

INTERVAL SHEET

WWCR 448

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VDMR Well No.: 846

Date 5/21/63

Sample Interval: from 0 to 480

PROP: Roanoke Elec. Steel Corp.

Total depth 480

COMP: Sydnor

Oil  Gas  Water  Exploratory

COUNTY: Roanoke (Roanoke)  
VDMR Well No: W-846

Cuttings  Core  Other

From-To	From-To	From-To	From-To	From-To
-	0_15	438_	-	-
-	15_30	438_445	Insufficient quantity-	-
-	30_40	445_453	of material to wash.	-
-	45_55 <i>missing</i>	453_465	-	-
-	55_70	465_468	-	-
-	70_85	468_469	-	-
-	85_100	475_	-	-
-	100_120	478_	-	-
-	120_135	480_	-	-
-	135_150	-	-	-
-	150_165	-	-	-
-	165_180	-	-	-
-	180_190	-	-	-
-	190_210	-	-	-
-	210_225	-	-	-
-	225_240	-	-	-
-	240_260	-	-	-
-	260_275 No sample	-	-	-
-	275_285	-	-	-
-	285_300	-	-	-
-	300_315	-	-	-
-	315_330	-	-	-
-	330_345	-	-	-
-	345_360	-	-	-
-	360_375	-	-	-
-	375_390	-	-	-
-	390_393	-	-	-
-	393_415	-	-	-
-	415_421	-	-	-
-	421_430	-	-	-

OWNER: Roanoke Electric Steel Corp.  
DRILLER: Sydnor Pump & Well Co.  
LOCATION: Roanoke (Roanoke)

VDMR # 846  
WWCR # 448  
TOTAL DEPTH : 480'

GEOLOGIC LOG

0-15	Overburden - weathered siltstone, locally finely sandy, yellow-brown, moderately soft, flaky, no apparent bedding, calcareous and siliceous with; rare biotite, muscovite, and carbonaceous material, and abundant iron oxide stains.
15-30	As above
30-40	As above
40-55	As above - (sample finely ground)
55-70	As above
70-85	As above
85-100	As above
100-120	As above
120-135	Siltstone - calcareous, weathered, locally finely sandy, red (rare), green and yellow-brown, moderately soft, flaky, no apparent bedding, calcareous and siliceous with; common muscovite, rare calcite, and abundant iron oxide stains.
135-150	As above
150-165	Siltstone - calcareous, locally finely sandy, light gray, red and green, moderately soft, flaky, no apparent bedding, calcareous and siliceous with; rare muscovite, common iron oxide stains, and abundant yellow-brown weathered siltstone.
165-180	As above
180-190	Siltstone - as above, with stringers of yellow-brown, silty dolomite.
190-210	As above
210-225	Limestone - impure and weathered, dolomitic and shaly, light brown, moderately hard, no apparent bedding, cryptocrystalline with; common calcite and abundant iron oxide staining (X-ray analysis: calcite 50%, quartz 10%, potash feldspar 15%, mica 20%, dolomite 5%).

225-240	As above
240-260	As above
260-275	No sample
275-285	Siltstone - locally finely sandy, light gray, red and green, moderately hard, brittle, no apparent bedding, calcareous and siliceous, with; rare muscovite, abundant calcite, and common iron oxide stains.
285-300	Siltstone - locally finely sandy, light gray, red and green, moderately hard, brittle, no apparent bedding, calcareous and siliceous with; common biotite, muscovite, and calcite, rare carbonaceous material, and common iron oxide stains.
300-315	As above
315-330	As above
330-345	As above
345-360	As above
360-375	As above
375-390	As above
390-393	As above
393-415	As above
415-421	Dolomite - shaly, dark gray, hard, no apparent bedding to platy, cryptocrystalline with; abundant pyrite, common calcite, and abundant dolomite veinlets.
421-430	Dolomite - shaly, light to dark gray, moderately hard, no apparent bedding to platy, cryptocrystalline with; abundant pyrite, calcite, and dolomite veinlets.
438-445	Shale - light greenish-gray, moderately soft, flaky, fair to good fissility, argillaceous with; rare muscovite, and common calcite veinlets.
445-453	As above - with white and light gray fragments.

OWNER: Roanoke Electric Steel Corp. - (continued)

#846

- 453-465 Dolomite - light to dark gray, moderately hard, cryptocrystalline with; rare pyrite, carbonaceous material, and iron oxide staining.
- 465-468 Interbedded; dolomite - as above, with; siltstone - red and green, moderately hard, brittle, calcareous and siliceous with; rare muscovite, common calcite veinlets, and rare iron oxide stains.
- 468-469 Dolomite - light gray and white, moderately hard, cryptocrystalline with; rare pyrite, abundant calcite, and rare iron oxide staining.
- 475 As above
- 478 As above
- 480 As above - with approximately 50% of sample white calcite fragments.

GEOLOGIC SUMMARY

<u>AGE</u>	<u>ROCK UNIT</u>
Cambrian	Rome formation

Virginia Division of Mineral Resources  
John M. Wilson - Geologist  
October 9, 1963