

INTERVAL SHEET

Page 1 of 1

VDMR Well No: 618

Date rec'd: 3/23/61

Sample Interval: from 0 to: 109.07

PROP: Skeet Rock Dam Site, hole #1

Number of samples: 32

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

Total Depth: 109.07 feet

COUNTY: Dickenson

Oil or Gas: Water: Exploratory: X

From-To Depth in feet	From-To Elevation in feet	From-To Depth in feet	From-To Elevation in feet
- 6	- 1444	- 108	- 1342
- 10	- 1440	- 109	- 1341
- 11	- 1439	-	-
- 11.6	- 1438.4	-	-
- 14	- 1436	-	-
- 15	- 1435	-	-
- 16.4	- 1433.6	-	-
- 19	- 1431	-	-
- 20.5	- 1429.5	-	-
- 22	- 1428	-	-
- 24	- 1426	-	-
- 32.8	- 1417.2	-	-
- 34	- 1416	-	-
- 41.6	- 1408.4	-	-
- 43	- 1407	-	-
- 43.6	- 1406.4	-	-
- 45.8	- 1404.2	-	-
- 50	- 1400	-	-
- 55	- 1395	-	-
- 60	- 1390	-	-
- 65	- 1385	-	-
- 70	- 1380	-	-
- 75	- 1375	-	-
- 80	- 1370	-	-
- 85	- 1365	-	-
- 90	- 1360	-	-
- 95	- 1355	-	-
- 100	- 1350	-	-
- 105	- 1345	-	-
- 106.6	- 1343.4	-	-

Well: Skeet Rock Dam Site, hole 1

Farm:

Driller: Adams and Henry (U. S. Corps of Engr. , contractor)

Location: Haysi quadrangle - approximate UTM, 378650 m. E and
4119870 m. N; about 2.5 miles southeast of Skeetrock and
4.5 miles northeast of Haysi; also just east of the mouth of
Lower Twin Branch along the Pound River

Elevation: 1450.00 feet

Total depth: 109.07 feet

Started drilling: 12/21/38

Completed drilling: 1/3/39

Sample description by: William B. Brent, Virginia Division of Mineral Resources,
8/26/65

References: U. S. Engineers Office, Huntington, W. Va. , Report of
Core Boring, 1/4/39, and map of proposed Skeetrock dam site, preliminary
site survey

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Formation (and remarks)
0.0-2.2	2.2	Overburden
2.2-109.1	106.9	Norton Formation: composed of sand- stones and siltstones that contain a few coal stringers or fragments and are micaceous; some of the sandstone in the lower part of the core are calcareous in part

County: Dickenson
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GEOLOGIC LOG

Depth (feet)	Thickness (feet)	Description
0.0-2.2	2.2	Overburden
2.2-3.6	1.4	Sandstone: gray to brown, coarse-grained, iron oxide stained, micaceous; loosely cemented angular quartz grains with interstitial limonite; abundant mica on bedding surfaces with mineral cleavage parallel to bedding; long axes of quartz grains roughly aligned, micas commonly aligned, good lineation parallel to bedding; rock breaks readily parallel to bedding; slight greenish cast to rock in places; vugs about 1 mm in diameter; iron oxide stained streaks; quartz, muscovite, biotite, limonite, and a minor amount of feldspar and coal
3.6-5.1	1.5	No core
5.1-10.0	4.9	Same as interval 2.2'-3.6'
10.0-11.2	1.2	Sandstone: coarse-grained, micaceous; well cemented; abundant rust-colored areas of limonite 0.25 to 1 mm diameter; angular to slightly rounded quartz sand; lenticular blebs of mica concentrations (biotite) parallel to bedding; blebs about 1 to 2 cm long; interstitial small quartz grains; quartz, muscovite, biotite, limonite, and a minor amount of feldspar and coal
11.2-12.0	0.8	Sandstone: fine to medium-grained; limonite and muscovite
12.0-12.8	0.8	No core
12.8-14.4	1.6	Sandstone: light brown, fine- to coarse-grained, micaceous, iron oxide stains, lineation parallel to bedding from parallel orientation of quartz and mica along bedding; quartz, muscovite, biotite, and feldspar with minor amounts of garnet, monazite, chlorite, clay, and coal

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Depth (feet)	Thickness (feet)	Description
14.4-16.0	1.6	Sandstone: light gray, micaceous, average grain size 0.5 mm; well cemented; quartz, muscovite, biotite, some portions with abundant grains of limonite, minor amount of coal fragments
16.0-17.0	1.0	Sandstone: light brown, medium-to coarse-grained, micaceous; partially cemented; some thin laminae with concentrations of limonite and mica; quartz, muscovite, biotite, limonite
17.0-20.4	3.4	Sandstone: light gray, medium-to coarse-grained, iron oxide stained, micaceous; angular to subangular quartz grains; iron oxide stains parallel to bedding in some portions; quartz, muscovite, biotite, limonite
20.4-20.6	0.2	Sandstone; medium-to coarse-grained; closely spaced iron-stained micaceous laminae
20.6-22.7	2.1	Sandstone: light brown, medium-to coarse-grained, micaceous; iron oxide stained, some limonite cement and grains; good alignment of quartz and mica; quartz, muscovite, biotite, and minor amounts of coal fragments and hornblende (?)
22.7-26.6	3.9	Sandstone: coarse-grained, micaceous; angular quartz grains about 1 mm; iron-oxide stains perpendicular to bedding; lenses of mica parallel to bedding; lens of bituminous coal 5 mm thick at top of interval; quartz, muscovite, biotite, feldspar, limonite, coal
26.6-28.5	1.9	No core
28.5-33.0	4.5	Sandstone: similar to interval 22.7'-26.6', except iron oxide stains perpendicular and parallel to bedding; abundant fine-grained interstitial material

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Depth (Feet)	Thickness (Feet)	Description
33.0-35.3	2.3	Sandstone: gray, medium-to coarse-grained, micaceous, calcareous; angular quartz grains; well cemented; quartz, colorless and greenish muscovite, biotite, calcite, limonite, feldspar coal
35.3-35.9	0.6	Sandstone: gray, medium-to coarse-grained, micaceous; thin coal layers and lenses, some coal in fractures perpendicular to bedding; some iron oxide specks; one micaceous bleb 20 mm long resembles a pebble; quartz, mica, calcite, lustrous black brittle bituminous coal, minor amounts of garnet, zircon, and apatite
35.9-36.9	1.0	No core
36.9-42.4	5.5	Sandstone: similar to interval 35.3'-35.9'
42.4-43.6	1.2	Sandstone: gray, medium-to coarse-grained, micaceous; abundant coal and shale lenses and laminae
43.6-43.9	0.3	Shale: dull gray, silty and sandy
43.9-46.8	2.9	Sandstone and siltstone: dull gray, thin inter-laminations; some siltstone layers dark gray with biotite flakes; some sandstone layers light gray with quartz and muscovite; thin coal layers; scour and fill structures and lenticular bands; some iron oxide stains; quartz, muscovite, biotite, and minor amounts of coal
46.8-75.8	29.0	Sandstone: dark gray, silty, fine-grained; subrounded quartz grains; some gray sandstone bands and lenses and calcareous zones; iron oxide stains; quartz, muscovite, biotite, and minor amounts of coal
75.8-76.3	0.5	No core
76.3-80.0	3.7	Sandstone: similar to interval 46.8'-75.8'

County: Dickenson
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Depth (feet)	Thickness (feet)	Description
80.0-98.3	18.3	Siltstone: gray, calcareous, micaceous; well cemented; a few sandstone stringers; some iron oxide stained layers parallel to bedding; quartz, muscovite, biotite, calcite
98.3-101.5	3.2	Sandstone: gray, silty, fine-to medium-grained, calcareous, micaceous; grains angular to subrounded; dark gray thin silty to shaly laminae and lenses; quartz, muscovite, biotite, calcite
101.5-106.0	4.5	Sandstone: gray, fine-grained, micaceous, calcareous; angular to subrounded quartz grains; dark gray silty to shaly laminae and lenses; cross bedding; quartz, muscovite, biotite, calcite
106.0-106.8	0.8	Sandstone: dark gray, fine-grained, calcareous, micaceous; well cemented; alternate thin layers of light and dark gray sandstone; quartz muscovite, biotite, calcite
106.8-108.9	2.1	Sandstone: light to medium gray, fine-grained, micaceous, calcareous; alternate light and dark gray laminae, generally less than 1 mm thick; cross bedding; quartz, muscovite, biotite, calcite
108.9-109.1	0.2	Sandstone: dark gray, fine-grained, micaceous, calcareous; quartz, muscovite, biotite and calcite

Skeet Rock Dam Site, Pound River, Va.
Driller: Adams and Henry (U. S. Corps Engineers)
Core diameter: 2-1/8 inches
Started: 12-21-38 Completed: 1-3-39
County: Dickenson
Hole #1 Total Depth: 109.07
Logged by: W. B. Brent

VDMR Well No. 618

<u>Elevation - feet</u>	<u>Description</u>
1450	Ground surface
1450-1447.77	Overburden
1447.77-1446.40	Coarse grained, dull, gray to brown, iron-stained micaceous sandstone. Loosely cemented angular quartz grains with much interstitial limonite. Non-calcareous. Abundant mica on bedding surfaces with mineral cleavage parallel to bedding. Long axes of quartz grains roughly aligned, micas commonly aligned, good lineation parallel to bedding. Rock breaks readily parallel to bedding. Slight greenish cast to rock in places. Vugs about 1 mm diameter. Iron-stained streaks. Probably weathered zone. Quartz, muscovite, biotite, limonite. Some feldspar, coal?
1446.40-1444.91	No core
1444.91-1440	Samples at 1444 and 1440. Thin-section at 1444. Same description as interval 1447.77-1446.40.
1440-1438.8	Sample at 1439. Fairly well cemented, coarse-grained micaceous sandstone. Abundant rust-colored areas of limonite $\frac{1}{4}$ to 1 mm diameter. Angular to slightly rounded quartz sand. Lenticular blebs of mica concentrations (much biotite) parallel to bedding. Blebs about 1 to 2 cm long. Much interstitial small quartz grains. Quartz, muscovite, biotite, limonite. Possibly some feldspar and coal.
1438.8-1438.01	Sample at 1438.4. Fine to medium grained sandstone. Limonite and muscovite with scattered fine to medium quartz grains.
1438.01-1437.16	No core
1437.16-1435.62	Sample at 1436. Fine to coarse grained micaceous sandstone with loose to fair cementation. Chiefly light-brown iron-stained sandstone. Lineation parallel to bedding from parallel orientation of quartz and mica along bedding. Quartz, muscovite, biotite, feldspar. Also, garnet, monazite, chlorite?, clay?, coal?

- 1435.62-1434 Sample at 1435. Thin section at 1435. Firm, fairly well cemented light gray micaceous sandstone. Non-calcareous. Average grain size $\frac{1}{2}$ mm. Some areas of abundant limonite specks. Quartz, muscovite, biotite, coal?
- 1434-1432.97 Sample at 1433.6. Medium to coarse grained, light brown, micaceous sandstone. Loose to fair cementation. Some thin layers of much limonite and mica and little quartz. Much interstitial quartz. Quartz, muscovite, biotite, limonite.
- 1432.97-1429.6 Sample at 1431. Medium to coarse grained slightly iron-stained micaceous sandstone. Angular to slightly sub angular quartz sand. Non-calcareous. Fair cementation. Some prominent iron-stained streaks, especially parallel to bedding. Light gray rock where not iron-stained. Quartz, muscovite, biotite, limonite.
- 1429.6-1429.4 Sample at 1429.5. Medium to coarse sandstone with prominent, closely spaced, heavily micaceous, dark, iron-stained bands.
- 1429.4-1427.30 Sample at 1428. Medium to coarse grained micaceous sandstone with some iron-stained bands. Good lineation of quartz and micas. Some limonite cement; many limonite specks. Fairly well-cemented light brown iron-stained sandstone. Quartz, muscovite, biotite. Also, hornblende?, coal?
- 1427.30-1423.43 Sample at 1426. Coarse grained, well-bedded, iron-stained, micaceous sandstone. Angular quartz grains about 1 mm diameter; most other minerals of smaller size. Feldspars altered, probably from weathering. Fairly well-cemented rock. Iron-stained streaks perpendicular to bedding. Lenticular bands or blebs of dark mica parallel to bedding. 5 mm thick bituminous coal lens at 1427 feet. Quartz, muscovite, biotite, feldspar, limonite, coal.
- 1423.43-1421.5 No core
- 1421.5-1417 Sample at 1417.2. Similar to interval 1427.30-1423.43 but generally more iron-especially toward bottom. Iron colored streaks parallel and perpendicular to bedding. Average grain size slightly less than above zone and has much fine-grained interstitial material.
- 1417-1414.7 Sample at 1416. Medium to coarse, calcareous, micaceous gray sandstone. Well cemented. Angular quartz grains, much is clear and shiny. Quartz, colorless and greenish muscovite, biotite, calcite, limonite, feldspar, coal.

- 1414.7-1414.14 Medium to coarse grained non-calcareous, gray, micaceous sandstone. Thin coal bands and lenses. Some thin coal streaks perpendicular to bedding - fissure fillings. Shiny black brittle bituminous coal. One concretionary micaceous bleb, 2 cm long, resembles a pebble. Some iron-speckled zones. Some minerals as in interval above, but not enough calcite to make it a calcareous rock. Contains a little garnet, zircon, and apatite?
- 1414.14-1413.12 No core
- 1413.12-1407.59 Sample at 1408.4. Thin section at 1408.4
Same description as interval 1414.7-1414.14.
- 1407.59-1406.44 Sample at 1407.
Firm, medium-to-coarse, micaceous, gray sandstone. Abundant coal and shale lenses and laminae. Rock parts readily parallel to lamination. Same minerals as above interval but has more coal and shale.
- 1406.44-1406.13 Sample at 1406.4.
Firm silty to sandy dull gray shale.
- 1406.13-1403.27 Sample and thin section at 1404.2.
Dull gray thinly laminated sandstone and siltstone. Silty layers dark from contained tiny biotite flakes. Light colored layers chiefly fine to coarse-grained quartz sand and muscovite. Thin coal seams. Parts readily along laminations. Scour and fill structures and lenticular banding resulting from differential compaction.
Quartz, muscovite, biotite. Some coal and some limonite stains.
- 1403.27-1374.3 Samples at: 1400, 1395, 1390, 1385, 1380, and 1375. Dark gray silty very fine grained and fine grained sandstone. Some gray sandstone bands and lenses. Some calcareous zones. Parts readily along thin laminae.
Subrounded quartz grains, muscovite, biotite. Some coal and a few limonite stains. Other components too small to be readily identified.
- 1374.3-1373.76 No core
- 1373.76-1370 Sample at 1370.
Same description as interval 1403.27-1374.3.
- 1370-1351.7 Samples at 1365, 1360, 1355.
Gray, calcareous, micaceous siltstone. Some thin sandstone stringers, some thin rust-colored layers parallel to bedding. Hard, firm rock. Quartz, muscovite, biotite, calcite. Others too small to be readily identified.

- 1351.7-1348.53 Sample at 1350.
Gray, hard, firm, silty, calcareous, micaceous sandstone.
Fine to medium grain size. Grains angular to subrounded.
Dark, thin silty to shaly laminations and lenses. Some
areas of disturbed bedding.
Quartz, muscovite, biotite, calcite.
- 1348.53-1344 Sample at 1345.
Gray, micaceous, calcareous, fine grained to medium fine grained
sandstone. Many dark silty to shaly laminae and lenses. Cross-
bedding present. Hard, firm sandstone with much admixed silt.
Angular to subrounded quartz sand grains.
Quartz, muscovite, biotite, calcite.
- 1344-1343.2 Sample at 1343.4.
Dark gray, fine-banded, calcareous, micaceous fine-grained
sandstone. Alternating, fine, light and dark layers. Firm,
hard rock. Quartz, muscovite, biotite, calcite.
- 1343.2-1341.1 Sample at 1342.
Gray to light gray micaceous, slightly calcareous fine-grained
sandstone. Alternating light and dark laminae, less than 1 mm
in thickness commonly. Cross-bedding present. Quartz, musco-
vite, biotite, calcite.
- 1341.1-1340.93 Sample at 1341.
(bottom of hole) Dark gray fine to very fine grained micaceous, very slightly
calcareous sandstone. Quartz, muscovite, biotite, calcite.

Summary Description

An inspection of the Geologic and Economic Map of Dickenson County (Va. Geol. Survey, 1921) indicates that the hole began in the upper part of the Norton formation. The bottom of the hole is probably also in the Norton formation.

The core consists of coarse-to-fine grained sandstone, siltstone, and a little shale. Much of the siltstone would probably be called shale upon casual megascopic inspection. Thin coal stringers, less than an inch thick, are present. Noticeable effects of weathering, poorly cemented rock and limonite stains, extend approximately 30 to 50 feet below ground surface.

INTERVAL SHEET

Page _____

VDMR Well No.: 618

Date February 1962

Sample Interval: from 1444' to 1341'

PROP: Skeet Rock Dam Site, Hole #1

Total depth 109.07'

COMP: Adams and Henry

Oil _____ Gas _____ Water _____ Exploratory X

COUNTY: Dickenson

Cuttings _____ Core X Other _____

From-To	From-To	From-To	From-To	From-To
-	-1444 (thin-section)	-	-	-
-	-1440	-	-	-
-	-1439	-	-	-
-	-1438.4	-	-	-
-	-1436	-	-	-
-	-1435 (thin-section)	-	-	-
-	-1433.6	-	-	-
-	-1431	-	-	-
-	-1429.5	-	-	-
-	-1428	-	-	-
-	-1426	-	-	-
-	-1417.2	-	-	-
-	-1416	-	-	-
-	-1408.4 (thin-section)	-	-	-
-	-1407	-	-	-
-	-1406.4	-	-	-
-	-1404.2 (thin-section)	-	-	-
-	-1400	-	-	-
-	-1395	-	-	-
-	-1390	-	-	-
-	-1385	-	-	-
-	-1380	-	-	-
-	-1375	-	-	-
-	-1370	-	-	-
-	-1365	-	-	-
-	-1360	-	-	-
-	-1355	-	-	-
-	-1350	-	-	-
-	-1345	-	-	-
-	-1343.4	-	-	-
	1342			
	1341 (bottom of hole).			

County: Dickenson
VDMR Well No. 618

Well: Skeet Rock Dam Site, hole 1

Farm:

Driller: Adams and Henry (U. S. Corps of Engr. , contractor)

Location: Haysi quadrangle - approximate UTM, 378650 m. E and
4119870 m. N; about 2.5 miles southeast of Skeetrock and
4.5 miles northeast of Haysi; also just east of the mouth of
Lower Twin Branch along the Pound River

Elevation: 1450.00 feet

Total depth: 109.07 feet

Started drilling: 12/21/38 Completed drilling: 1/3/39

Sample description by: William B. Brent, Virginia Division of Mineral Resources,
8/26/65

References: U. S. Engineers Office, Huntington, W. Va. , Report of
Core Boring, 1/4/39, and map of proposed Skeetrock dam site, preliminary
site survey

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Formation (and remarks)
0.0-2.2	2.2	Overburden
2.2-109.1	106.9	Norton Formation: composed of sand- stones and siltstones that contain a few coal stringers or fragments and are micaceous; some of the sandstone in the lower part of the core are calcareous in part

County: Dickenson
VDMR Well No. 618

GEOLOGIC LOG

Depth (feet)	Thickness (feet)	Description
0.0-2.2	2.2	Overburden
2.2-3.6	1.4	Sandstone: gray to brown, coarse-grained, iron-oxide stained, micaceous; loosely-cemented angular quartz grains with interstitial limonite; abundant mica on bedding surfaces with mineral cleavage parallel to bedding; long axes of quartz grains roughly aligned, micas commonly aligned, good lineation parallel to bedding; rock breaks readily parallel to bedding; slight greenish cast to rock in places; vugs about 1 mm in diameter; iron-oxide-stained streaks; quartz, muscovite, biotite, limonite, and a minor amount of feldspar and coal
3.6-5.1	1.5	No core
5.1-10.0	4.9	Same as interval 2.2'-3.6'
10.0-11.2	1.2	Sandstone: coarse-grained, micaceous; well cemented; abundant rust-colored areas of limonite 0.25 to 1 mm diameter; angular- to slightly-rounded quartz sand; lenticular blebs of mica concentrations (biotite) parallel to bedding; blebs about 1 to 2 cm long; interstitial small quartz grains; quartz, muscovite, biotite, limonite, and a minor amount of feldspar and coal
11.2-12.0	0.8	Sandstone: fine to medium-grained; limonite and muscovite
12.0-12.8	0.8	No core
12.8-14.4	1.6	Sandstone: light brown, fine- to coarse-grained, micaceous, iron-oxide stains, lineation parallel to bedding from parallel orientation of quartz and mica along bedding; quartz, muscovite, biotite, and feldspar with minor amounts of garnet, monazite, chlorite, clay, and coal

No correlation between these depths & those of Interval Sheet R-10

County: Dickenson
VDMR Well No. 618

Depth (feet)	Thickness (feet)	Description
14.4-16.0	1.6	Sandstone: light gray, micaceous, average grain size 0.5 mm; well cemented; quartz, muscovite, biotite, some portions with abundant grains of limonite, minor amount of coal fragments
16.0-17.0	1.0	Sandstone: light brown, medium-to coarse-grained, micaceous; partially cemented; some thin laminae with concentrations of limonite and mica; quartz, muscovite, biotite, limonite
17.0-20.4	3.4	Sandstone: light gray, medium-to coarse-grained, iron-oxide stained, micaceous; angular to subangular quartz grains; iron-oxide stains parallel to bedding in some portions; quartz, muscovite, biotite, limonite
20.4-20.6	0.2	Sandstone; medium-to coarse-grained; closely-spaced iron-stained micaceous laminae
20.6-22.7	2.1	Sandstone: light brown, medium-to coarse-grained, micaceous; iron-oxide stained, some limonite cement and grains; good alignment of quartz and mica; quartz, muscovite, biotite, and minor amounts of coal fragments and hornblende (?)
22.7-26.6	3.9	Sandstone: coarse-grained, micaceous; angular quartz grains about 1 mm; iron-oxide stains perpendicular to bedding; lenses of mica parallel to bedding; lens of bituminous coal 5 mm thick at top of interval; quartz, muscovite, biotite, feldspar, limonite, coal
266.6-28.5	1.9	No core
28.5-33.0	4.5	Sandstone: similar to interval 22.7'-26.6', except iron-oxide stains perpendicular and parallel to bedding; abundant fine-grained interstitial material

County: Dickenson
VDMR Well No. 618

Depth (Feet)	Thickness (Feet)	Description
33.0-35.3	2.3	Sandstone: gray, medium-to coarse-grained, micaceous, calcareous; angular quartz grains; well cemented; quartz, colorless and greenish muscovite, biotite, calcite, limonite, feldspar coal
35.3-35.9	0.6	Sandstone: gray, medium-to coarse-grained, micaceous; thin coal layers and lenses, some coal in fractures perpendicular to bedding; some iron-oxide specks; one micaceous bleb 20 mm long resembles a pebble; quartz, mica, calcite, lustrous, black, brittle bituminous coal, minor amounts of garnet, zircon, and apatite
35.9-36.9	1.0	No core
36.9-42.4	5.5	Sandstone: similar to interval 35.3'-35.9'
42.4-43.6	1.2	Sandstone: gray, medium-to coarse-grained, micaceous; abundant coal and shale lenses and laminae
43.6-43.9	0.3	Shale: dull gray, silty and sandy
43.9-46.8	2.9	Sandstone and siltstone: dull gray, thin inter-laminations; some siltstone layers dark gray with biotite flakes; some sandstone layers light gray with quartz and muscovite; thin coal layers; scour and fill structures and lenticular bands; some iron-oxide stains; quartz, muscovite, biotite, and minor amounts of coal
46.8-75.8	29.0	Sandstone: dark gray, silty, fine-grained; subrounded quartz grains; some gray sandstone bands and lenses and calcareous zones; iron-oxide stains; quartz, muscovite, biotite, and minor amounts of coal
75.8-76.3	0.5	No core
76.3-80.0	3.7	Sandstone: similar to interval 46.8'-75.8'

County: Dickenson
VDMR Well No. 618

Depth (feet)	Thickness (feet)	Description
80.0-98.3	18.3	Siltstone: gray, calcareous, micaceous; well cemented; a few sandstone stringers; some iron-oxide stained layers parallel to bedding; quartz, muscovite, biotite, calcite
98.3-101.5	3.2	Sandstone: gray, silty, fine-to medium-grained, calcareous, micaceous; grains angular to subrounded; dark gray, thin, silty to shaly laminae and lenses; quartz, muscovite, biotite, calcite
101.5-106.0	4.5	Sandstone: gray, fine-grained, micaceous, calcareous; angular to subrounded quartz grains; dark gray, silty to shaly laminae and lenses; cross bedding; quartz, muscovite, biotite, calcite
106.0-106.8	0.8	Sandstone: dark gray, fine-grained, calcareous, micaceous; well cemented; alternate thin layers of light and dark gray sandstone; quartz muscovite, biotite, calcite
106.8-108.9	2.1	Sandstone: light to medium gray, fine-grained, micaceous, calcareous; alternate light and dark gray laminae, generally less than 1 mm thick; cross bedding; quartz, muscovite, biotite, calcite
108.9-109.1	0.2	Sandstone: dark gray, fine-grained, micaceous, calcareous; quartz, muscovite, biotite and calcite

INTERVAL SHEET

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VDMR Well No: 618

Date rec'd: 3/23/61

Sample Interval: from 0 to: 109.07

PROP: Skeet Rock Dam Site, hole #1

Number of samples: 32

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

Total Depth: 109.07 feet

COUNTY: Dickenson

Oil or Gas: Water: Exploratory: X

From-To Depth in feet	From-To Elevation in feet	From-To Depth in feet	From-To Elevation in feet
- 6	- 1444	- 108	- 1342
- 10	- 1440	- 109	- 1341
- 11	- 1439	-	-
- 11.6	- 1438.4	-	-
- 14	- 1436	-	-
- 15	- 1435	-	-
- 16.4	- 1433.6	-	-
- 19	- 1431	-	-
- 20.5	- 1429.5	-	-
- 22	- 1428	-	-
- 24	- 1426	-	-
- 32.8	- 1417.2	-	-
- 34	- 1416	-	-
- 41.6	- 1408.4	-	-
- 43	- 1407	-	-
- 43.6	- 1406.4	-	-
- 45.8	- 1404.2	-	-
- 50	- 1400	-	-
- 55	- 1395	-	-
- 60	- 1390	-	-
- 65	- 1385	-	-
- 70	- 1380	-	-
- 75	- 1375	-	-
- 80	- 1370	-	-
- 85	- 1365	-	-
- 90	- 1360	-	-
- 95	- 1355	-	-
- 100	- 1350	-	-
- 105	- 1345	-	-
- 106.6	- 1343.4	-	-

123 6 95
Deal Strip meters
Surface mining
Table 1

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

Date 1 - 4 - 39

REPORT OF CORE BORING

Sheet 1 of 5

Project Skeet Hook Dam Site, Pound River, Virginia. VDMR Well No. 618

Hole No. 1 Dia. 2 1/8" Location Center line Sta. 0+01

Date started 5:45 P. M. 12 - 21 - 38 Completed 3:50 P. M. 1 - 3 - 39

Driller Adams and Henry Inspector Hobart G. Warren.

Type of drilling equipment used U. S. Government Core Drill.

From Elev. <u>1450.00</u>	To Elev. <u>1430.00</u>	on this page,	
Elev. of top of Hole	<u>1450.00</u>	Plan depth of Hole	<u> </u>
Elev. of top of rock	<u>1447.77</u>	Total overburden drilled	<u>2.23</u>
Elev. bottom of hole	<u>1340.93</u>	Total rock drilled	<u>106.84</u>
Elev. of ground water	<u>None</u>	Total rock recovered	<u>101.01</u>
Elev. of water lost	<u> </u>	Total depth of Hole	<u>109.67</u>
Elev. water regained	<u> </u>	Deviation from plan depth	<u> </u>
Number of Core Boxes	<u>6</u>		

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
0.00	1450.00			Top of Ground.			
2.23	1447.77			Silt, sand and clay.	0:30		Change
	1446.40			Soft, coarse, brown sandstone with clay seams.	0:30	1	
5.09	1444.91		Loss 1.49				Loss 1.49 Change
	1438.01			Soft, coarse, brown sandstone with vertical seams.	2:50	1	
	1437.16		Loss 0.85				Loss 0.85
14.38	1435.62						Change
15.93	1434.07			Hard, grey sandstone.	0:15	1	Change
				Hard, brown sandstone, badly broken.	2:25	1	
20.00	1430.00						Bottom of sht.

Submitted _____
 Engineer

Approved _____
 Major, Corps of Engineers,
 Chief, Operation Division.

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

Date 1 - 4 - 39

REPORT OF CORE BORING

Sheet 2 of 5

Hole No. 1 From El. 1430.00 To El. 1401.00 on this page.

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
20.00	1430.00					1	
	1427.30						Bottom box #1
	1423.43			Hard, brown sand stone badly broken.	2:25	2	Loss 1.93
	1421.50		Loss 1.93				
33.00	1417.00						Change
	1414.14					2	
	1413.12		Loss 1.02			2	Loss 1.02
				Hard, light grey sand stone.	1:40	2	
42.41	1407.59						Change
43.56	1406.44			Hard, grey sand stone with coal laminations.	0:15	2	Change
	1405.13					2	Bottom box #2
				Hard, grey sand stone with shale laminations.	0:25	3	
46.73	1403.27						
				Hard, dark grey shale.	7:20	3	
49.00	1401.00						Bottom of sht.

Submitted

Approved

Engineer

Major, Corps of Engineers,
Chief, Operation Division.

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

Date 1 - 4 - 39

REPORT OF CORE BORING

Sheet 3 of 5

Hole No. 1 From El. 1401.00 To El. 1372.00 on this page.

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
49.00	1401.00						
						3	
	1386.92			Hard, dark grey shale.	7:20		Bottom box #3
						4	
	1374.30						
	1373.76		Loss 0.54			4	Loss 0.54
						4	
79.00	1372.00						Bottom of sht.

Submitted _____

Approved _____

Engineer

Major, Corps of Engineers,
Chief, Operation Division.

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

Date 1 - 4 - 39

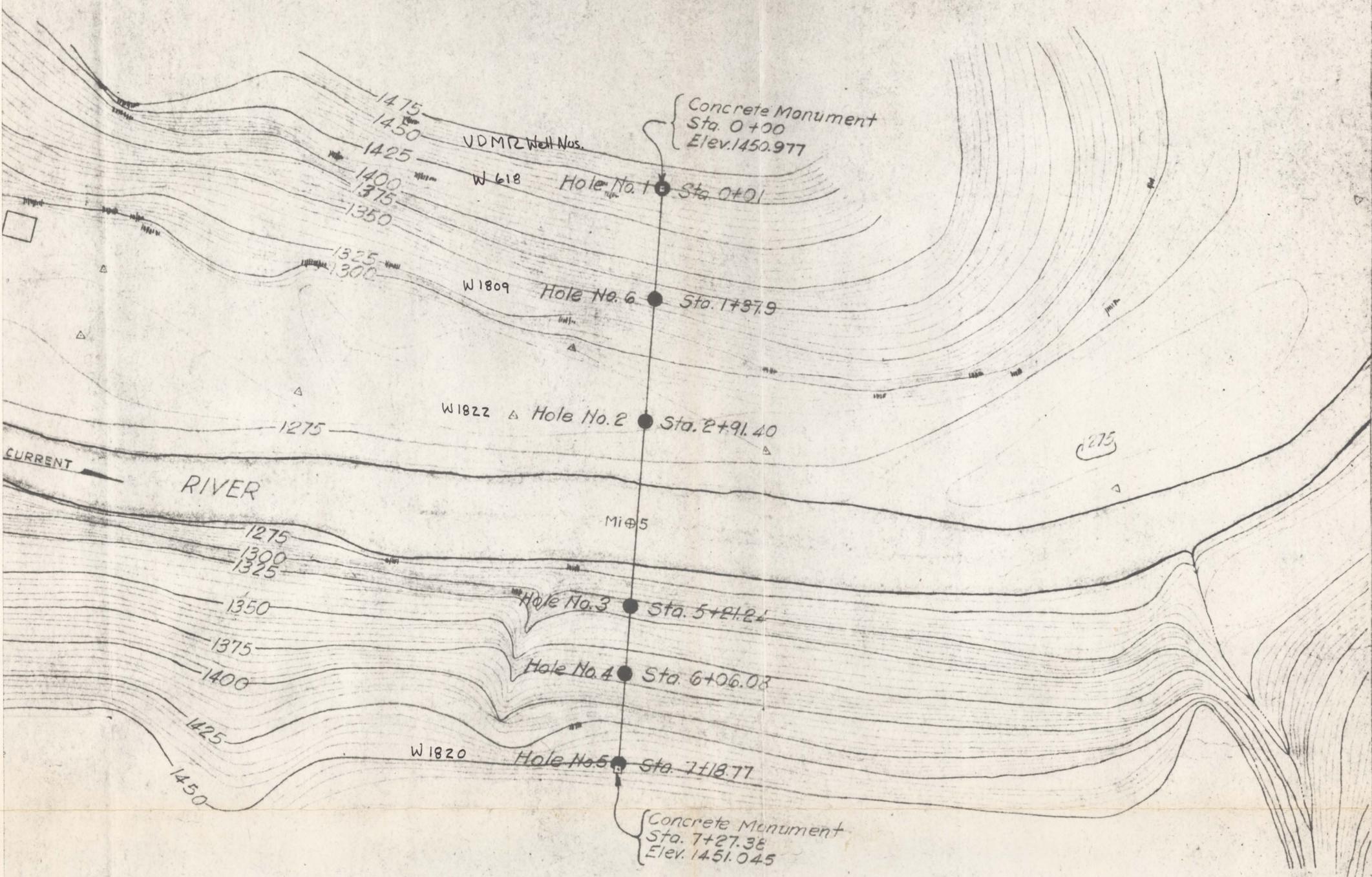
REPORT OF CORE BORING Sheet 4 of 5

Hole No. 1 From El. 1372.00 To El. 1344.00 on this page.

DETAIL OF LOG

Depth	Elev.	Scale	Legend	Material Classification	Drilling Time Min./Ft.	Box No.	Remarks
78.00	1372.00						
				Hard, dark grey shale.	7:20	4	
	1367.48						
82.77	1367.23					5	Bottom box #4 Change
				Very hard, light grey shale.	2:45	5	
97.91	1352.09						Change
	1348.53					5	
				Hard, grey sand stone interlaminated with shale.	2:00		Bottom box #5
						6	
106.00	1344.00						Bottom of sht.

Submitted _____ Approved _____
Engineer Major, Corps of Engineers,
Chief, Operation Division.



Nays quadrangle
 east of the confluence of
 Lower Twin Branch
 about 379000 E and 4120000 N



2 1/2 mi. E Skect Rock

Note:
 ⊕ = Miles above mouth
 W 618 = Sandstone outcrop

BIG SANDY RIVER
 POUND RIVER
 PROPOSED SKEET ROCK DAM SITE
 PRELIMINARY SITE SURVEY

IN SHEETS SHEET NO. SCALE: 1" = 100'
 100 50 0 100 200 300

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA. OCT. 1938
 SUBMITTED: *M. J. Dantz*
 CHIEF, SURVEYS SECTION
 DRAWN: H. C. L. - W. H. A.
 CHECKED FILE NO.
 APPROVED: _____
 CHIEF OPERATION DIVISION
 TRANSMITTED WITH LETTER
 DATED