U. S. Bureau of Mines
Reel: Inv. 5075. Sample intervals are near-
ranged to correspond more closely to rock types.
Drill hole samples are all core samples, except
samples indicated by letter 's', which are sludge
samples

VERTICAL SECTIONS OF DIAMOND-DRILL HOLES, LOOKING NORTHEAST

EXPLANATION

- Talus
- Quartz vein
- Massive kyanite
- Coarse kyanite quartzite
- Kyanite quartzite at surface
- Weathered—Unweathered
- Kyanite quartzite in diamond-drill hole
- Accessory minerals: Muscovite, shown by dashed line pattern; Pyrite, shown by dots in unweathered rock; Limonite, shown by dots in weathered rock
- Kyanite-mica schist and gneiss

EXPLANATION

- Dashed line
- Mostly inferred from topography
- Pegmatite
- Hornblende gneiss
- Massive kyanite
- Coarse kyanite quartzite
- Gneissic kyanite quartzite
- Kyanite-mica schist and gneiss
- Limit of outcrop
- Outline of area of tilted ledges and abundant flow
- Contact
- Inferred fault
- Syncline
- Plunge of minor anticline
- Plunge of minor syncline
- Plunge of fold axes
- Strike and dip of foliation
- Bearing and plunge of lineation
- Strike and dip of foliation and plunge of lineation
- Strike and dip of joints
- Strike of vertical joints
- Bulldozer trench
- Hand-dug trench
- Diamond-drill hole
- Trench and drill holes by U. S. Bureau of Mines

Topography north of parking space mapped by U. S. Bureau of Mines; south of parking space mapped by U. S. Geological Survey

INTEGRAL GEOLOGICAL SURVEY, WASHINGTON, D. C.

Geology and drill-core logging by G. H. Espenshade and D. B. Potter, 1951; Diamond drilling by U. S. Bureau of Mines, 1949-50

GEOLOGIC MAP AND SECTIONS OF WILLIS MOUNTAIN, BUCKINGHAM COUNTY, VIRGINIA

