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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DECEIVED

NOV 3 - 1977

Oil

Oil and Gas Division WELL RECORD 32

OIL & GAS DIVISION T. OF MINES

Rotary X

Cable_ Gas__ Quadrangle Littleton Recycling_ Comb. Permit No. Wet-628-Rev. Water Flood_ Storage_ Disposal____ (Kind) Company Pennzoil Company Address P. O. Box 1588, Parkersburg, WV 26101 Tubing Used in Left Cement fill up Tubing Farm A. R. McHenry Drilling in Well Cu. ft. (Sks.) Acres 236 Location (waters) Little Fishing Creek Size Well No.____7 Elev 1080.24 20-16 District Proctor County_ Wetze1 Cond. The surface of tract is owned in fee by_ 13-10" M. L. Goodwin 9 5/8 Address Rt. 7, Box 155-B, New Martinsville 8 5/8 Mineral rights are owned by Joseph and Mary E. 1275 1275 175 sks. Blake Address Box 110, Doolin Rt., N. Martins vill 2e Drilling Commenced 9-7-77 4 1/2 3151 3151 75 sks. Drilling Completed____ 9-12-77 Initial open flow __ 10 __cu. ft. . bbls. Final production 7 cu. ft. per day 0 Liners Used __bbls. Well open _ _hrs. before test___ Well treatment details: Attach copy of cementing record. Fractured w/819 BGW, 30,000# sd., 500 Gal. 15% HCL Coal was encountered at .. Feet_ _ Inches Fresh water_ Feet_ Salt Water_ ___ Feet _ Producing Sand Gordon Depth .

| Shale & Silt 0 64 Sand 64 69 Shale 69 75 Sand 75 81 Shale & Silt 81 161 Sand 161 170 190 Shale 170 190 1080 Sand 190 244 Shale 244 286 Sand 286 301 Shale 301 370 Sand 370 400 Shale & Silt 400 676 Sand 676 687 Shale & Silt 687 871 | Oil, Gas or Water * Remarks | Bottom Feet | Top Feet | Formation Color Hard or Soft |
|--|--|---------------------------------------|----------|------------------------------|
| Sand Shale Shale Shale Sand Shale & Silt Shale & Silt Sand Shale Shale Sand Shale Silt | • | 6/. | 0 | Shale & Silt |
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| Pittsburgh Coal 1033 1036 Shale 1036 | | 1036 | | Shale |
| Co. 1 1030 1411 | | 1411 | | |
| i = i + i + i + i + i + i + i + i + i + | | 1421 | 1411 | i i |
| Shale 1421 1533 | • • | 1533 | 1421 | |
| 5and 1533 1571 | | | 1533 | 4 |
| 1541 1555 | | | 1541 | |
| Salt Sand 1555 1590 | | | 1555 | Sait Sand |

(over)

^{*} Indicates Electric Log tops in the remarks section.

| Formation Color Hard or Soft | Top Feet 36 | Bottom Feet | Oil, Gas or Water | * R. maks. |
|---|--|--|-------------------|------------|
| Shale Break Shale Salt Sand Shale Sand Shale Salt Sand Shale Little Lime Pencil Cave Big Lime Loyalhanna Big Injun Shale Berea Shale Gordon Stray Slate | 1590 1597 1712 1732 1746 1800 2012 2065 2142 2151 2163 2220 2247 2461 2811 2849 3053 3059 3074 | 1597 1712 1732 1746 1800 2012 2065 2142 2151 2163 2220 2247 2461 2811 2849 3053 3059 3074 3085 | | |
| Gordon Total Depth | 3074 | 3150 | | • • • |
| PBD | | - 3136 | | |
| • | | | | |
| | | | - 4 | |
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| Date : | November | 1, |
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77

APPROVED PENNZOIL COMPANY By Certina-Racan
(Title)



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

PECENVELS ON ANISON ES OIL AND GAS WELL PERMIT APPLICATION

| | DATE | August 4, 1 | 977 |
|--|--|--|--|
| Surface Owner M. L. Goodwin | Campany | PENNZOIL COM | IPANY |
| Address Route 7, Box 155-B, New Martinsville, | | | |
| Mineral Owner Joseph L. and Mary L. Blake | | | Acres 236 |
| Address Box 110, Doolin Route, N. Martinsville. | | - | |
| Coal Owner | • | • | Elevation 1056.42 |
| | | | County Wetzel |
| Coal Operator NO COMMERCIAL COAL | | | - |
| | . Quadrangle | 1110010 | ere |
| PERMIT MUST BE POSTED AT THE WELL SITE | | | • • • |
| PERMIT MOST | | | |
| provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved The provisional expire if | | | |
| A. W. VA COOR, me locality | SPECTOR | Phillip | L. Tracy |
| drilling This permit shall expire if TO | BE NOTIFIE | | |
| erations have not commerced by 12-9-77 | nngree P.O. | Box 173, Mi | ddlebourn, W.Va. |
| That h | | | |
| Deputy Director - Oil & Gas Division PF | HONE 758-45 | 73 | |
| | | | |
| GENTLEMEN: | | | |
| The undersigned well operator is entitled to drill upon the | | | |
| title thereto, (or as the case may be) under grant or lease de | , | | |
| McHenry made to J. L. Newman | | | day of |
| 19, inCounty, Book8-A | Page | 1 | |
| X NEW WELL DRILL DEEPER | BEDBII. | | and the second of the second o |
| | | LF | ACTURE OR STIMULATE |
| OIL AND GAS WELL ORIGINALLY DRILLED | | | ACTURE OR STIMULATE |
| OIL AND GAS WELL ORIGINALLY DRILLED | BEFORE JUNE | 5, 1969. | |
| OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or | BEFORE JUNE | 5, 1969. | |
| OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or have been notified as of the above date. | BEFORE JUNE | 5, 1969. urveyor and all | coal owners and/or operators |
| OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or | BEFORE JUNE r licensed land s notified that any | 5, 1969. urveyor and all cbjection they v | coal owners and/or operators |
| OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or have been notified as of the above date. The above named coal owners and/or operator are hereby received by Section 3 of the Code, must be received by, or fill | BEFORE JUNE r licensed land s notified that any led with the Dep | 5, 1969. urveyor and all cbjection they v artment of Mine | coal owners and/or operators vish to make, or are required s within ten (10) days. * |
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| The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby represented by Section 3 of the Code, must be received by, or fill to make by Section 3 of the Code, must be received by, or fill Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective addrers—same day with the mailing or delivery of this copy to the Deptherase Submit Copies of All Geophysical logs directly to: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331 *SECTION 3 If no objections are filled or found by the Deptherase and plat by the department of mines, to said proposed location, to said proposed location proposed l | BEFORE JUNE r licensed land s notified that any led with the Dep registered mail, o partment of Mine Very truly yours (Sign Name) | 5, 1969. urveyor and ali cbjection they variment of Miner or delivered to the day sat Charleston, PENNZOIL Co Well Open P. O. Box Street Parkersburg City or Too West Virginate State | coal owners and/or operators wish to make, or are required within ten (10) days. * c above named coal operators before, or on the West Virginia. MPANY ator Curtis A. Lucas Civil Engineer Civil Engineer at 26101 |
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| The enclosed plat was prepared by a registered engineer or have been notified as of the above date. The above named coal owners and/or operator are hereby represented by Section 3 of the Code, must be received by, or fill Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Deptherase Suemit Copies of All Geophysical Logs Directly To: West virginia Geological and Economic Survey P. O. Box 879 Morgantown, West virginia 26505 AC-304 - 292-6331 *Section 3 If no objections are filed or found by the Deptherase of the filing of such plat, that no objections have been made by the coal operators. | BEFORE JUNE r licensed land s notified that any led with the Dep registered mail, o partment of Mine Very truly yours (Sign Name) | 5, 1969. urveyor and ali cbjection they variment of Miner or delivered to the day sat Charleston, PENNZOIL Co Well Open P. O. Box Street Parkersburg City or Too West Virginate State | vish to make, or are required within ten (10) days. * e above named coal operators before, or on the West Virginia. MPANY Stor Curtis A. Lucas, Civil Engineer control of ten days from the receipt of the well operators permit recitinment and that the same is approve |
| The enclosed plat was prepared by a registered engineer or have been notified as of the above date. The above named coal owners and/or operator are hereby received by Section 3 of the Code, must be received by, or fill Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Deptherapy of this copy to the Deptherapy Sical Logs Directly To: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331 *SECTION 3 If no objections are filed or found by the Deptherapy of the filing of such plat, that no objections have been made by the coal opened the well operator authorized to proceed. | BEFORE JUNE r licensed land s notified that any led with the Dep registered mail, o partment of Mine Very truly yours (Sign Name) | cbjection they varied to the day sat Charleston, PENNZOIL Concept Of Box Street Parkersburg City or Town West Virgin State | coal owners and/or operators wish to make, or are required s within ten (10) days. * c above named coal operators before, or on the West Virginia. MPANY ator Curtis A. Lucas, 1588 Civil Engineer change of ten days from the receipt of the well operator a permit recitin |

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

| PROPOSED WORK ORDER TO | X DRILL D | EEPENFI | RACTURE-STIMULATE | |
|--|--|---|---|--|
| DRILLING CONTRACTOR: (If I | • | ESPONSIBLE AGENT: | | |
| NAME | | NAME Pennzoil Company | | |
| ADDRESS | A) | DDRESS Parkersb | urg, West Virginia 26101 | |
| TELEPHONE | TI | ELEPHONE 422- | 6565 | |
| ESTIMATED DEPTH OF COMPLI | ETED WELL:3077 Re | OTARY X | CABLE TOOLS | |
| PROPOSED GEOLOGICAL FORM | ATION: Gordon | | | |
| TYPE OF WELL: OIL_ | X GAS COMB. | STORAGE | DISPOSAL | |
| | RECYCLING | WATER FLO | ODOTHER | |
| TENTATIVE CASING PROGRAM | | | | |
| CASING AND TUBING SIZE | USED FOR - DRILLING | LEFT IN WELL | CEMENT FILL UP OR SACKS - CUBIC FT. | |
| 20 - 16 | VICE-MICHAEL TO QUE MILLION DATOMIC MONING HIS ARROWN A ANALYSIS EST CONTACT AS A MICHAEL CONTACT AND A MICHAE | | | |
| 13 - 10 | | | | |
| 9 - 5/8 | · | | | |
| 8 - 5/8 | | · · · · · · · · · · · · · · · · · · · | | |
| 7 | 1215 | 1215 ° | Cement to surface | |
| 5 ½ | | | | |
| 4 1/2 | 3077 | 3077 ! | 75 sks. | |
| 3 | | | Perf. Top | |
| 2 | | | Perf. Bottom | |
| Liners | · · · · · · · · · · · · · · · · · · · | | Perf. Top | |
| | | | Perf. Bottom | |
| IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT. TO DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU | OF OG - 1, \$100.00 PERMIT FE L: DF OG - 1, SHOWING ORIGINAL O 1929, A PERMANENT COPY O | BY WHOM? E, PERFORMANCE B PERMIT NUMBER AND THE PLAT AND THE PLAT AND THE PLAT AND THE 5, 1929, FIVE (5) R AFTER JUNE 5, 192 D. | OND AND PERMANENT COPY ID PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 19, FIVE COPIES OG - 1, SHOW- | |
| | | | | |
| | | · | | |
| The following waiver must be thereof. | be completed by the coal operator | if the permit is to be | issued within ten days of receipt | |
| this lease have examine | ed and place on our mine maps the | nis proposed well local | ion. | |
| | Coal Company have complied with all rules and regulation | | | |
| • | | | 200 Profession - | |
| | |] | or Coal Company | |
| | | Others have study from any contract, country, require the factors of country desirable desirables. | Official Title | |





Oil and Gas Division

OIL & GAS DIVISION DEFT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

| TO THE DEPARTMENT OF MINES, | | 0 | •• |
|--|--------------------------------|---------------------------|-------------------------------------|
| Charleston, W. Va. | DATE | Sept. 6, 197 | |
| Surface Owner M. L. Goodwin | Company_ | PENNZOIL COM | PANY |
| Address Route 7, Box 155-B, New Marti | nsville, WAddress P. | 0. Box 1588, | Parkersburg, WV 26101 |
| Mineral Owner Joseph and Mary L. Blak | | | Acres 236 |
| Address Box 110, Doolin Route, New Ma | ertinsville Location (| waters) Little | Fishing Creek |
| Coal Owner | Well No | 7 | Elevation 1080.24 |
| Address | District | Proctor | County Wetzel |
| Coal Operator NO COMMERCIAL COAL | Quadrangle | Littleton | 15' |
| Addrest | | | |
| THIS PERMIT MUST BE POSTED AT THE WEL | | | |
| All provisions being in accordance with Chapter of the W. Va. Code, the location is hereby apprevised for <u>drilling</u> . This permit shall expended the control of the control | INSPECTOR | TED Phill | Lip Tracy |
| | | W: 221 | 1-1 W 17- |
| operations have not commenced by 1-9-7 | ADDRESS | Midal | Lebourn, W. Va. |
| Notet & | PHONE 758 | - 457 3 | |
| Deputy Director - Oil & Gas Division GENTLEMEN: | | | |
| The undersigned well operator is entitled to d | rill upon the above named | farm or tract of lar | nd for oil and gas, having fee |
| title thereto, (or as the case may be) under gran | it or lesse dated Apri | 19 | 16 by A. R. & F. A. |
| McHenry made to J. L. New | nan and re | ecorded on the | day of |
| 19 in County, Book | | 271 | |
| X NEW WELL DRILL DE | EEPER REDI | RILL FR | ACTURE OR STIMULATE |
| OIL AND GAS WELL ORIGINALL | | | |
| | | | |
| The enclosed plat was prepared by a registere have been notified as of the above date. | d engineer or licensed lan | d surveyor and all o | coal owners and/or operators |
| The above named coal owners and/or operator to make by Section 3 of the Code, must be received. | ved by, or filed with the | Department of Mines | within ten (10) days. * |
| Copies of this notice and the enclosed plat wer or coal owners at their above shown respective a same day with the mailing or delivery of this cop | address | day | before, or on the |
| | Very truly yo | ours, PENNZOIL C | COMPANY |
| PLEASE SUBMIT COPIES OF ALL | (Sign Name) | fundo a | Luca |
| GEOPHYSICAL LOGS DIRECTLY TO: | (Sign Hume) | Well Oper | • |
| WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY | Address | P. O. Box Street | 1588 Civil Eng. Dep |
| P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331 | of Well Operator | Parkersbur City or Tow | |
| MC-304 - 292-0331 | | West Virgi | nia 26101 |
| | · · | State | |
| OCECTION 3 If no objections are filed and | ound by the Department of - | nings within said social | i of ten days from the receipt of |
| *SECTION 3 If no objections are filed or for notice and plat by the department of mines, to said prop the filing of such plat, that no objections have been made and the well operator authorized to proceed. | sosed location, the department | shall forthwith issue to | the well operator a permit reciting |

BLANKET DOND
"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by

WET-628-REV. PERMIT NUMBER

47-103

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

| PROPOSED WORK ORDER TO. | X DRILL | DEEPEN FR | ACTURE-STIMULATE |
|--|--|--|-------------------------------------|
| DRILLING CONTRACTOR: (If | Known) | RESPONSIBLE AGENT: | |
| NAME | | NAME Pennzoil C | ompany |
| ADDRESS | | | rg, West Virginia 2610 |
| TELEPHONE | • | 1 1 | 6565 |
| ESTIMATED DEPTH OF COMPL | | | CABLE TOOLS |
| | | ROTART | CABLE TOOLS |
| PROPOSED GEOLOGICAL FORM | | | |
| TYPE OF WELL: OIL_ | | | |
| • | RECYCLIN | IG WA'TER FLO | ODOTHER |
| | | | |
| TENTATIVE CASING PROGRAM | 1: | • | |
| | | | _ |
| CASING AND TUBING SIZE | USED FOR DRILLING | LEFT IN: WELL | OR SACKS - CUBIC FT. |
| Carrier of the state of the sta | DRILLING | W.C.L. | ON SACKS - CORC 11. |
| <u>20 - 16</u> <u>13 - 10</u> | | | |
| 9 • 5/8 | | | ` |
| | and the second s | | |
| 8 - 376 | | 1,31.2 | |
| 7 | 1249 | 1249 | Cement to surface |
| 5 1/2 | 0111 | 2111 | 75 -1 |
| 4 1/2 | 3111 | 3111 | 75 sks. |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top Perf. Bottom |
| | | | ert. Bottom |
| | | | |
| APPROXIMATE FRESH WATER | DEPTHSFEET_ | SALT WATER | FEET |
| APPROXIMATE COAL DEPTHS | Pittsburgh Coal | 1010' Ķ.B. | |
| IS COAL BEING MINED IN THE | E AREA? None | BY WHOM? | |
| | | | |
| TO DRILL: | | 4 | |
| | OF OG - 1, \$100.00 PERMI | r fee, performance bo | OND AND PERMANENT COPY |
| OF PLAT. | | • | • |
| TO DRILL DEEPER OR REDRIL | L: | | |
| | | NAI DEDMIT NIIMDED AN | D PERFORMANCE BOND. ON |
| | | | HE ORIGINAL WELL RECORD |
| MUST ALSO BE SUBMITTE | | | THE OWNER WHILE RESOURD |
| | | | |
| TO FRACTURE - STIMULATE: | | | |
| | | | COPIES OG - 1, PERFORMANCE |
| BOND, PERMANENT PLAT | AND ORIGINAL WELL REC | ORD. | |
| | | | 9, FIVE COPIES OG - 1, SHOW- |
| ING ORIGINAL PERMIT NU | MBER, AND PERFORMANCE | BOND. | |
| Required forms must be file | d within ninety (90) days of c | ompletion for bond release | Inspector to be notified twenty- |
| four (24) hours in advance. | a mana masa (bo) daya çir e | ompression to bond release. | inspector to be notified twenty |
| | | | |
| | | | |
| • | • | • | |
| | • | | |
| 70h a fall aming mainer want | ha americand has also and one | | |
| the following waiver must | be completed by the coal ope | rator if the permit is to be | ssued within ten days of receipt |
| | | 0.10 | |
| WAIVER: I the undersigned, Age | | | |
| this lease have examin | ed and place on our mine ma | aps this proposed well locati | on. |
| We the | Coal Company l | have no objections to said w | ell being drilled at this location, |
| providing operator has | complied with all rules and regu | ilations in Articles 4, 5, and ' | 7, Chapter 22 of the West Virginia |
| Code. | | | |
| | | | |
| • - | - | | |
| to with the second of the | | Fe | or Coal Company |
| | | Bi-statuti-to-maketine in material student and the contract of | |
| | | | Official Title |