|  | COPY TO C.                                       | 1977                                 | Budge                 |  |                  |
|--|--|--------------------------------------|-----------------------|--|------------------|
| Form 9-330   | 400 S  | t.<br>7                              |                       | v vrpires 12-31-60.                      | <b>NN</b> -      |
|  | <del></del> 1                                    |                                      | U. S.                 | LAND OFFICE                              | Kuntoo           |
| <b> </b>   |  |                                      |                       | AL NUMBER                                |                  |
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|  |  | UN                                   | ITED STATES           | 5  |                  |
|  |  | DEPARTME                             | NT OF THE I           |  |                  |
|  |  | GEOI                                 | LOGICAL SURV          | EY                                       |                  |
|  |  | -                                    |                       | 1. S. C.                                 | S. A.S. P.       |
|  |  |                                      |                       | : 1920                                   | na nasi kulu     |
|  |  | LOG OF O                             | IL OR G               | AS WELI                                  | _                |
| LOCATE WELL COR  | RECTLY No. cho                                   |                                      |                       | <b></b>                                  |                  |
| Company  |  | Address                              |                       | Accelone T                               |                  |
| Lessor or Tract  | 21. 256 ter                                      | Field                                |                       | - State                                  |                  |
| Well No. Sec   | )T   | - Meridian                           | Cou                   | nty                                      | ·····            |
| Location ft  | of Line and                                      | ft                                   | ine of                | Eleva<br>(Derrick f                      | tion <b>Mass</b> |
| The information g<br>so far as can be determ   | given herewith is a co<br>nined from all availab | mplete and correct<br>le records     | record of the w       | ll and all work d                        | one thereon      |
| March 8, 196   |  | ble records.<br>Signed               | un (.                 | Jonet                                    |                  |
| Date   |  |                                      |                       | A DAY OFCIDE                             | inniger          |
|  | this page is for the co                          |                                      |                       |  |                  |
| Commenced drilling   |  | , 19 Finished                        | l drilling            | <b>h l</b>                               | , 1              |
|  | OIL OI   | R GAS SANDS OR                       | ZONES                 |  |                  |
| No. 1, from  | to to  | (Denote gas by G)<br>No. 4. f        | rom                   | to                                       |                  |
| No. 2, from  | to both  |                                      |                       | to                                       |                  |
| No. 3, from  | to   |                                      |                       | to                                       |                  |
|  | IMPC   | ORTANT WATER S                       |                       |  |                  |
| No. 1, from  | to   | No. 3, f                             | rom                   | to                                       |                  |
| No. 2, from  | to   |                                      | rom                   | to                                       |                  |
|  |  | CASING RECORI                        | )                     |  |                  |
| Size Weight Three<br>casing per foot in  | ads per Make Am                                  | nount Kind of shoe C                 | Cut and pulled from   | Perforated<br>From                       | Purpose          |
|  |  | TP ar an Inderst marter              | nat used, position, s | nd results of pump                       | 2-01-20101112t   |
| A file of his for the second s | ik and isults.<br>well, gi isize s               | Johnere my shanges a<br>If the has b | oon al manarcai Sala  | anciendi hosmañ                          | she manya.       |
| It is of the greatest int  | BOTTERCE TO-LEVE 3 COUNTY                        | (Delistory of dispersion             | Perse state in d      | n se |                  |
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|  | MUDDING  | AND CEMENTIN                         | G RECORD              |  |                  |
| Size Where set   | Number sacks of cement                           | Method used                          | Mud gravity           | Amount of m                              | nd need          |
| casing Where see   | 300  |                                      | se en                 |  |                  |
| P 1728.71  | 100  |                                      | 14.6                  |  |                  |
|  | Swang  |                                      |                       | inte-full                                |                  |
|  |  | UGS AND ADAPT                        | ERS                   |  |                  |
|  |  |                                      |                       | epth set                                 |                  |
| Heaving plug-Materi  |  | -                                    |                       |  |                  |
|  | 2  | Size                                 |                       |  |                  |
|  |  | HOOTING RECOR                        |                       |  |                  |
|  |  |                                      | 2D                    | Depth clean                              |                  |
| Heaving plug—Materi<br>Adapters—Material<br>Size Shell used  | S  | HOOTING RECOR                        | RD<br>e Depth shot    | Depth clean                              |                  |
| Adapters — Material  | S  | Quantity Date                        | 8D<br>e Depth shot    | Depth clean                              |                  |

|   |   |   | DATES  |
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|   |   |   | Put to producing   |
| The produ   | iction for the firs   | st 24 hours was   | barrels of fluid of which% was oil;%   |
|   | % water; and  |   | Gravity, °Bé.  |
| If gas well   | , cu. ft. per 24 h  | ours  | Gallons gasoline per 1,000 cu. ft. of gas  |
| Rock pres   | sure, lbs. per sq.  | in  |  |
| J. C. Hurdin  |   |   | PLOYEES Driller  |
| 0. E. Crass   |   |   | , Driller<br>, Driller   |
|   |   |   | TION RECORD  |
| FROM-   | то—   | TOTAL FEET  | FORMATION  |
| 746<br>870<br>975<br>1156<br>1256<br>1256<br>1257<br>1259<br>1259<br>1259<br>1259<br>1259<br>1259<br>1259<br>1259 | 975<br>1116<br>2971<br>3125<br>3175<br>3175<br>3190<br>1339<br>1576<br>1576<br>1576<br>1576<br>1576<br>1576 | 100<br>25<br>150<br>160<br>50<br>25<br>1129<br>223<br>54<br>161 | intydrite<br>Shale & Antydrite<br>Intydrite & Sd.t<br>Intydrite<br>Salt<br>Antydrite<br>Salt & Antydrite<br>Shaley Lime<br>Saud - Total Dapth<br>Plug Back Swid Hapth<br>Inscriptions. |
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| FORMATION  | TOTAL FEET   | OT                             | -WO21         |

## FORMATION RECORD—Continued

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Perry Federal No. 579 CORE #1

Core #1: 4585-4660', cut and recovered 75'. Core cut between 6:15 and 8:30 p.m., 2-28-61. Net coring time 1 hour, 45 minutes.

| <ul> <li>4385 4592 7' SAND - light gray, very fine, slightly shaley, tight, very light stain, good odor and fluorescence.</li> <li>4600 4602 2' SAND - light gray, fine to medium fine, clean, friable, trace of pink feldspar, sccellent door and fluorescence.</li> <li>4600 4602 4' SAND - Light gray, fine to medium fine, clean, friable, excellent fluorescence and odor.</li> <li>4613 4615 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4635 4636 1' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4636 4637 1' 6AND - Light gray, fine to fine, clean, friable, excellent fluorescence and excellent door.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4638 4635.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4635. 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4635. 0.5' SAND - Light gray, very fine to fine, clean, friable, with muse module fluorescence and odor.</li> <li>4639 4651 11' SAND - Light gray, very fine to fine, clean, friable, with muse fluorescence and odor.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine, tight, fisht, gray, very fine, tight gray, the fisht fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine, tight, well cemented, light gray.</li> <li>4654 4659 5' SAND - Light gray, very fine, tight, well cemented, sl</li></ul>   | From         | To            | Length    | Description   |
|--|--------------|---------------|-----------|---|
| <ul> <li>4592 4600 8' SAND - Light gray, fine to medium fine, clean, friable, trace of pink feldspar, excellent door and excellent fluorescence.</li> <li>4600 4602 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and excellent fluorescence.</li> <li>4613 4615 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4613 4615 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4613 4615 2' SAND - Light gray, very fine, tight, vell cemented, hard, fair door, good laminated fluorescence.</li> <li>4633 4635 1' SAND - Light gray, very fine, tight, vell cemented, hard, fair door, good laminated fluorescence.</li> <li>4634 4636 1' SAND - Light gray, very fine to fine, friable, clean, friable, excellent door and fluorescence.</li> <li>4638 4636 1' SAND - Light gray, very fine to fine, clean, friable, excellent door.</li> <li>4638 4638 1. SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4638 4638 1. SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4638 4638 1. SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4639 4651 11' SAND - Light gray, very fine to fine, clean, friable, vert and door.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, vert and excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, vith excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, fiable, clean to alightly shaley, vert fine, fiable, clean to alightly shaley, with 16' of scattered on, show.</li> <li>4654 4659 5' SAND - Light gray, very fine, to fine, slightly shaley, tight, were fine, fight, were fine, fight, were fine, fight, were fine, fight, were fine, fight gray, were fine, to fine, slightly fisht door and fluorescence, light gray, were fine, to fine, slightly fisht d</li></ul>   | 4585         | 4592          |           |   |
| <ul> <li>4592 4600 8' SAND - light gray, fine to medium fine, clean, friable, trace of pink feldepart, excellent door and excellent fluorescence.</li> <li>4600 4602 2' SAND - light gray, fine to medium fine, clean, friable, excellent fluorescence and odor.</li> <li>4613 4615 2' SAND - Fine, clean to alightly argulaceous, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, fine to medium fine, clean, friable, excellent door and fluorescence.</li> <li>4634 4635 1' SAND - Light gray, fine, fine, friable, clean, friable, excellent door good laminated fluorescence.</li> <li>4636 4637 1' &amp; AND - Light gray, very fine to fine, clean, friable, excellent fluorescence and excellent door.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, with muscle gray, very fine to fine, clean, friable, setther fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, with muscle gray, very fine to fine, clean, friable, with muscle gray, very fine to fine, clean, friable, with muscle gray, wery fine to fine, clean, friable, with muscle gray, setther door and fluorescence, and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, with muscle gray, excellent door and fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine, to fine, clean, friable, with muscle, were fine, clean, friable, define, fine, f</li></ul>   |              |               |           |   |
| <ul> <li>trace of pink feldspar, excellent odor and excellent fluorescence.</li> <li>4600</li> <li>4602</li> <li>4613</li> <li>4613</li> <li>4615</li> <li>4614</li> <li>4615</li> <li>4615</li> <li>4615</li> <li>4617</li> <li>4618</li> <li>4615</li> <li>4618</li> <li>4618</li> <li>4619</li> <li>4619</li> <li>4619</li> <li>4619</li> <li>4619</li> <li>4610</li> <li>4613</li> <li>4615</li> <li>4611</li> <li>4613</li> <li>4615</li> <li>4613</li> <li>4615</li> <li>4613</li> <li>4615</li> <li>4633</li> <li>4635</li> <li>4631</li> <li>4635</li> <li>4635</li> <li>4635</li> <li>4635</li> <li>4635</li> <li>4636</li> <li>4637</li> <li>4638</li> <li>4637</li> <li>4638</li> <li>4638</li> <li>4638</li> <li>4638</li> <li>4638</li> <li>4639</li> <li>4639</li> <li>4631</li> <li>4630</li> <li>4631</li> <li>4631</li> <li>4631</li> <li>4632</li> <li>4633</li> <li>4633</li> <li>4634</li> <li>4634</li> <li>4635</li> <li>4635</li> <li>4636</li> <li>4637</li> <li>4638</li> <li>4638</li> <li>4638</li> <li>4639</li> <li>4639</li> <li>4639</li> <li>4631</li> <li>4630</li> <li>4631</li> <li>4633</li> <li>4634</li> <li>4640</li> <li>4641</li></ul>  | 4592         | 4600          | 81        |   |
| <ul> <li>fluorescence.</li> <li>6400 4602 2' SARD - Hight gray, fine to medium fine, clean, slightly friable to tight, excellent odor and fluorescence.</li> <li>4613 4615 2' SARD - Hight gray, fine to medium fine, clean, friable, excellent odor and fluorescence.</li> <li>4613 4615 2' SARD - Light gray, fine to medium fine, clean, friable, excellent odor and fluorescence.</li> <li>4633 4635 2' SARD - Light gray, rury fine, tight, well cemented, hard, fair odor, good laminated fluorescence.</li> <li>4636 4637 1' GARD - Light gray, very fine to fine, friable, clean, friable, excellent fluorescence and excellent odor.</li> <li>4636 4637 1' GARD - Light gray, very fine to fine, lean, friable, excellent fluorescence and excellent odor.</li> <li>4636 4637 1' GARD - Light gray, very fine to fine, lean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SARD - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SARD - Light gray, very fine to fine, clean, friable, with mnumerus shale nodule inclusions, excellent to and odor.</li> <li>4651 4653 2' SARD - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4653 4654 1' SARD - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent dor.</li> <li>4654 4653 2' SARD - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent dor.</li> <li>4654 4659 5' SARD - Light gray, very fine, clean, very fine, tight shaley, with 16' of scattered no show.</li> <li>4654 4659 5' SARD - Light gray, very fine, clean, very fine, tight shaley, were fine, friable, clean to alightly shaley, excellent dor and fluorescence, ight gray.</li> <li>4650 4651 1' SARD - Light to dark gray, laminated with very fine, tight, well cemented, slightly shaley, very fine, tight, well cemented, slightly shaley, very fine, tight, well cemented, slightly arguitaceous, no show.<td></td><td></td><td></td><td>trace of pink feldspar, excellent odor and excellent</td></li></ul>  |              |               |           | trace of pink feldspar, excellent odor and excellent            |
| friable to tight, excilent odor and fluorescence.         4602       4613       11'       SAND - Light gray, fine to medium fine, clean, friable, excellent odor and fluorescence.         4613       4615       2'       SAND - Fine, clean to alightly argilisecous, friable, excellent odor and fluorescence.         4613       4615       2'       SAND - Light gray, fine to medium fine, clean, friable, excellent odor and fluorescence.         4633       4635       2'       SAND - Light gray, very fine, tight, vell cemented, hard, fair odor, good laminated fluorescence.         4636       4637       1'       GAND - Light gray, very fine to fine, lean, excellent fluorescence and odor.         4638       4638.5       0.5'       SAND - Light gray, very fine to fine, lean, friable, excellent fluorescence and odor.         4638       4638.5       SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.         4640       4651       1'       SAND - Light gray, very fine to fine, clean, friable, versence, and odor.         4651       1'       SAND - Light gray, very fine to fine, clean, friable, versence, and odor.         4653       4653       2'       SAND - Light gray, very fine to fine, clean, friable, vith shale inclusions, excellent fluorescence, and odor.         4654       4653       2'       SAND - Light gray, very fine to fine, clean, very how.         4654       465  |              |               |           |   |
| 4602       4613       11'       SAND - Light gray, fine to medium fine, clean, finable, excellent door and fluorescence. Light gray, the to medium fine, clean, to alightly argillaccous, friable, excellent door and fluorescence.         4613       4615       2'       SAND - Light gray, fine to medium fine, clean, finable, excellent door and fluorescence.         4633       16'       SAND - Light gray, very fine to fine, finable, clean, finable, excellent door, fait door, good laminated fluorescence.         4636       4637       1'       SAND - Light gray, very fine to fine, clean, finable, clean, excellent fluorescence and excellent door.         4636       4637       1'       SAND - Light gray, very fine to fine, clean, finable, excellent fluorescence and odor.         4638       6638.5       0.5'       SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.         4638       4638.5       SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.         4640       4651       1'       SAND - Light gray, very fine to fine, clean, friable, excellent odor.         4651       4653       2'       SAND - Light gray, very fine to fine, clean, friable, excellent odor.         4654       4653       2'       SAND - Light gray, very fine to fine, clean, friable, excellent odor.         4654       4654       1'       SAND - Light gray, very fine, clean, very hore, clean, friable, clean to alightly arishi   | 4600         | 4602          | 2 '       | SAND - light gray, fine to medium fine, clean, slightly         |
| <ul> <li>4602 4613 11' SAND - Light gray, fine to medium fine, clean, friable, excellent fourorescence and door.</li> <li>4613 4615 2' SAND - Fine, clean to slightly argillaceous, friable, excellent door and fluorescence.</li> <li>4613 4633 18' SAND - Light gray, very fine to fine, clean, friable, excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, very fine to fine, friable, clean, excellent fluorescence.</li> <li>4633 4635 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4634 4637 1' GAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4635 4636 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, with mumerous hale nodule inclusions, excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, with doft.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with doft.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to alightly aheley, excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with end the gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hight, gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hight, gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, slity, very shaley, tight, well cemented, slightly at slity aend. No show.</li> <li>4656 457 5' SAND - Light gray, very fine, fight, with very fine, tight, slity argillaceous, no show.</li> <li>4656 4650 7' SHALE- Light to dark gray, laminated with very fine, t</li></ul>   |              |               |           | friable to tight, excellent odor and fluorescence.              |
| <ul> <li>4613 4615 2' SAND - Fine, clean to slightly argilizeous, frisble,<br/>excellent door and fluorescence. light gray,<br/>4615 4633 18' SAND - Light gray, very fine, tight, well camented, hard,<br/>4633 4635 2' SAND - Light gray, very fine, tight, well camented, hard,<br/>4635 4636 1' SAND - Light gray, very fine to fine, frisble, clean,<br/>4636 4637 1' GAND - Light gray, very fine to fine, frisble, clean,<br/>4637 4638 1' SAND - Light gray, very fine to fine, clean, frisble,<br/>4638 4637 1' GAND - Light gray, very fine to fine, clean, frisble,<br/>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, frisble,<br/>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, frisble,<br/>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, frisble,<br/>4638 4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, frisble,<br/>4640 4651 11' SAND - Light gray, very fine to fine, clean, frisble,<br/>4651 4653 2' SAND - Light gray, very fine to fine, frisble, vith<br/>4654 4659 5' SAND - Light gray, very fine to fine, frisble, dlean to<br/>4654 4659 5' SAND - Light gray, very fine to fine, frisble, dlean to<br/>4654 4659 5' SAND - Very fine to fine, frisble, clean to<br/>4654 4659 5' SAND - Very fine to fine, frisble, clean, frisble, with<br/>4654 4659 5' SAND - Very fine to fine, frisble, clean, frisble, with<br/>4654 4659 5' SAND - Very fine to fine, frisble, clean to<br/>4654 4659 5' SAND - Very fine to fine, frisble, clean, frisble, with<br/>4654 4650 1' SAND - Light gray, very fine, clean, very hard, tight,<br/>4656 4665 2' SHALZ- Light to dark gray, laminated, with very fine, tight,<br/>4657 4660 5' SHALZ- Light to dark gray, laminated, with very fine, tight,<br/>4658 4665 2' SHALZ- Light to dark gray, laminated with very fine, tight,<br/>4659 4661 1' SAND- Light gray, very fine, silty, very shaley, tight.<br/>4650 4651 1' SAND- Light gray, very fine, silty, very shaley, tight.<br/>4651 4671 4672 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>4651 4660 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>4653 4650 7' SAND- Light gray, very fine, tight, well c</li></ul> | 4602         | 4613          | 11'       | SAND - Light gray, fine to medium fine, clean, friable,         |
| <ul> <li>excellent dors and fluorescence, light gray.</li> <li>6415 4633 18' SAND - Light gray, fine Co medium fine, clean, frisble, excellent door and fluorescence.</li> <li>6433 4635 2' SAND - Light gray, very fine, tight, well comented, hard, fair odor, good laminated fluorescence.</li> <li>6436 4637 1' SAND - Light gray, very fine, tight, well comented, hard, excellent fluorescence and excellent fluorescence.</li> <li>6437 4638 1' SAND - Light gray, very fine, tight, well comented, hard, fair odor, good laminated fluorescence.</li> <li>6438 4638. 0.5' SAND - Light gray, very fine to fine, clean, frisble, excellent fluorescence and odor.</li> <li>6430 4631 1' SAND - Light gray, very fine to fine, clean, frisble, excellent fluorescence and odor.</li> <li>6440 4651 11' SAND - Light gray, very fine to fine, clean, frisble, excellent fluorescence and odor.</li> <li>6450 4653 2' SAND - Light gray, very fine to fine, clean, frisble, excellent fluorescence and odor.</li> <li>6451 4653 2' SAND - Light gray, very fine to fine, clean, frisble, excellent fluorescence, light gray.</li> <li>6453 4654 1' SAND - Light gray, very fine to fine, clean, frisble, with anale inclusions, excellent fluorescence, light gray.</li> <li>6453 4654 1' SAND - Light gray, very fine to fine, clean, frisble, with anale inclusions, excellent fluorescence, light gray.</li> <li>6459 4650 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>659 660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>651 4655 2' SHALE. Light to dark gray, laminated with very fine, tight, alight gray, and show.</li> <li>663 4656 2' SHALE. Light to dark gray, laminated with very fine, tight, alight gray, very fine, silty, wery shaley, tight.</li> <li>6640 4653 3' SAND - Light gray, very fine, silty, very shaley, tight.</li> <li>665 4' SHALE. Light to dark gray, laminated with very fine, tight, alightly arguitacous, no show.</li> <li>666 4670 5' SHALE. Light to dark</li></ul>   |              |               |           |   |
| <ul> <li>4615</li> <li>4633</li> <li>18' SAND - Light gray, fine to medium fine, clean, friable,<br/>excellent door and fluorescence.</li> <li>4635</li> <li>4635</li> <li>4636</li> <li>4636</li> <li>4637</li> <li>4638</li> <li>4639</li> <li>4640</li> <li>4651</li> <li>4651</li> <li>4654</li> <li>4653</li> <li>4654</li> <li>465</li></ul>   | 4613         | 4 <b>6</b> 15 | 2'        | SAND - Fine, clean to slightly argillaceous, friable,           |
| <ul> <li>excellent door and fluorescence.</li> <li>4633 4635 2' SAND - Light gray, very fine, tight, well cemented, hard, fair door, good laminated fluorescence.</li> <li>4636 4637 1' SAND - Light gray, very fine, tight, well cemented, hard, fair door, good laminated fluorescence.</li> <li>4637 4638 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4638 4638.5 11' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, fiable, clean to alightly shaley, excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, fiable, clean to alightly shaley, excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, fiable, clean to slightly shaley, excellent fluorescence and door.</li> <li>4654 4659 5' SAND - Light gray, very fine, clean, very fine, tight, well cemented, calcareous, no show.</li> <li>4660 4661 1' SAND - Light gray, very fine, clean, very fine, tight, well cemented, calcareous, no show.</li> <li>4674 4671 5' SHALE- Light to dark gray, laminated with very fine, tight, silty and. No show.</li> <li>4674 4671 1' SHALE- Light to dark gray, laminated with very fine, tight, silty areand. No show.</li> <li>4674 4671 1' SHALE- Light to dark gray, laminated with very fine, tight, silty areand. No show.</li> <li>4674 4671 1' SHALE- Light to dark gray, laminated with very fine, tight, silty areand. No show.</li> <li>4674 4683 2' SHALE- Black.</li> <li>4680 4681 1' SAND - Light gra</li></ul>   |              |               |           | excellent odor and fluorescence, light gray.                    |
| <ul> <li>4633 4635 2' SAND - Light gray, very fine, tight, well cemented, hard, fair odor, good laminated fluorescence.</li> <li>4636 4637 1' SAND - Light gray, very fine to fine, friable, clean, excellent fluorescence and excellent odor.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with anale inclusions, excellent fluorescence, light gray.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with anale inclusions, excellent fluorescence, light gray.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent dor and fluorescence, light gray.</li> <li>4654 4659 5' SAND - Very fine to fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4660 4661 1' SAND - Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4671 4671 1' SHALE Light to dark gray, laminated with very fine, tight, silty and.</li> <li>4672 4680 7' SAND - Light gray, very fine, alightly friable, tight.</li> <li>4674 4681 1' SAND - Black. No show.</li> <li>4674 4671 1' SHALE Black.</li> <li>4671 4672 1' SAND - Light gray, very fine, tight, well cemented, slightly arisity arkoic, good odor, good yellow-green fluorescence.</li> <li>4681 4683 2' SAND - Light gray, very fine, tight, well cemented, slightly argilaccous, on show.</li> <li>4690 4691 1' SAND</li></ul>   | 4615         | 4633          | 18'       | SAND - Light gray, fine to medium fine, clean, friable,         |
| <ul> <li>fair odor, good laminated fluorescence.</li> <li>4635</li> <li>4636</li> <li>4637</li> <li>4636</li> <li>4637</li> <li>4638</li> <li>4637</li> <li>4638</li> <li>4649</li> <li>4651</li> <li>4651</li> <li>4653</li> <li>4654</li> <li>4653</li> <li>4654</li> <li>4653</li> <li>4654</li> <li>4653</li> <li>4654</li> <li>4654</li> <li>4655</li> <li>4660</li> <li>4651</li> <li>4654</li> <li>4659</li> <li>4650</li> <li>4651</li> <li>4651</li> <li>4651</li> <li>4651</li> <li>4651</li> <li>4651</li> <li>4652</li> <li>4652</li> <li>4653</li> <li>4654</li> <li>4653</li> <li>4654</li> <li>4659</li> <li>4650</li> <li>4651</li> <li>4652</li> <li></li></ul>   | 1100         | 1605          |           |   |
| <ul> <li>4635 4636 1' SAND - Light gray, very fine to fine, friable, clean, excellent fluorescence and excellent fluorescence.</li> <li>4637 4638 1' SAND - Light gray, very fine to fine, clean, friable, fair odor, good lamineted fluorescence.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable with unmerous shale nodule inclusions, excellent fluorescence and odor.</li> <li>4636 4631 1' SAND - Light gray, very fine to fine, clean, friable with unmerous shale nodule inclusions, excellent fluorescence and odor.</li> <li>4638 4654 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4654 4653 2' SAND - Light gray, very fine to fine, clean friable, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean friable, with shale inclusions, excellent dodr.</li> <li>4654 4659 5' SAND - Light gray, very fine, clean, the shale, with shale inclusions, excellent dodr.</li> <li>4654 4659 5' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, solar and underscence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, silty, very fine, tight, solar or and fluorescence, light gray.</li> <li>4660 4663 3' SHALE Light to dark gray, laminated, with very fine, tight, solar or or solar o</li></ul>   | 4033         | 40.35         | 2.        | SAND - Light gray, very fine, tight, well cemented, hard,       |
| <ul> <li>4636 4637 1' GAND - Light gray, very fine, tight, well comented, hard, fair odor, good laminated fluorescence.</li> <li>4637 4638 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, eacellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, eacellent fluorescence and odor.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, eacellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, eacellent fluorescence, light gray.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to alightly shaley, wery fine, clean to alight gray.</li> <li>4654 4659 5' SAND - Light gray, very fine, clean to alight gray.</li> <li>4654 4659 5' SAND - Very fine to fine, clean to alight gray.</li> <li>4654 4659 5' SAND - Very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4654 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4659 4660 1' SAND - Light to dark gray, laminated with very fine, tight silty send. No show.</li> <li>4653 4665 2' SHALE Black. No show.</li> <li>4654 4670 5' SHALE Jight to dark gray, laminated with very fine, tight, silty send.</li> <li>4671 46724 1' SAND - Light gray, very fine, silty, very shaley, tight.</li> <li>4683 4690 7' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4684 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4713 4713 5' SAND - Light gray, very fin</li></ul>   | 1625         | 1.636         | • t       | Iair odor, good laminated fluorescence.                         |
| <ul> <li>4636 4637 1' 4AD - Light gray, very fine, tight, well cemented, hard, fair odor, good laminated fluorescence.</li> <li>4637 4638 1' SAND - Light gray, very fine to fine, clean, friable,</li> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, clean, friable,</li> <li>4638 4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable with</li></ul>  | 4033         | 4030          | 1         | SARD - Light gray, very fine to fine, friable, clean,           |
| 4637       4638       1'       SAND - Light gray, very fine to fine, clean, finable, excellent fluorescence and dor.         4638       4638.5       0.5'       SAND - Light gray, very fine to fine, clean, finable, excellent fluorescence and dor.         4638       4638.5       4638.5       SAND - Light gray, very fine to fine, clean, finable, excellent fluorescence and dor.         4640       4651       11'       SAND - Light gray, very fine to fine, clean, finable, excellent fluorescence and dor.         4651       4653       2'       SAND - Light gray, very fine to fine, clean, finable, with excellent fluorescence and dor.         4653       4654       1'       SAND - Very fine to fine, clean to slight gray, very fine to fine, clean to slight gray.         4654       4659       SAND - Very fine to fine, clean to slight gray.         4654       4660       1'       SAND - Very fine, clean to slight gray.         4654       4660       1'       SAND - Light gray, very fine, clean, very hine, tight, well cemented, calcareous, no show.         4654       4665       SAND - Light gray, very fine, clean, friable, clean  | 4636         | 4637          | 11        |   |
| <ul> <li>4637 4638 1' SARD - Light gray, very fine to fine, clean, friable,<br/>excellent fluorescence and odor.</li> <li>4638.5 4640 1.5' SAND - Light gray, very fine to fine, hard, tight, no show.</li> <li>4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable with mumerous shale nodule inclusions, excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, friable, clean to<br/>alightly shaley, with 16" of scattered <u>no</u> show.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with<br/>anale inclusions, excellent fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with<br/>anale inclusions, excellent fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight,<br/>well cemend, calcareous, no show.</li> <li>4653 4653 3' SANE - Light to dark gray, laminated, with very fine, tight<br/>salley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, silty, very fine, tight,<br/>salley and. No show.</li> <li>4660 4663 3' SANE - Light to dark gray, laminated, with very fine, tight<br/>salley and. No show.</li> <li>4665 4670 5' SHALE - Light to dark gray, laminated with very fine, tight,<br/>sality sand.</li> <li>4671 4672 1' SAND - Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4683 4' SAND - Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4683 4' SAND - Light gray, very fine, tight, with shale<br/>laminations.</li> <li>4683 4' SAND - Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4681 1' SAND - As above with no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4702 11' SAND - Light gray, very fine, tight, hard, very shaley to<br/>shew.</li> <li>4713 4715 2' SAND - Light gray, very fine to fine, clean</li></ul>  | -030         | 4037          | *         |   |
| <ul> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, hard, tight, no show.</li> <li>4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable, with numerous shale nodule inclusions, excellent fluores. and odor.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Very fine to fine, friable, clean to show.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cenented for all clear coust, no show.</li> <li>4660 4663 3' SALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated with very fine, tight, silty sand. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4672 13' SAND - Light gray, very fine to fine, slightly friable, tight. No show.</li> <li>4683 4660 7' SAND - Light gray, very fine, to fine, slightly friable, tight.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4690 4681 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slight</li></ul>   | 4637         | 4638          | 1'        |   |
| <ul> <li>4638 4638.5 0.5' SAND - Light gray, very fine to fine, hard, tight, no show.</li> <li>4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable with mumerous shale nodule inclusions, excellent fluores.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, finable, clean to alightly shaley, with 16' of scattered no show.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to alightly shaley, excellent door and fluorescence, and odor.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, slight gray, very fine, slity sende.</li> <li>4660 4651 3' SANE - Light to dark gray, laminated, with very fine, tight silty sand.</li> <li>4651 4670 5' SHALE - Light to dark gray, laminated with very fine, tight, silty sand.</li> <li>4671 46724 14' SAND - Light gray, very fine, slity, very shaley, tight. No show.</li> <li>4681 4683 2' SAND - Light gray, very fine, slity, very shaley, tight.</li> <li>4690 4681 1' SAND - Light gray, very fine, tight, with shale laminations.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4703 4715 4728 5' SAND - Light gray, very fine to medium fine, clean, friable, no show.</li> <li>4714 4724 5' SAND - Light gray, very fine to show.</li> <li>4723</li></ul>  |              |               | • .       |   |
| <ul> <li>4638.5 4640 1.5' SAND - Light gray, very fine to fine, clean, friable with mumerous shale nodule inclusions, excellent fluores. and odor.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable, clean to slightly shaley, with 16" of scattered no. show.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, very 4653 4654 1' SAND - Light gray, very fine to fine, clean to slightly shaley, with 16" of scattered no. show.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcarcous, no show.</li> <li>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight silty sand.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4680 4681 1' SAND - Light gray, very fine, tight, wild cemented, slightly arcsic, good odor, good yellow-green fluorecocce.</li> <li>4680 4681 1' SAND - Light gray, very fine, tight, will cemented, slightly argilaceous, no show.</li> <li>4681 4683 2' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4702 4713 11' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4714 4725 8' SAND - Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 4715 2' SHALE- Elack.</li> <li>4731 4735 4'' SAND - Light gray, very fine, tight, hard, very sheley to show.</li> <li>4731 4735 4</li></ul>   | 4638         | 4638.5        | 0.5'      |   |
| <ul> <li>numerous shale module inclusions, excellent fluores.<br/>and odor.</li> <li>4640 4651 11' SAND - Light gray, very fine to fine, clean, friable,<br/>excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, clean, friable, with<br/>ahale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly<br/>shale, excellent door and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight,<br/>well cemented, calcareous, no show.</li> <li>4654 4667 5', cut and recovered 75'.</li> <li>Pfinished cutting core 7:13 a.m. 3-1-61.</li> <li>Met coring time 5 hrs. 49 min.</li> <li>4654 4670 5' SHALE- Light to dark gray, laminated, with very fine, tight<br/>silty send. No show.</li> <li>4654 4670 5' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4671 4672 1½' SAND - Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4672 4680 7½' SAND - Light gray, very fine, slightly friable, tight<br/>silty send.</li> <li>4681 4683 2' SAND - Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>4681 4683 2' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4672 4 4680 7½' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4681 4683 2' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4681 4683 2' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4690 4691 1' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4702 11' SAND - Light gray, very fine, tight, well cemented, slightly<br/>arguilaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 6' SAND - Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated with very thin silty-<br/>shaley sand stringers. No show.</li> <li>4724 4731 3' SHALE- Light to dark gray, laminated with very</li></ul>  | -            |               |           | SAND - Light grav, very fine to fine clean frishle with         |
| and odor.4640465111'SAND - Light gray, very fine to fine, friable, clean to<br>alightly shaley, with 16' of scattered no<br>show.465146532'3AND - Light gray, very fine to fine, friable, clean to<br>alightly shaley, with 16' of scattered no<br>shale inclusions, excellent fluorescence and odor.465346541'3AND - Very fine to fine, friable, clean to<br>shale inclusions, excellent fluorescence and odor.465446595'3AND - Very fine to fine, friable, clean to slightly<br>shaley, excellent door and fluorescence, light gray.465946601'3AND - Light gray, very fine, clean, very hard, tight,<br>well cemented, calcareous, no show.465946601'SHALE - Light to dark gray, laminated, with very fine, tight<br>silty sand. No show.466346633'3HALE - Black. No show.466446714670467146715'3HALE - Black.467246804681468346814681468346814683469046911'3AND - Light gray, very fine, tight, well cemented, slightly<br>argilaceous, no show.4683469046911'470211'3AND - Light gray, very fine, tight, well cemented, slightly<br>argilaceous, no show.468146834683469046911'3AND - Light gray, very fine, tight, well cemented, slightly<br>argilaceous, no show.46834690<  |              |               |           |   |
| <ul> <li>4651 4653 2' SAND - Light gray, very fine to fine, friable, clean to slightly shaley, with 16' of scattered no show.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent door and fluorescence, and odor.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, vell cemented, calcareous, no show.</li> <li>Core \$2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4664 4665 2' SHALE- Light to dark gray, laminated with very fine, tight silty sand. No show.</li> <li>4670 4671 1' SHALE- Jight gray, very fine, silty, very shaley, tight. No show.</li> <li>4671 46724 14' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4680 4681 1' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, with shale laminations.</li> <li>4680 4681 1' SAND- Light gray, very fine, tight, with shale</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, with shale</li> <li>4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4724 4723 5' SHALE- Light to dark gray, laminated with very shaley to show.</li> <li>4723 4728 5' SHALE- Black.</li> <li>4731 4735 4' SND- Light gray, very fine, tight, hard, very shaley to shaley sand stringers. No show.</li> </ul>  |              |               |           |   |
| <ul> <li>excellent fluorescence and odor.</li> <li>4651 4653 2' SAND - Light gray, very fine to fine, friable, clean to alightly shaley, with 16" of scattered no. show.</li> <li>4654 4659 5' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence, and odor.</li> <li>4654 4659 5' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated with very fine, tight, ailty sand. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4680 4681 1' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4714 4724 5' SAND- Light gray, very fine, tight, well cemented, slightly argilaceous, no show.</li> <li>4714 4725 4' SAND- Light gray, very fine, tight, hard, very shaley to show.</li> <li>4724 473 3' SHALE- Black.</li> <li>4731 4735 4' SAND- Light gray, very fine, tight, hard, very shaley to show.</li> <li>4724 4731 3' SHALE- Black.</li> <li>4731 4735 4' SHAD- Light gray, very fine, tight, hard, very shaley to sheley sand stringers. No show.</li> </ul>   | <b>46</b> 40 | 4651          | 11'       | SAND - Light gray, very fine to fine, clean, friable,           |
| <ul> <li>alightly shaley, with 16" of scattered no. show.</li> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence, and dor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent dor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight silty send. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4660 4671 1' SHALE- Light to dark gray, laminated with very fine, tight. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4713 4725 5' SAND- Light gray, very fine, tight, hard, very shaley, to show.</li> <li>4724 4731 3' SHALE- Black.</li> </ul>   |              |               |           | excellent fluorescence and odor.                                |
| <ul> <li>4653 4654 1' SAND - Light gray, very fine to fine, clean, friable, with shale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly shaley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.</li> <li>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4664 4663 4665 2' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Light to dark gray, laminated with very fine, tight. silty sand.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4670 4671 1' SHALE- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4680 4681 1' SAND - Light gray, very fine to fine, slightly friable, tight slightly arkosic, good odor, good yellow-green fluorecence.</li> <li>4680 4681 1' SAND - Light gray, very fine, tight, with shale laminations.</li> <li>4683 4690 7' SAND - Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argiliaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND - Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4713 4715 2' SHALE - Light gray, very fine, tight, hard, very shaley, to show.</li> <li>4723 4728 5' SHALE - Light to dark gray, laminated into show.</li> <li>4724 4731 3' SHALE - Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE - Light to dark gray, laminated, no show.</li> <li>4724 4731 3' SHALE - Light to dark gray, laminated, no show.</li> </ul>   | 4651         | 4653          | 2'        | SAND - Light gray, very fine to fine, friable, clean to         |
| <ul> <li>ahale inclusions, excellent fluorescence and odor.</li> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly<br/>shaley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight,<br/>well cemented, calcareous, no show.<br/>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.<br/>Net coring time 5 hrs. 49 min.</li> <li>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight<br/>silty sand. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4664 4670 5' SHALE- Light to dark gray, laminated with very fine, tight,<br/>silty sand.</li> <li>4670 4671 1' SHALE- Light to dark gray, laminated with very fine, tight.<br/>No show.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4681 4683 2' SAND- Light gray, very fine to fine, slightly friable, tight.<br/>slightly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4724 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley, sand stringers. No show.</li> </ul>  |              |               |           | slightly shaley, with 16" of scattered no show.                 |
| <ul> <li>4654 4659 5' SAND - Very fine to fine, friable, clean to slightly<br/>shaley, excellent odor and fluorescence, light gray.</li> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight,<br/>well cemented, calcareous, no show.<br/>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight<br/>silty sand. No show.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated with very fine, tight,<br/>silty sand.</li> <li>4660 4670 5' SHALE- Light to dark gray, laminated with very fine, tight,<br/>silty sand.</li> <li>4670 4671 1' SHALE- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4680 4681 1' SAND- Light gray, very fine to fine, slightly friable, tight,<br/>slightly arkosic, good odor, good yellow-green fluor-<br/>cecence.</li> <li>4680 4681 1' SAND- Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, slightly laminated, no show.</li> <li>4690 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, hard, very shaley to<br/>show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 4735 4' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SHALE- Black, very dense, conchoidal fracture.</li> </ul>  | 4005         | 4004          | 1.        | SAND - Light gray, very fine to fine, clean, friable, with      |
| <ul> <li>shaley, excellent odor and fluorescence, light gray.</li> <li>sAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show.<br/>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4663 4665 2' SHALE- Light to dark gray, laminated, with very fine, tight stilty sand. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4664 4671 1' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4680 4681 1' SAND- Light gray, very fine to fine, slightly friable, tight slightly arkosic, good odor, good yellow-green fluor-escence.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4724 4723 8' SAND- Light gray, very fine, tight, hard, very shaley, to show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4724 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to show.</li> <li>4723 4728 5' SHALE- Black.</li> <li>4724 4731 3' SHALE- Black.</li> <li>4731 4735 4' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SHALE- Black, very dense, conchoidal fracture.</li> </ul>   | 1.6 5 1.     | 4650          | E 1       | shale inclusions, excellent fluorescence and odor.              |
| <ul> <li>4659 4660 1' SAND - Light gray, very fine, clean, very hard, tight, well cemented, calcareous, no show. CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight silty send. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4660 4671 1' SHALE- Light to dark gray, laminated with very fine, tight, silty send.</li> <li>4670 4671 1' SHALE- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4670 4671 1' SHALE- Black. No show.</li> <li>4672 4680 7½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4724 4731 3' SHALE- Elack.</li> <li>4731 4735 4' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SHALE- Black, very fines, tight, well cemented, slightly shaley to shaley sand stringers. No show.</li> </ul>   | 4034         | 4039          | 2         | SAND - very fine to fine, friable, clean to slightly            |
| <ul> <li>well cemented, calcareous, no show.<br/>CORE #2</li> <li>Core #2: 4660-4735', cut and recovered 75'.</li> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4660 4671 1' SHALE- Black. No show.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4672¼ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight, slightly arkosic, good odor, good yellow-green fluor-escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Black.</li> <li>4724 4731 3' SHALE- Black.</li> <li>4725 4731 3' SHALE- Black.</li> </ul>  | 4659         | 4660          | 1 !       | SAND - Light gray, excellent odor and fluorescence, light gray. |
| CORE #2<br>Core #2: 4660-4735', cut and recovered 75'.<br>Finished cutting core 7:35 a.m. 3-1-61.<br>Net coring time 5 hrs. 49 min.<br>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight<br>4663 4665 2' SHALE- Black. No show.<br>4665 4670 5' SHALE- Black. No show.<br>4670 4671 1' SHALE- Light to dark gray, laminated with very fine, tight,<br>4670 4671 1' SHALE- Black.<br>4672 4680 7½' SAND- Light gray, very fine, silty, very shaley, tight.<br>Mo show.<br>4681 4683 2' SAND- Light gray, very fine to fine, slightly friable, tight,<br>4680 4681 1' SAND- Light gray, very fine, hard, tight, with shale<br>1aminations.<br>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br>4680 4681 1' SAND- Light gray, very fine, tight, well cemented, slightly<br>4680 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly<br>4702 4713 11' SAND- Light gray, very fine, tight, hard, very shaley to<br>4713 4715 2' SHALE- Black.<br>4723 4728 5' SHALE- Black.<br>4724 4731 3' SHALE- Black.<br>4725 4731 3' SHALE- Black.<br>4725 4731 3' SHALE- Black.   |              | 4000          | L         | Well computed calcaraous no show                                |
| Core #2: 4660-4735', cut and recovered 75'.<br>Finished cutting core 7:35 a.m. 3-1-61.<br>Net coring time 5 hrs. 49 min.<br>4660 4663 3' SHALE- Light to dark gray, laminated, with very fine, tight<br>ailty sand. No show.<br>4663 4665 2' SHALE- Black. No show.<br>4665 4670 5' SHALE- Light to dark gray, laminated with very fine, tight,<br>ailty sand.<br>4670 4671 1' SHALE- Black.<br>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight.<br>No show.<br>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight,<br>alightly arkosic, good odor, good yellow-green fluor-<br>escence.<br>4680 4681 1' SAND- As above with no show.<br>4681 4683 2' SAND- Light gray, very fine, tight, with shale<br>laminations.<br>4680 4691 1' SAND- As above with no show.<br>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br>argillaceous, slightly laminated, no show.<br>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly<br>4713 4715 2' SHALE- Elack.<br>4723 4728 5' SHALE- Elack.<br>4724 4731 3' SHALE- Elack, very dense, conchoidal fracture.<br>4731 4735 4' SAND- Light gray, very fine, tight, well cemented, slightly<br>4731 4735 4' SAND- Light gray, very fine, tight, hard, very shaley to<br>shaley send stringers. No show.  |              |               |           |   |
| <ul> <li>Finished cutting core 7:35 a.m. 3-1-61.</li> <li>Net coring time 5 hrs. 49 min.</li> <li>SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>SHALE- Black. No show.</li> <li>SHALE- Light to dark gray, laminated with very fine, tight, silty sand.</li> <li>SHALE- Light to dark gray, laminated with very fine, tight.</li> <li>SHALE- Black.</li> <li>SHALE- Black.</li> <li>SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>SAND- Light gray, very fine, silty, with shale laminations.</li> <li>SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to show.</li> <li>SAND- Light gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>SHALE- Black.</li> <li>SAND- Light coderk gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> </ul>   | Core #2      | 2: 4660-4     | 735'. cut |   |
| <ul> <li>Net coring time 5 hrs. 49 min.</li> <li>SHALE- Light to dark gray, laminated, with very fine, tight silty sand. No show.</li> <li>SHALE- Black. No show.</li> <li>SHALE- Light to dark gray, laminated with very fine, tight, silty sand.</li> <li>SHALE- Black. No show.</li> <li>SHALE- Black.</li> <li>SHALE- Black.</li> <li>SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>SAND- Light gray, very fine, tight, with shale laminations.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to shaley sand stringers. No show.</li> <li>SHALE- Black.</li> <li>SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>SHALE- Light to dark gray, laminated with very thin silty-shaley arg lightly laminated, no show.</li> <li>SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> </ul>   |              |               |           |   |
| <ul> <li>silty sand. No show.</li> <li>silty sand.</li> <li>sand.</li> <li>sand.&lt;</li></ul>  | Net con      | ring time     | 5 hrs. 4  | 9 min。  |
| <ul> <li>silty sand. No show.</li> <li>4663 4665 2' SHALE- Black. No show.</li> <li>4665 4670 5' SHALE- Light to dark gray, laminated with very fine, tight, silty sand.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight. slightly arkosic, good odor, good yellow-green fluor-escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 4735 4' SAND- Light gray, very fine, tight, hard, very shaley to fine show.</li> </ul>  | 4660         | 4663          | 3'        | SHALE- Light to dark gray, laminated, with very fine, tight     |
| <ul> <li>4665 4670 5' SHALE- Light to dark gray, laminated with very fine, tight, silty sand.</li> <li>4670 4671 1' SHALE- Black.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight. No show.</li> <li>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight, slightly arkosic, good odor, good yellow-green fluor-escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4683 4690 7' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argiliaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 3' SHALE- Black.</li> <li>4731 4735 4' SAND- Light gray, very fine, tight, well cemented.</li> </ul>  | 1110         |               |           |   |
| <ul> <li>silty sand.</li> <li>silty sand.</li> <li>silty sand.</li> <li>silty sand.</li> <li>shalle- Black.</li> <li>SAND- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>SAND- Light gray, very fine to fine, slightly friable, tight.<br/>SIghtly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>SAND- Light gray, very fine to fine, slightly friable, tight.<br/>SIghtly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>SAND- Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argilaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argilaceous, no show.</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argilaceous, no show.</li> <li>SAND- Light gray, fine to medium fine, clean, friable, no<br/>show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated, no show.</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated with very thin silty-<br/>shaley sand stringers. No show.</li> <li>SHALE- Black.</li> <l< td=""><td></td><td></td><td></td><td></td></l<></ul>                     |              |               |           |   |
| <ul> <li>4670 4671 1' SHALE- Black.</li> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight.<br/>slightly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 4735 4' SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated, no show.</li> </ul>  | 4003         | 4070          | 2.        | SHALE- Light to dark gray, laminated with very fine, tight,     |
| <ul> <li>4671 4672½ 1½' SAND- Light gray, very fine, silty, very shaley, tight.<br/>No show.</li> <li>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight.<br/>slightly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argiliaceous, no show,</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, hard, very shaley to<br/>show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated, no show.</li> <li>4724 4731 3'</li> <li>4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 4670         | 4671          | 1 T       |   |
| <ul> <li>4672½ 4680 7½'</li> <li>4672½ 4680 7½'</li> <li>SAND- Light gray, very fine to fine, slightly friable, tight.<br/>slightly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>4681 4683 2'</li> <li>SAND- As above with no show.</li> <li>4683 4690 7'</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4691 1'</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, slightly laminated, no show.</li> <li>4691 4702 11'</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show,</li> <li>4702 4713 11'</li> <li>SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4713 4715 2'</li> <li>SHALE- Elack.</li> <li>4723 4728 5'</li> <li>SHALE- Elack.</li> <li>4731 4735 4'</li> <li>SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley sand stringers. No show.</li> </ul>   |              |               | -         |   |
| <ul> <li>4672½ 4680 7½' SAND- Light gray, very fine to fine, slightly friable, tight, slightly arkosic, good odor, good yellow-green fluor-escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 4735 4' SAND- Light gray, very fine, to fine, tight, well cemented.</li> </ul>   | 4071         | 40742         | 12        | No show   |
| <ul> <li>slightly arkosic, good odor, good yellow-green fluor-<br/>escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale<br/>laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly<br/>argillaceous, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated, no show.</li> <li>4724 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 46723        | 4680          | 7*'       |   |
| <ul> <li>escence.</li> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show,</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  |              |               | •         | slightly arkosic, good odor, good vellow-green fluor-           |
| <ul> <li>4680 4681 1' SAND- As above with no show.</li> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show,</li> <li>4702 4713 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  |              |               |           |   |
| <ul> <li>4681 4683 2' SAND- Light gray, very fine, hard, tight, with shale laminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Elack.</li> <li>4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 4680         | 4681          | 1'        |   |
| <ul> <li>Iaminations.</li> <li>4683 4690 7' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 4681         | 4683          | 2 '       |   |
| <ul> <li>4690</li> <li>4691</li> <li>4691</li> <li>4702</li> <li>4702</li> <li>4713</li> <li>4715</li> <li>4715</li> <li>4723</li> <li>4728</li> <li>4731</li> <li>4735</li> <li>4735<td></td><td></td><td></td><td></td></li></ul>  |              |               |           |   |
| <ul> <li>argillaceous, no show.</li> <li>4690 4691 1' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, slightly laminated, no show.</li> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show.</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 4683         | 4690          | 7'        | SAND- Light gray, very fine, tight, well cemented, slightly     |
| <ul> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show,</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  |              |               |           | argillaceous, no show.  |
| <ul> <li>4691 4702 11' SAND- Light gray, very fine, tight, well cemented, slightly argillaceous, no show,</li> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  | 4690         | 4691          | 1'        |   |
| <ul> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  | 6601         | ( 709         |           |   |
| <ul> <li>4702 4713 11' SAND- Light gray, fine to medium fine, clean, friable, no show.</li> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  | 4071         | 4702          | 11.       |   |
| <ul> <li>4713 4715 2' SHALE- Black.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well comented.</li> </ul>   | 4702         | 4713          | 114       |   |
| <ul> <li>4713 4715 2' SHALE- Elack.</li> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to<br/>shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-<br/>shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>  |              |               | * *       |   |
| <ul> <li>4715 4723 8' SAND- Light gray, very fine, tight, hard, very shaley to shaley, slightly laminated, no show.</li> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.</li> </ul>   | 4713         | 4715          | 2'        |   |
| <ul> <li>4723 4728 5' SHALE- Light to dark gray, laminated with very thin silty-shaley sand stringers. No show.</li> <li>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.</li> <li>4731 4735 4' SAND- Light gray, very fine to fine, tight, well comented.</li> </ul>   |              |               |           |   |
| 472347285'SHALE- Light to dark gray, laminated with very thin silty-<br>shaley sand stringers. No show.472847313'SHALE- Black, very dense, conchoidal fracture.473147354'SAND- Light gray, very fine to fine, tight, well comented.  |              |               | -         | shaley, slightly laminated, no show.                            |
| shaley sand stringers. No show.<br>4728 4731 3' SHALE- Black, very dense, conchoidal fracture.<br>4731 4735 4' SAND- Light gray, very fine to fine, tight, well comented.  | 4723         | 4728          | 5'        |   |
| 4731 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.  |              |               |           | shaley sand stringers. No show.                                 |
| 4/31 4735 4' SAND- Light gray, very fine to fine, tight, well cemented.  |              |               | 3'        | SHALE- Black, very dense, conchoidal fracture.                  |
| hand aldahala landaasi t   | 4731         | 4735          | 4'        | SAND- Light gray, very fine to fine, tight, well comented.      |
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