INTERVAL SHEET

Page 1 of 1

VDMR Well No: 1812

Date rec'd: 3/23/61

Sample Interval: from 0 to: 50.0'

PROP: Pound Dam Site C
Hole #1

Number of samples: 11

COMP: Watkins and Henry (U. S. Corps of Engr.)

Total Depth: 50.00 feet

COUNTY: Dickenson

Oil or Gas: Water: Exploratory: X

From-To	From-To	From-To	From-To
0 - 5	-	-	-
5 - 7.8	-	-	-
7.8 - 9.4	-	-	-
9.4 - 14.4	-	-	-
14.4 - 19.4	-	-	-
19.4 - 24.4	-	-	-
24.4 - 29.4	-	-	-
29.4 - 34.4	-	-	-
34.4 - 39.4	-	-	-
39.4 - 44.4	-	-	-
44.4 - 50.0	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

County: Dickenson
VDMR Well No. 1812

Well: Proposed Pound (Bartlick) Dam, Site C, hole 1
Farm:
Driller: Watkins and Henry (U. S. Corps of Engr., contractor)
Location: Haysi quadrangle - approximate UTM, 380900 m. E and 4121840 m. N; about 3.5 miles northwest of Haysi and adjacent to the Pound River 1.6 miles west of its confluence with Russell Fork of the Big Sandy River
Elevation: 1201.66 feet
Total depth: 50.00 feet
Started drilling: 4/17/40 Completed Drilling: 4/17/40
Sample description by: R. S. Good, Virginia Division of Mineral Resources, 2/14/67
References: U. S. Engineer Office, Huntington, W. Va., Report of Core Boring, 4/17/40 and Design Memorandum No. 3 Geology and Soils (2 volumes) for Ohio River Basin Pound Reservoir Project, U. S. Corps of Engineers, Huntington, W. Va., 1959.

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Formation (and remarks)
0.0-50.0	50	Norton Formation: composed of siltstone and sandstone with siderite grains at the base of the sandstone

County: Dickenson
VDMR Well No. 1812

GEOLOGIC LOG

Depth (feet)	Thickness (feet)	Description
0.0-7.8	7.8	Sandstone: light gray, massive; angular to subangular quartz, (70-80 percent), matrix (20-30 percent), of feldspar, muscovite, biotite, and chlorite with detrital coal in bituminous partings; limonite stained joint at 0.3'
7.8-9.4	1.6	Sandstone: similar to interval 0.0-7.8 except with up to 20 percent brown siderite clasts, some of which are ovoid elongated lenticur and discoid in shape, some of the lenses are discs are up to 0.25 x 25.0 mm
9.4-50.0	40.6	Siltstone: black to dark gray; fine sandy laminae; white powdery jarosite at 48.6'

County: Dickenson
VDMR Well No. 1812

GEOLOGIC LOG

Depth (feet)	Thickness (feet)	Description
0.0-7.8	7.8	Sandstone: light gray, massive; angular to subangular, quartz, (70-80 percent), matrix (20-30 percent) of feldspar, muscovite, biotite, and chlorite with detrital coal in bituminous partings; limonite-stained joint at 0.3'
7.8-9.4	1.6	Sandstone: similar to interval 0.0-7.8 except with up to 20 percent brown siderite clasts, some of which are ovoid, elongated, lenticular, and discoid in shape; some of the lenses are discs are up to 0.25 x 25.0 mm
9.4-50.0	40.6	Siltstone: black to dark-gray; fine, sandy laminae; white, powdery jarosite at 48.6'

UNITED STATES ENGINEER OFFICE
HUNTINGTON, W. VA.
OPERATION DIVISION
SURVEYS SECTION

Date 4/17/40

REPORT OF CORE BORING

Sheet 1 of 3

POUND

Project Proposed ~~Pittsburg~~ Dam, Site "C"

VDMR Well No. 1812

Hole No. 1 Dia. 2-1/8" Location See Plans

Date started 4/17/40 Completed 4/17/40

Driller Watkins and Henry Inspector Johnson and Davis

Type of drilling equipment used U. S. E. D. Core Drill

From Elev. 1201.66 To Elev. 1183.00 on this page.

Elev. of top of Hole	1201.66	Plan depth of Hole	50.00'
Elev. of top of rock	1201.66	Total overburden drilled	0.00'
Elev. bottom of Hole	1151.66	Total rock drilled	50.00'
Elev. of ground water	None	Total rock recovered	50.00'
Elev. of water lost	None	Total depth of Hole	50.00'
Elev. water regained	None	Deviation from plan depth	None
Number of Core Boxes	3		
Number of jar samples	None		

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
0.00	1201.66			Top of Rock			Top of Hole
				Med. fine Gray and brown sandstone with thin coal seams	2:00	1	
9.39	1192.27						Change
				Med. hard dark gray shale with sandstone laminations	5:00	1	
18.66	1183.00						

UNITED STATES ENGINEER OFFICE
HUNTINGTON, W.VA.
OPERATION DIVISION
SURVEYS SECTION

Date 4/17/40

REPORT OF CORE BORING

Sheet 2 of 3

Hole No. 1 From El. 1183.00 To El. 1155.00 on this page.

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
18.66	1183.00					1	Bottom Box 1
19.10	1182.56						
				Med. hard dark gray shale with sandstone laminations	5:00	2	
36.37	1165.29						Change
						2	
38.34	1163.32			Hard dark gray shale			Bottom Box 2
					4:25		
						3	
46.66	1155.00						

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HUNTINGTON, W.VA.
OPERATION DIVISION
SURVEYS SECTION

REPORT OF CORE BORING

Date 4/17/40

Sheet 3 of 3

Hole No. 1 From El. 1155.00 To El. 1151.66 on this page.

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
46.66	1155.00						
				Hard dark gray shale	4:25	3	
50.00	1151.66						Bottom of Hole

County: Dickenson
VDMR Well No. 1812

Well: Proposed Pound (Bartlick) Dam, Site C, hole 1
Farm:
Driller: Watkins and Henry (U.S. Corps of Engr., contractor)
Location: Hays: quadrangle – approximate UTM, 380900 m. E and 4121840 m. N; about 3.5 miles northwest of Hays: and adjacent to the Pound River 1.6 miles west of its confluence with Russell Fork of the Big Sandy River.
Elevation: 1201.66 feet
Total depth: 50.00 feet
Started drilling: 4/17/40 Completed drilling: 4/17/40
Sample description by: R.S. Good, Virginia Division of Mineral Resources, 2/14/67
References: U.S. Engineer Office, Huntington, W.Va., Report of Core Boring, 4/17/40 and Design Memorandum No. 3 Geology and Soils (2 volumes) for Ohio River Basin Pound Reservoir Project, U.S. Corps of Engineers, Huntington, W.Va., 1959.

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Formation (and remarks)
0.0–50.0	50	Norton Formation: composed of siltstone and sandstone with siderite grains at the base of the sandstone.

Well No. Bartlick (Pound) Dam, Site C, Hole No. 1 — County: Dickenson

VDMR Well No. ~~1809~~ 1812

Farm: John T. Flannagan Dam

Driller: Watkins & Henry (U.S. Corps of Engineers - Contractor)

Location: Dam site "C", about ~~¼~~ 0.3 mile north of ~~main dam~~ Site D

Inclination: Vertical

Elevation: 1201.7

Elevation of top of rock: 1201.7

Total Depth: 50.0

Date Started: 4/17/40

Date Completed: 4/17/40

Sample Description: R.S. Good February 14, 1967

Geologic Log

Depth	Thickness	Description
0.0 – 7.8	7.8	Sandstone: ~~subgreywacke~~ a light gray, massive; quartz (20-30 percent) angular to subangular (70-80 percent); matrix of feldspar, ~~(a10%)~~ and muscovite, biotite, and chlorite ~~(5-15%)~~ with detrital coal ~~as~~ in bituminous partings; Limonite stained joint at 0.3'.
7.8 – 9.4	1.6	similar to interval 0.0 – 7.8 except Sandstone: ~~subgreywacke~~ a: ~~as above~~ with up to 20 percent brown siderite clasts, some of which are in ~~some~~ ovoid ~~pennel size some~~ elongated lenticlur and discoid in shapes, some of the longest still discs are up to 0.25 x 25.0 mm. ~~up to an inch long by 1/8.~~
9.4 – 50.0	40.6	Siltstone: black to dark gray; ~~with~~, fine sandy laminae; white powdery jarosite at 48.6'.