

OWNER: U. S. Forest Service (Flatwoods #2)
DRILLER: Yeary Drilling Co.
COUNTY: Wise (Coeburn)

VDMR: 2026
WWCR: 19
TOTAL DEPTH: 802'

GEOLOGIC LOG

Depth in feet

0-10	Sand - very-light-tan, fine-grained, well-sorted; with much very-light-tan clay
10-20	" with few fine quartz pebbles and slight iron-oxide stain
20-30	Orthoquartzite - white- to buff, medium-grained, conglomeratic, weathered; some light-tan clay
30-40	" with coal and gray clay; trace of pyrite
40-50	Clay - gray with sandstone and coal fragments; trace of dark-gray siltstone
50-60	Orthoquartzite - white, fine-grained, well sorted; medium-gray, micaceous siltstone; some coal and bedded siderite
60-70	" no coal
70-80	" trace of coal, decrease in siltstone
80-90	Orthoquartzite - white, fine-grained, well-sorted with some siderite and coal fragments
90-100	"
100-110	"
110-120	" trace coal and siderite
120-130	" trace manganese and coal
130-140	" "
140-150	" "
150-160	" " sand stained with iron-oxide from fragments of drill bit
160-170	Lithic subgraywacke - light-gray, fine-grained, well-sorted angular, with some intergranular coal and mica; medium- to dark-gray, carbonaceous siltstone; trace mica

170-180	Siltstone - medium-gray, fissile, carbonaceous in part; trace mica
180-190	"
190-200	"
200-210	"
210-220	"
220-230	" with light-gray, very-fine-grained interlaminated sandstone
230-240	" "
240-250	Siltstone - medium-gray, sandy, carbonaceous; some coal fragments
250-260	"
260-270	Shale - medium-gray, fissile, micaceous
270-280	" with some siltstone
280-290	Lithic subgraywacke - very-light-gray, very-fine-grained, well-sorted, angular; medium- to dark-gray, carbonaceous shale; trace of coal
290-300	" trace mica and siderite
300-310	" "
310-320	" "
320-330	Subgraywacke - very-light-gray, fine-grained, well-sorted, micaceous; trace of dark-gray siltstone
330-340	Subgraywacke - light-gray, fine-grained, poorly sorted, very micaceous; dark-gray sandy siltstone
340-350	Siltstone - medium- to dark-gray, micaceous, carbonaceous
350-360	"

360-370	Shale - medium- to dark-gray, slightly micaceous; trace interbedded siltstone
370-380	" trace sandstone and coal
380-390	"
390-400	"
400-410	Sandstone and siltstone - light-gray, fine-grained, argillaceous subgraywacke; medium-gray, micaceous, carbonaceous siltstone; trace of siderite; some sandstone contains coal and siderite fragments
410-420	" little siltstone
420-430	" "
430-440	Siltstone - medium- to dark-gray, micaceous, slightly carbonaceous
440-450	" with some light-gray sandstone
450-460	"
460-470	"
470-480	" with some coal
480-490	" with light-gray, very fine-grained sandstone
490-500	Shale and sandstone - very-dark-gray, micaceous shale, and light-gray, very-fine-grained subgraywacke; trace of coal
500-510	"
510-520	Coal - vitreous and durane, with siderite and some dark-gray siltstone and subgraywacke
520-530	Siltstone and sandstone - dark-gray, micaceous siltstone and shale with white, very fine-grained orthoquartzite; some coal
530-540	" only 10 percent orthoquartzite
540-550	" "
550-560	" only trace of orthoquartzite

560-570	Limestone and shale - light-tannish-gray, argillaceous calcilutite, and black- to dark-gray shale; some medium- to dark-gray siltstone, coal
570-580	Subgraywacke - light- to medium-gray, very-fine-grained, argillaceous, micaceous; some black shale, dark-gray siltstone, siderite, and coal
580-590	"
590-600	"
600-610	Sandstone - light-gray, very-fine-grained, subgraywacke and lithic subgraywacke; trace coal, siltstone, and black shale
610-620	Sandstone, siltstone, shale - white, fine-grained orthoquartzite and medium-gray, subgraywacke; medium-gray siltstone; black shale
620-630	Subgraywacke - light- to medium-gray, fine-grained, argillaceous; siltstone and shale
630-640	"
640-650	"
650-660	"
660-670	"
670-680	"
680-690	"
690-700	Subgraywacke - light-gray, fine-grained, micaceous, argillaceous; some black shale
700-710	" some siltstone
710-720	" "
720-730	" "
730-740	" "

740-750	Subgraywacke - light-gray, fine-grained, micaceous, argillaceous; some black shale, some siltstone, trace limestone and coal
750-760	Siltstone - medium-gray, micaceous, arenaceous; few coal and black shale fragments
760-770	" more coal
770-780	Lithic subgraywacke - very-light-gray, very-fine-grained, siltstone and shale
780-790	"
790-800	"
800-802	No Sample

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
Lee Formation	Pennsylvanian

Virginia Division of Mineral Resources
T. M. Gathright, Geologist
November 28, 1967