



Inches

Salt Water 855 to 2240

# STATE OF WEST VIRGINIA OIL & GAS DIVISION DEPARTMENT OF MINES DEFT, OF MINES

#### Oil and Gas Division

7½ Griffithville Quadrangle 15 Madison

Coal was encountered at.

Producing Sand

Fresh water Surface to 855

ffithville WELL RECORD

Feet .

| Rotary X    | Oil              |
|-------------|------------------|
| Cable       | Gas_             |
| Recycling   | Comb             |
| Water Flood | Storage Dry Hole |
| Dienoral    | (Dry Hole)       |

Permit No. Lin-1469-Rev. P (Kind) Exxon Corporation P. O. Box 60626, New Orleans, La.70160 Tubing

Acres 28.5 Company\_ Used in Left Cement fill up Address. in Well Drilling Cu. ft. (Sks.) Farm. Location (waters) Mouth of McClure Hollow (877) Size Well No. Douglas McCormick #1 Elev 737.5' 20-16 District Duval Lincoln 26" 269 277 sks. County\_ XXXX 20" XXXXX 2300 2000 sks. The surface of tract is owned in fee by. жжех 13-3/4 8886 2920 sks. Douglas McCormick Address G.D. Alum Creek, W. Virginia 25003 10-3/4 12096 1620 sks. Mineral rights are owned by Douglas McCormick Address see above 5 1/2 7/9/73 4 1/2 Drilling Commenced\_ 6/3/74 Drilling Completed.... Initial open flow Dry Hole cu. ft. Liners Used Final production cu. ft. per day \_\_\_\_\_bbls. \_hrs. before test\_\_\_\_\_RP. Well open \_\_\_\_\_ Well treatment details: Attach copy of cementing record.

| Formation             | Color Hard         | or Soft | Top Feet     | Bottom Feet | Oil, Gas or Water * Remarks                    |
|-----------------------|--------------------|---------|--------------|-------------|--|
| Salt Sand             | Wh                 | Hard    | 855          | 1500        | Saltwater                                      |
| Greenbrier            | Ls Cream           | Soft    | 1500         | 1710        | *Drilled with air, Foam & salt water, 269-2300 |
| Pocono .              | Tan                | Soft    | 1710         | 2224        | *All tops from electric logs.                  |
| Rerea                 | White              | Soft    | 2224         | 2240        | Saltwater                                      |
| Levonian              | Sh Brown-<br>Black | Soft    | 2240         | 4330        | *Drilled with air, 2240-8900                   |
| Onondaga              | H brown            | Hard    | 4330         | 4400        | -3552  |
| Oriskany              | SS White           | Hard    | 4400         | 4410        | No water 3628                                  |
| Helderberg            | H Gray             | Hard    | 4410         | 4588        | 1 -3600  |
| Silurian              | H Gray             | Hard    | 4588         | 5020        | -3816 7436                                     |
| Newburg               | SS Wh              | Hard    | 5020         | 5040        | -47 No water 737                               |
| McKenzie              | Lockport           | Hard    | 5040         | 5215        | -42-58   |
| Keefer                | SS Wh              | Hard    | 5215         | 5255        | -44H3<br>No water                              |
| Rose Hill Shale       | Pink-Brn           | Hard    | 5255         | 5645        | - 4483   |
| Tuscarora             | SS White           | Hard    | 564 <b>5</b> | 5730        | -4873 water                                    |
| Ordžician-<br>Juniata | Red-Brn            | Hard    | 5730         | 6185        | 4958   |
| Martinsburg           | Dk Gray            | Hard    | 6185         | 6790        | -5413  |
| Trenton Ls            | Dk Gray            | Hard    | 6790         | 7436        | -6018  |
| Black River           | Dk Gray            | Hard    | 7436         | 8495        | -6664  |
| colls Creek Dolo      | Hgr                | Hard    | 8495         | 9256        | Trilled w/mud 8900 to TD                       |
| St. Peter             | SS Wh.             | Hard    | 9256         | 9289        | -8484  |

(over)

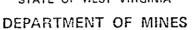
<sup>\*</sup> Indicates Electric Log tops in the remarks section.

| Formation                       | Color Har      | d or Soft                  | Top Feet   | Bottom Feet    | Oil, Gas or Water * Remarks  |
|---------------------------------|----------------|----------------------------|--|----------------|--|
| eckmantown<br>onsauga<br>canite | Hgr<br>Dk gray | Hard<br>Hard<br>Hard       |  | 10204<br>14360 | S1. show/ges - 4517 > 1736 755<br>S1. show/gas - 10,836<br>-18,302 |
| REC AMB                         | /(             | . •                        |  |                | *                            |
| •                               |                |                            | •  | TD 19,124      |  |
|                                 |                |                            |  | -              |  |
|                                 |                |                            |  |                | 19074. 9222  |
|                                 |                |                            |  |                | 19,074· 9289<br><u>737</u> <u>737</u><br>18,237 8552               |
| •                               |                |                            |  |                | 19,074· 9289<br><u>737</u> <u>737</u><br>18,237 8552               |
|                                 |                |                            |  | í              |  |
|                                 |                |                            |  |                |  |
|                                 | 19124          |                            |  |                |  |
|                                 | 9835           |                            |  |                |  |
| · .                             | - 14           | В                          |  |                |  |
|                                 | 19,074         | Ku Z                       |  |                |  |
| •                               | 9,1            |                            |  |                |  |
|                                 |                |                            |  |                |  |
|                                 | AKr (2555      | " mingo)                   |  |                |  |
| 9289                            | AKA (b)        |                            |  | -              |  |
| 240                             |                |                            |  |                |  |
|                                 |                | -                          |  |                |  |
| ``<br>                          |                | -                          |  |                |  |
| 47/51                           |                |                            | şadi, er yeşende de g  |                |  |
| 13                              |                |                            |  |                |  |
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|                                 | . ,            |                            | ,  |                |  |
|                                 |                |                            |  |                |  |

APPROVED

By Oil & Gas Accounting Supervisor







### Oil and Gas Division

#### OIL AND GAS WELL PERMIT APPLICATION

| TO THE DEPARTMENT OF MINES,   | Manah 0 3072   |
|---|--|
| Charleston, W. Va.  | DATE March 9, 1973   |
| Surface Owner Douglas E. McCormick  | Company Exxon Corporation  |
| Address G. D. Alum Creek, W. Virginia 25003   | Address Box 60626, New Orleans, La. 70160  |
| Mineral Owner Douglas McCormick   | Farm Douglas McCormick Acres 28.5  |
| Address G D. Alum Creek, W. Virginia 25003  | Farm Douglas McCormick Acres 28.5  Mouth & McCormick Hellow Location (waters) Parter Fork of Strangel For                            |
| Coal OwnerNone  | Well No. 1 Elevation Appr. 73  |
| Address   | District Duval County Lincoln  |
| Coal Operator   | Quadrangle Griffithsville MW/4 Madison 15'   |
| Address   | Quadrangle N3802.5 - W8152.5/7.5   |
| title thereto, (or as the case may be) under grant or lease d  McCormick made to Exxon Corporation                  | above named farm or tract of land for oil and gas, having fee ated January 3, 1973 by Douglas E.  and recorded on the 9 day of March |
| 19 <u>73</u> , in <u>Lincoln</u> County, Book <u>34</u>   |  |
|   | REDRILLFRACTURE OR STIMULATE   |
| OIL AND GAS WELL ORIGINALLY DRILLED   | BEFORE JUNE 5, 1969.   |
| have been notified as of the above date.  | notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. *              |
| or coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Dep | Very truly yours, (Sign Name)  |
|   | Well Operator  |
| Addres  | F. O. Box 60626<br>s   |
| of  |  |
| Welt Oper   | New Orleans Cay or Town  |
|   |  |
| •   | Louisiana 70160  |
|   | • • • • • • • • • • • • • • • • • • •  |

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved. and the wall operator authorized to proceed.

## THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

| PROPOSED WORK ORDER TO X DRILL  DRILLING CONTRACTOR: (If Known)  NAME Unknown at this time |   |  | RESPONSIBLE AGENT:   |   |  |                  |                                       |                   |
|--|---|--|--|---|--|------------------|---------------------------------------|-------------------|
|  |   |  |  |   |  |                  |                                       | NAME * W. M. Wood |
|  |   |  | ADDRESS  |   |  | ADDRESS Charlest | ADDRESS Charleston, W. Virginia 25301 |                   |
| TELEPHONE  |   |  | TELEPHONE 340-04   | 41  |  |                  |                                       |                   |
| ESTIMATED DEPTH OF COMPLETED WELL: 20,000  |   |  | rotary X   | CABLE TOOLS   |  |                  |                                       |                   |
| PROPOSE  | D GEOLOGICAL FOR  | MATION: Cambrian   |  |   |  |                  |                                       |                   |
| TYPE OF  | WELL: OIL   | GAS X  |  | E DISPOSAL  |  |                  |                                       |                   |
|  |   | RECYCL   | ING WATER FLO  | OODOTHER  |  |                  |                                       |                   |
|  |   | ,  |  | •   |  |                  |                                       |                   |
| TENTATI  | VE CASING PROGRA  | M:   |  |   |  |                  |                                       |                   |
| CASI   | NG AND TUBING   | USED FOR   | LEFT IN  | CEMENT FILL UP  |  |                  |                                       |                   |
|  | SIZE  | DRILLING .   | WELL   | OR SACKS - CUBIC FT.  |  |                  |                                       |                   |
| 20 + 16  | 26"   | None   | 601  | to surf. 73 cu. ft.   |  |                  |                                       |                   |
| 13 - 10  | 20"   | tr   | 2500¹  | to surf. 2399 cu. ft.   |  |                  |                                       |                   |
| 9 - 5/8  | 13 3/8"   | 11   | 7500 <sup>†</sup> :  | <del></del>   |  |                  |                                       |                   |
| 8 - 5/8  | 10 3/4"   | 11 /   | 12500'   | 900 cu. ft.   |  |                  |                                       |                   |
| 7  | ·····   |  | 1  |   |  |                  |                                       |                   |
| 5 ½<br>4. ½  |   |  |  |   |  |                  |                                       |                   |
| 3  |   |  |  | Perf. Top   |  |                  |                                       |                   |
| 2  |   |  |  | Perf. Bottom  |  |                  |                                       |                   |
| Liners   | 7 5/8"  |  | 50001  | Perf. Top 800 cu. ft.  Perf Rottom 164 cu. ft.  |  |                  |                                       |                   |
| r_   | 5 1/2"  |  | 2500'  | Perf. Bottom 104 Cu. 1C.  |  |                  |                                       |                   |
| Woodvi TO DRIL SUB OF TO DRIL SUB WEI MUS TO FRAC OIL BON OIL ING Req four                 | lle area, 7-8 m.L.:  MIT FIVE (5) COPIE: PLAT.  L DEEPER OR REDRICATION  MIT FIVE (5) COPIES  MIT FIVE (5) COPIES  MIT FIVE (5) COPIES  LLS DRILLED PRIOR  ST ALSO BE SUBMITT  CTURE - STIMULATE: AND/OR GAS WELL  AND/OR GAS WELL  ORIGINAL PERMIT N | iles to the south.  S OF OG - 1, \$100.00 PERM  ILL:  OF OG - 1, SHOWING ORIC  TO 1929, A PERMANENT OF THE SERVICE ORIGINALLY DRILLED BEFORMANCH ORIGINAL WELL RED ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCH ORIGINAL WITHIN THE SERVICE ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCH ORIGINAL WELL RED ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCH ORIGINAL WELL RED ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCH ORIGINAL WELL RED ORIGINAL WELL WELL WELL WELL WELL WELL WELL WE | GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) CORD.  AND/OR AFTER JUNE 5, 1936 E BOND. | Nearest coal mining is in  BOND AND PERMANENT COPY  ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  29, FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty- |  |                  |                                       |                   |
| TAGETIC  | Tot process serv  | ing only.  | <u> </u>   |   |  |                  |                                       |                   |
|  |   | NOT APP  | LICABLE  |   |  |                  |                                       |                   |
| The thereof.   | following waiver must   | be completed by the coal or  | perator if the permit is to be   | issued within ten days of receipt   |  |                  |                                       |                   |
| WAIVER:  | WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.   |  |  |   |  |                  |                                       |                   |
|  | We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.                                     |  |  |   |  |                  |                                       |                   |
|  |   | •  | •  |   |  |                  |                                       |                   |
|  |   |  |  | For Coal Company  |  |                  |                                       |                   |