INTERVAL SHEET

| Page | 1 | VDMR Well No.: 666 WWCR #62 | |
|---------|------------------------------|--|--------|
| · Date | 6/18/62 | Sample Interval: from 0 to 400 | |
| PROP: | A. W. Pleasants, Jr. | Total depth 413 | |
| COMP: | Sydnor | OilGasWaterX_Exploratory | |
| COUNTY: | Rockbridge (Lexington) | CuttingsX_CoreOther | |
| From-To | From-To | From-To WASHED SAMPLES From-To | From-T |
| _ | 0 - 60 | - Insufficient quantity to | - |
| - | 82 - | - wash | **** |
| _ | 103 - | - | 6.004 |
| _ | 115 - 130 - | | tuna |
| | 130 - | | - |
| - | 145 - | | - |
| | 160 - | , CO | Mark |
| : | 175 - | rest: pad | kine. |
| - | 190 - | Gin CC3 | |
| 0 - | 205 - | SEES (mail | - |
| | 220 - | . The state of the | neri |
| - | 235 - | w w | - |
| - | 250 - | | 649 |
| - | 265 - | 60 | - ma |
| - | 280 - | | 400 |
| | 205 | | |
| | 295 - 310 - | | *** |
| _ | 325 - | | |
| - | 340 - | tal tal | - |
| - | 355 _ | - | |
| | | | |
| - | 370 - | ···· | 100 |
| ₩ . | 385 _ | in the second se | casi |
| - | 400 - | • | anti |
| - | Sand _from water strata | | F-18 |
| - | water Strata | | 128 |
| _ | _ | | NO. |
| | = | on | 16.0 |
| O - | _ | jis. 140 | and . |
| _ | = | tes (see | 969 |
| - | - | ten. | 5690 |
| | | | |

OWNER: Dr. A. W. Pleasants, Jr. DRILLER: Sydnor Pump and Well Co., Inc. COUNTY: Rockbridge (Lexington

-265

-280

-295

As above

As above

As above

WWCR # 62 DEPTH: 413'

VDMR

#666

SAMPLE EXAMINATION (unwashed)

| 0-60 | SOIL - yellow to orange, soft, argillaceous, with 10% coarse, subrounded, quartz sand | | |
|------|---|--|--|
| | ORDOVICIAN WHITESBURG LIMESTONE | | |
| -82 | LIMESTONE - light gray, hard, massive, very fine grained, moderately calcareous, (BEDROCK IN INTERVAL BETWEEN 60-82 FEET) | | |
| -103 | LIMESTONE - medium gray, hard, massive, fine grained, moderately calcareous with small white veinlets of calcite | | |
| -115 | LIMESTONE - light gray, hard, massive, fine grained, moderately calcareous | | |
| -130 | As above | | |
| -145 | As above | | |
| -160 | As above | | |
| -175 | As above | | |
| -190 | LIMESTONE - light gray to white, hard, massive, dolomitic, slightly calcareous, 1% iron stained | | |
| -205 | LIMESTONE - light gray, hard, massive, fine grained, dolomitic, slightly calcareous, trace of white calcite veins | | |
| -220 | LIMESTONE - light gray, hard, massive, fine grained, dolomitic, slightly calcareous | | |
| -235 | As above | | |
| -250 | As above | | |
| 0/5 | | | |

| OWNER: | Dr. A. W. Pleasants, Jr. (cont.) | |
|--------------|---|--|
| - 310 | LIMESTONE - white-to gray, hard, massive, fine grained, moderately calcareous | |
| - 325 | As above | |
| -340 | LIMESTONE - dark gray to white, hard, massive, fine grained, moderately calcareous | |
| - 355 | LIMESTONE - dark gray, hard, massive, fine grained, dolomitic, slightly calcareous | |
| | ORDOVICIAN LENOIR LIMESTONE | |
| - 370 | LIMESTONE - pink with some gray, hard, fine grained, highly calcareous with 1% fine grained, pink siltstone | |
| - 385 | LIMESTONE - gray with some pink and white, hard, fine grained, highly calcareous with 2% pink, fine grained, calcareous siltstone, 1% black chert | |
| - 400 | LIMESTONE - gray and white, hard, fine grained, moderately cal- careous, 5% black, nodular chert, trace of limonite | |
| | GEOLOGIC SUMMARY | |
| | CLOLOGIO JONEMITI | |

| | AGE | FORMATION OR UNIT |
|------------------|------------|----------------------|
| 0 - 355 | Ordovician | Whitesburg limestone |
| 370 - 400 | Ordovician | Lenoir limestone |

VIRGINIA DIVISION OF MINERAL RESOURCES Merrick S. Whitfield, Geologist July 2, 1962

ADDITIONAL WELL DATA

Microscopic examination of sediment from a water sample collected from 365 to 367 feet: SILTSTONE - reddish orange, extremely fine grained, limonitic, slightly argillaceous

Microscopic examination of sand from water bearing strata below 365 feet: SAND - yellow to white, fine to coarse grained quartz and limestone, subrounded to well rounded limestone grains, highly calcareous

Analysis of the water sample indicated the Ph to be 7.4 and the mineral content in parts per million as follows:

Iron------35
Manganese-----75
Nitrate-----19
Sulfate----20.00
Total hardness-171.00