



October 3 1) Date:__

2) Operator's Villers #1073 Well No._

47 - 013 - 3812 3) API Well No. State County Permit

OIL & GAS DIV. DEPT. OF MINES

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

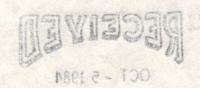
| 4) WELLTY | PE A O | il li | / Ga | 18 | XX / | Arriva a management | TO STREET WATER TO STREET | NETICATIONS A | |
|------------------------------|--|-------------|----------------------|----------|------------------------|--|---------------------------|--------------------------|---|
| ", ", ", ", | В (І | f "Gas", | Production | 1 | XX | / Underground | d storage | / Deep | _/ ShallowX/) |
| 5) LOCATIO | ON: Ele | vation: _ | 1015.7 | 75' | | | Big Run | | |
| | | strict: | | | | _ County: | Calhoun | Quadrangle: _ | 7.5' Annamoriah |
| 6) WELL OF | | | | | | | | | y L. Berger, Jr. |
| Addres | The second secon | | 2nd St | | | | Address | 710 Virginia | |
| | New | York | , New \ | ork! | 1001 | .7 | | Charleston, | W.V. 25301 |
| 8) OIL & GA | | | BE NOTIF | FIED | | | 9) DRILLING C | | |
| Name | Deo Mac | | | | | | Name UNK | NOWN AT THIS | IIME |
| Addres | | Rt. 1 | | | | | Address | | |
| | | Sandri | dge, W | | 25274 | | | - | 1 |
| 0) PROPOSI | ED WELL | WORK: | Drill | (| _/ Drill | deeper | / Redrill | / Stimulate | |
| | | | Plug of | f old | formation | n/ Perfo | orate new formation | 1/ | |
| | | | | | | | | | |
| 1) GEOLOG | ICAL TAR | GET FOR | MATION | | BROWN | SHALE | | | |
| | ated depth of | | | | 5070 | fee | | | |
| | | | | | | | lt, | | V |
| 14) Appre | oximate coa | l seam dep | oths: | TE SAL | (| Is c | oal being mined in th | ie area? Yes | / No_X/ |
| 5) CASING | AND TUBI | NG PRO | GRAM | | | | | | |
| CASING OR TUBING TYPE | | SPEC | UFICATIONS Weight | | | FOOTAGE | INTERVALS | CEMENT FILL-UP OR SACKS | PACKERS |
| TOBING TIFE | Size | Grade | per ft. | New | Used | For drilling | Left in well | (Cubic feet) | |
| Conductor | | | | | | 4.2 | | | Kinds |
| resh water | 9 5/8 | LS | 33# | X | | 425' | 425' | To Surface | NEAT |
| Coal | | | | | | 4 24 | | | Sizes |
| ntermediate | 7" | J-55 | 20# | X | Y | 2150' | 2150' | 100 sks | 1 |
| Production | 4 1/2 | ERW | 10.5# | X | | | 5070' | 250 sks (| Deptiden Mg. Vy |
| ubing | | | | | | The water than the | | | rule 15.011 |
| iners | | | | | | | | | Perforations: |
| | | E145(1105) | 3 | - 16-2 | - 118 | | 7 89 12 7 10 39460 | | Top Bottom |
| 100 | | | | | | | | | and a sense of a sense of contract contract |
| - (7 | | | 3 | | | | 1 | | |
| | | | | | | | | | |
| | | | | 75-773 | NAME OF TAXABLE PARTY. | TA WHAT HAT THE | 21 | | 99897 |
| | | | | anan. | - | OFFICE USE | | | T. Lawren T. Lawrenger |
| | | | | | | DRILLING P | ERMIT | | |
| ermit number | 47-013 | -3812 | | | | | | Octob | er 29, 19 84 |
| | | | | | | | - THE S | Da | |
| his permit cov | ering the w | ell operate | or and well | locati | on shown | below is evidence | of permission gran | ted to drill in accordan | nce with the pertinent legal re- |
| uirements subj | ect to the co | onditions | contained l | herein a | and on th | e reverse hereof. | Notification must be | given to the District (| Oil and Gas Inspector, (Refer to |
| No. 8) Prior to | the constru | r 24 hour | oads, locat | tual ne | nd pits fo | r any permitted wo work has commend | ork. In addition, the ved | vell operator or his coi | ntractor shall notify the proper |
| | | | | | | | | 1'6' | 1 10 10 10 1 |
| he permitted veverse hereof. | vork is as de | escribed in | the Notice | e and A | Application | on, plat, and reclar | nation plan, subject | to any modifications a | and conditions specified on the |
| ermit expires | | Octol | ber 29, | 198 | 36 | unless we | ll work is commence | d prior to that date and | prosecuted with due diligence. |
| cimit expires | 71-71- | | | | | unicss we | commence | - prior to that date and | prosecuted with due dingence. |
| D | | | DI. | 6 . | | | | | SHOTTOPPENT NBHIT |
| Bond: | Agen | t: | Plat: | Casii | ng | Fee | (1 | | 1 |
| 148 | m | U | 5 | rn | 121 | 7955 | WI | | 0 / / 200 / |
| 4/ | • | | | | | 1 | 11 1W | ganet. | 1 x /asse |

NOTE: Keep one copy of this permit posted at the drilling location.

Administrator, Office of Oil and Gas

FORM IV-2(B) Reverse FILE COPY





| 8 11 100 | 19 11 500 | 13 | 1150 |
|----------|-----------|----|------|
| .VIV | GAS | 10 | 1117 |

OFFICE USE ONLY

DEPT. OF MINES

12/08/2023

| PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) |) TO THE | PROPOSED | WELL | WORK |
|--|----------|----------|------|------|
|--|----------|----------|------|------|

Waterack Big Run 2K41

| · · · · · · · · · · · · · · · · · · · | 425' To Sur | 1584 | | ASS 21 3 | |
|---------------------------------------|-----------------------------|--|---|--|---------------------|
| 1806 WEAT. | INC ON C25 | C23, 5 | | 31,18 31,18 | A CONTROL OF STREET |
| | 2150' 100 | 2150 | | 103 lag-01- | |
| sks broudd the ful | 5070 | | X | 21 EEN 10.5 | \ Δ Δ minutors |
| Lord Made | OFFI | CE USE ONLY | | | 300011 |
| This want of Form IV 2(h) is to | record the dates of certain | in occurrences at | nd any follow- | un inspections | |
| This part of Form IV-2(b) is to | record the dates of certa | in occurrences at | iu ally follow- | up mspections. | |
| | Date | | | | Date(s) |
| A 11 - 4 | | Follow ur | inspection(s) | | |
| Application received | Y 1V | | | | |
| Well work started | | nad satting | ,, | | |
| | | | | | erigi agriber 47-03 |
| Completion of the drilling process | | hele et la evidence of | nager nowaself | | |
| Well Record received | Medica and beginn to the | green in the later with | nds no one nervou. Not elly the surefu | ponishis, anominga 1961, abaga Tamataga | |
| | | | | | |
| Reclamation completed | | ifictorican Las Jale A | | | |
| date and prosecuted with dougilly me. | | | 9861. | October 29 | |
| OTHER INSPECTIONS | | | | | |
| | Pie | | A LEVEL V | 5 | W 1/1 |
| Reason: | 1 Paras | 105 | (Hill) | I LIM | 17 1841 |
| Reason: | 2000 1001 | Nan and | | | |
| | | The state of the s | | | |

See the reverse side of the APRIACAN PERCOPY for less others in the gest operator

IV-9 (Rev 8-81)



Attach separate sheets as

necessary for comments.



| DATE | | 9-24-84 | * | | | |
|------|-----|---------|--------|--|--|--|
| WELL | NO. | V:1/0-0 | # 1073 | | | |

Bepartment of Mines

State of Mest Mirginia API NO. 47 - 013 -381

Gil und Gas Bivision

| UNSTRUCTI | LON AND REC | LAMATION PLA | | | |
|--|-------------|-----------------------------------|--|-------------------------|---------------------|
| COMPANY NAME Sterling Drilling & 1 | Prod. CoD | esignated ag | ENT Sterl | ing Drill | ing & P |
| Address 360 Madison AveNY, I | NY 10017 | Address c/ | o H.L.Ber | ger - Cha | as., WV |
| Telephone (212) 682-0204 | | Telephone_ | (304) 34 | 2-0121 | |
| LANDOWNER Gerald M. Bowman | | SOIL CONS. | DISTRICT | Little Xa | nawha SC |
| Revegetation to be carried out by | | | | | |
| This plan has been reviewed by | 0 | 1 | | All correc | |
| and additions become a part of this pl | , | | | | |
| field Review | Hono | (Date) lift of M (SCD Agent | lusor | | · |
| ACCESS ROAD | | | LOCATION | 1 | - |
| Structure | (A) | Structure_ | Diversion | Dith | (1) |
| Size | | Material | Earthen | | |
| Page Ref. Manual | | Page Ref. N | Manual | 2-18 | |
| | | 6 | | | |
| Structure Drainage Ditches | (B) | Structure_ | Rip-Rap | | (2 |
| Location Roadside . to be main timed | | Material | Rock | | |
| Page Ref. Manual | | Page Ref. M | lanual | 2-9 | |
| Structure Cross Drains - 16" pipe | (C) | Structure_ | | | (3) |
| Spacing 300 for 6-10% | | Material | 90 | | |
| Page Ref. Manual 2-8 Table 4 | | Page Ref. M | anual 📆 🔀 | 3 0 | |
| All structures should be inspected commercial timber is to be cut and s cut and removed from the site before | tacked and | all brush a begins. | d if macked and small to the terms of the te | imber to be | |
| Treatment Area I | | T | reatment Ar | rea II | |
| Lime 2 Tons/acm | e | Lime | 2 | | ns/acre |
| or correct to pH 6.5 | | or correc | et to pH_ | 6.5 | |
| Fertilizer 500 lbs/acre (10-20-20 or equivalent) | | Fertilizer(] | 0-20-20 or | 500 lbs equivalent | s/acre [.] |
| Mulch Hay or Straw 2 Tons/acre | е | Mulch Hay o | r Straw | 2 Tor | ns/acre |
| Seed* Ky-31 40 lbs/acre | | Seed* Ky- | 3/ | 40 lbs | /acre |
| Ladino Clover 4 lbs/acre | | Ladia | Closer | 4 · lbs | /acre |
| lbs/acre | | - | | | /acre |
| *Inoculate all legumes such as vetch, Inoculate with 3X recommended amount. | , trefoil a | nd clovers w | oith the pr | 12/08/20 oper bacter | 123 iwi. |
| | PLAN PREP | ARED BY | land X. (| Samplell | |
| NOTES: Please request landowners' | Ai | DDRESS Rou | te 1, Box | : 30 | |
| cooperation to protect new seedling for one growing season. | | | | 5063 | |

PHONE NO. (304) 364-5780

LEGEND 0 INVOLVED TOTOGRAPHIC MAP Well Site IV-9 REVERSE (REV 8-E1) Access Road QUADRANGLE 72 Annamoriah Arnoldsburg NW Annamoriah C-1480 \$ 1447 Well Gas Q-1396 C-1317 C-1402 10 C-1481 900 C-1388 042-225 125 C.1380 8 -1493 C.G.S. HOPE HOPE 13-26-61 TO 2065 042-220 122.54 042-019 9/83 137 2 1263 2 Existing Well Road To Be 1.0 mi Annum ori wh Used of Maintained Daill Existing Gas Well I 0 C-1586 F:11 Area 12/08/2023 Run Big

FURM IV-Z(A) 1) Date: October 3 ,19 84 Obverse 2) Operator's [8-83]Well No. 1073 3) API Well No. 47-013-3812 State County Permit STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS NOTICE OF APPLICATION FOR A WELL WORK PERMIT 4) SURFACE OWNER(S) OF RECORD TO BE SERVED 5(i) COAL OPERATOR UNOPERATED (i) Name Gerald M. Bowman Address Address C/O Evelyn Bowman 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD: Rt. 3 Box 433 Fairmont, W.V. (ii) Name UNKNOWN Name Address Address (iii) Name Name Address Address 5(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Address CO med recent is a ents: is and T. F.C. P. CE. INT. B. I. W. IE. SONCHAGE PROV. DR. INTERNATIONAL IN (See Reverse) to Code. 1116 MOIT WHI(11160 SERALD ION (FO ACT for and ion Cor the vered PS Form 3800, Feb. 1982 " state steil assess and An John assess before the day of mailing or delivery to the Administrator. 6) EXTRACTION RIGHTS Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.) 7) ROYALTY PROVISIONS ADTALLY PROVISIONS

The right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No XX If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and The truth of the information on the WELL Notice and Application is verified OPERATOR Sterling Drilling & Prod. Co., Inc. and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Designated Agent Its Harry L. Berger, Jr. Address 710 Virginia St., this 3rdiay of October 19 84. Charleston, W.V. 25301 My commission expires May 10 Telephone 342 - 0121 12/08/2023 Notary Public, Kanawha County, State of West Virginia

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) . Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-lb and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

- Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that-
- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Grantor, lessor, etc. | Grantee, lessee, etc. | Royalty | Book Page |
|--|--|---------|-----------|
| G.D. Villers Annamoriah, W.V. 26130 | Sterling Drilling and Production Co., Inc. | 1/8 | 46 / 86 |





1) Date: _____ 2) Operator's

Well No. 3) API Well No.

47 State

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

| OIL 4) VELETY | & GAS | AIRA | | Al | PPLICA' | TION FOR A WI | ELL WORK PERMIT | |
|---|---------------------------------|--|--|---------|-----------|--|--------------------------------------|--|
| | | | Production | ı ¥ | Y CRAFT Y | / Undergroun | d storage | / Deep |
| 5) LOCATIO | | | 1015 7 | | | | Rin Pun | |
| | | strict: | 100 | | | | alhous | Quadrangle: _ |
| 6) WELL OP | | | na Dri | 11in | a A P | rod Co. | 7) DESIGNATED | AGENT Many |
| Address | | | and St | | | non | Address | 710 Virginia |
| | Nou | Vonk | Now Y | ork | 1001 | 7 | | Charleston. |
| 8) OIL & GA | S INSPEC | TOR TO | BE NOTIF | FIED | | idda sharati sac | 9) DRILLING CO | ONTRACTOR: |
| Name | leo Mac | 0 | | | | elsaon et ve Le | Name 11111111 | OWN AT THIS |
| Address | D | + 1 1 | lex 5 | | | | Address | |
| | | andrie | do U | V 2 | 5274 | | | |
| 10) PROPOSE | D WELL | WORK: | Drill_X | | _/ Drill | deeper | / Redrill | / Stimulate |
| | | | Plug of | f old f | ormation | / Perf | orate new formation | mays too pall of him |
| | | | Other p | hysical | change i | n well (specify) | | |
| 11) GEOLOGI | CAL TAR | GET FOR | MATION | | ROWN | SHALE | Stephenous | |
| 12) Estima | | | | | | | et and the company | |
| | | | | | | | alt, | feet. |
| | | | | | | | | |
| | | | | | 0 | | coal being mined in the | e area? Yes |
| 14) Appro | ximate coa | al seam dep | oths: | | 0 | | | e area? Yes |
| 14) Appro | ximate coa | il seam dep | oths: | | 0 | Is | | CEMENT FILL-UP |
| 14) Appro 15) CASING A | ximate coa | il seam dep | oths: | | Used | Is | coal being mined in the | |
| 14) Appro 15) CASING A CASING OR | ximate coa | Il seam dep ING PRO SPEC | OTHS: | ; | . | Is FOOTAG | coal being mined in the | CEMENT FILL-UP OR SACKS |
| 14) Appro 15) CASING A CASING OR TUBING TYPE | ximate coa | Il seam dep ING PRO SPEC | OTHS: | ; | . | Is FOOTAG | coal being mined in the | CEMENT FILL-UP OR SACKS |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor | ximate coa | Il seam dep ING PRO SPEC | GRAM CIFICATIONS Weight per ft. | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water | ximate coa | Il seam dep ING PRO SPEC | GRAM CIFICATIONS Weight per ft. | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa | Il seam dep | oths: | ; | . | FOOTAG For drilling | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa AND TUBI Size | Il seam dep ING PROG SPEC Grade | oths: | New X | Used | FOOTAG For drilling | E INTERVALS Left in well 2150 5070 | CEMENT FILL-UP OR SACKS (Cubic feet) TO Surface |
| 14) Appro 15) CASING A CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing | ximate coa AND TUBI Size 74 1/2 | Il seam dep ING PROG SPEC Grade | oths:GRAM CIFICATIONS Weight per ft. | New X | Used | FOOTAG For drilling 425 2150 urface owners. H | E INTERVALS Left in well | CEMENT FILL-UP OR SACKS (Cubic feet) |

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit or on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface lan

I further state that I have no objection to the planned work described in these materials, and I have no objection to a per materials.

| (For execution by corporation, parti | nership, etc.) | (For execution by natural persons) | | | |
|--------------------------------------|----------------|------------------------------------|--|--|--|
| NAME: | | - Tenala M Thou | | | |
| Ву | | (Signature) | | | |
| Its | Date | (Signature) | | | |

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



OIL & GAS DIVISION

DEPT. OF MINES

State of Mest Airginia

Bepartment of Mines Bil und Gas Bivision

| | June 13, 1985 | |
|----------|----------------|---|
| Operator | 's | |
| Well No. | # 1073 | • |
| Farm | Villers | |
| APT No. | 7 - 013 - 3812 | |

WELL OPERATOR'S REPORT OF

| DRILLING. | FRACTURING | AND/OR | STIMULATING, | OR | PHYSICAL | CHANGE |
|-----------|--|--------|--|----|----------|--------|
| | THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME | | THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, | - | | |

| WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou | / Wast | re Disposa ge/ Deep | L/ p/ Sha | 11ow_X_/) |
|--|----------------|------------------------|---|--------------------|
| LOCATION: Elevation: 1015.75' Watershed B | ig Run | | | |
| District: Lee County Calho | | _Quadrangle | ≥_Annamor | iah 7½' |
| COMPANY Sterling Drilling & Production Co., Inc. | | | | |
| ADDRESS 710 Va. St. E., Charleston, WV 25301 | Casing | Used in | Ieft. | Cement |
| DESIGNATED AGENT Harry L. Berger, Jr. | Tubing | Drilling | | fill up Cu. ft. |
| ADDRESS 710 Va. St. E., Charleston, WV 25301 | Size | 51111119 | TI WOLL | Cu. zc. |
| SURFACE OWNER Gerald M. Bowman | 20-16 | | 1 | |
| ADDRESS Rt. 2 Box 763, Bridgeport, WV 26330 | Cond. | | | - |
| MINERAL RIGHTS OWNER G. D. Villers | 13-10" | 1071 | 4071 | 155 |
| ADDRESS Annamoriah, WV 26130 | 9 5/8 | 427' | 427' | 155 sks. |
| OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace | 8 5/8 | 01711 | 01711 | |
| ADDRESS Rt.1 Box 5, Sandridge, WV | 7 | 2171' | 2171' | 175 sks. |
| PERMIT ISSUED October 29, 1984 25274 | 5 1/2 | | 50401 | |
| DRILLING COMMENCED November 29, 1984 | 4 1/2 | | 5048' | 280 sks. |
| DRILLING COMPLETED December 4, 1984 | 3 | | | - |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON | 2 | | | |
| CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED | Liners used | | | |
| ON | | | | |
| GEOLOGICAL TARGET FORMATION Devonian Shale | | Dep | th 5070 |)'feet |
| Depth of completed well 5094'KB feet | Rotary | / Cabl | e Tools_ | |
| Water strata depth: Fresh reported feet; | Salt repo | orted feet | | |
| Coal seam depths: None | Is coal | being min | ed in the | e area? No |
| OPEN FLOW DATA | | | | |
| Producing formation Devonian Shale | D- | v zone der | th 2002! | 50/2! foot |
| | | | | |
| Gas: Initial open flow show Mcf/d Final open flow 984 Mcf/d | | | | |
| | | | | |
| Time of open flow between init | | | | |
| Static rock pressure 925 psig(surface | | alent) atte | 1 72 17/0 | PRESIDE II |
| (If applicable due to multiple completion | | | | · £ |
| Second producing formation | | | | |
| Gas: Initial open flow Mcf/d | | | *************************************** | |
| Final open flow Mcf/d | | | | |
| Time of open flow between init | | | | |
| Static rock pressurepsig(surface | e measure | ment) after | rho | urs shut i |

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforations

1st Stage:

24 holes 4547'-5042'

2nd Stage:

25 holes 3840'-4386'

3rd Stage:

20 holes 2992'-3717'

Treatment

1st Stage:

600 gals. 15% HCl; 1,368 MSCF N_2

2nd Stage:

750 gals. 15% HCl; 1,360 MSCF N_2

3rd Stage:

840 gals. 15% HCl; 1,306 MSCF N_2

WELL LOG

Villers # 1073

| | | ers # 1073 | REMARKS | | | |
|------------------------------|------------|-----------------|----------------------------------|--|--|--|
| FORMATION COLOR HARD OR SOFT | WOD DESIGN | DOMESTIC FOR | Including indicate | | | |
| TOWALLON COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | | | | |
| | | | and salt water, coal, oil and ga | | | |
| | | | | | | |
| | | | | | | |
| Condatana and Clark | | | All Depths from 10'KB | | | |
| Sandstone and Shale | 0 | 1601 | | | | |
| Salt Sand | 1601 | 1639 | | | | |
| Shale | 1639 | 1660 | | | | |
| Salt Sand | 1660 | 1740 | | | | |
| Shale . | 1740 | 1761 | | | | |
| Salt Sand | 1761 | 1867 | | | | |
| Shale | 1867 | 1873 | | | | |
| Little Lime | 1873 | | | | | |
| Pencil Cave | | 1893 | | | | |
| | 1893 | 1899 | | | | |
| Big Lime | 1899 | 2010 | | | | |
| Big Injun | 2010 | 2043 | | | | |
| Silty Shale | 2043 | 2402 | | | | |
| Sunbury Shale | 2402 | 2414 | | | | |
| Berea | 2414 | 2416 | | | | |
| Siltstone and Shale | 2416 | 2771 | | | | |
| Shale | 2771 | 4815 | Top of Java formation @ 4595' | | | |
| Siltstone | 4315 | 4852 | Top of dava formation & 4595 | | | |
| Shale | 4852 | 5094 | W | | | |
| | 4032 | | g · | | | |
| Total Depth | | 5094' | | | | |
| | | | | | | |
| | | | | | | |
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| 442 | | | | | | |
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| | | 1 129 2 1 1 1 1 | | | | |

(Attach separate sheets as necessary)

| | & Production Co., Inc. |
|---------------|------------------------|
| Well Operator | 12/08/2023 |
| By: Harry | L. Derger, In |
| Date: 7/2 | -85 / |

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including encountered in the drilling of a well."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

RECEIVED

DEC 4 - 1984

INSPECTOR'S WELL REPORT

| | OIL | 8. | GAS | DIVISION |
|---|-----|----|-----|----------|
| D | EP. | T. | OF | MINES |

Permit No. 13-38/2

Oil or Gas Well

| Company Sterley | CASING AND TUBING | USED IN DRILLING | LEFT IN | PAC | KERS |
|--|----------------------|---------------------|-----------------|--|--------|
| Address | Size | | | | |
| Farm Villers | 16 | | | Kind of Pa | cker_: |
| Well No | 13 | | | | |
| istrict Lee County Cal. | 10 | | | Size of | |
| the second secon | 81/4 | | | | |
| rilling commenced 11-29-84 | 65% | , | | Depth set_ | • |
| rilling completedTotal depth | 5 3/16 | | | | |
| A CANADA | 3 | | Santage Land | Perf. top | |
| ate shotDepth of shot | 2 | | 33 V 8 8 13 V 8 | Perf. botton | 11 |
| itial open flow/10ths Water inIn | ch Liners Used | | | Perf. top | |
| pen flow after tubing/10ths Merc. inIn | | | | Perf. bottor | n |
| ck pressure lbs. hi | | | | No. FT | Dat |
| bbls., 1st 24 hr | s. COAL WAS EN | COUNTERED | AT | FEET | INCHE |
| esh waterfeetfee | | INCHE | ES | FEET | INCHE |
| t waterfeetfee | et FEET_ | INCHE | S | FEET | INCHE |
| illers' Names Hant | | | | (in the second s | |
| narks: | | | | | |
| 427 of 9 78" casing, | 136 SKS | cemet, | Doluck | 0, 11- | 30-89 |
| Coment cliculated | | | | | |

11-30-84

Que Mar 08/2023

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

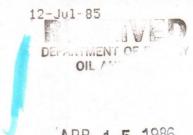
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

| COMPANY | | | ADDRESS | a consis | | |
|--|----------------------|------------------|--|---|--|----------------|
| FARM | | DISTRICT | Party of the second of the sec | OUNTY | and the second | |
| Filling Material Used | | | | | and the state of t | |
| Liner Loc | ation | Amount | Packer | Location | 1 | |
| PLUGS USED A | ND DEPTH PLACED | | BRIDGES | CASING AND TUBING | | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LOCATION | RECOVERED | SIZE | LOST |
| | | | | | est or all a resident | |
| No Code | | | | | r pagg kantasi | ne gram gasini |
| | | | | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 938 NO 9742 |
| | | | | | | |
| "parameter of the T | | | | | | 409 - 40° pl |
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| and the state of t | | | H | 42.00 | | |
| in the state of th | | | | | | |
| | | | | | | |
| | | an altope 2: | | | | |
| rillers' Names | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - Augus | scenarilen i | |
| | 100 | | A | | | and the same |
| emarks: | | en a la en en en | | | | |
| A COMPANY AND THE RESIDENCE CONTRACTOR | | | | 10 10 PA 10 PA 10 PA | | 4.1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| DATE | hereby certify I vis | ited the above | e well on this date. | | | |



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION CHARLESTON 25305 FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT



APR 1 5 1986

10-29-84

Company: STERLING DRILLING PROD. CO., INC. Permit No. 47- 13-3812 Farm: BOWMAN, GERALD M. Well: VILLERS 1073 Counts: CALHOUN

| | | In Compl | iance | |
|-------|---|--|--|---------------------------------------|
| Rule | Description | Yes | No | |
| | | | 1000 1000 1000 0000 0000 0000 1000 100 | 00 0000 0000 0000 0000 0000 0000 0000 |
| 23.06 | Notification prior to starting work | 2 12 2000 1000 1000 1000 0100 0-00 0-00 | AND 2-25 MICH 2-25 -26 -26 2-26 2000 CR17 | |
| 25.04 | Prepred before drilling to prevent waste | | | |
| 25.03 | High pressure drilling | | 90% 50% 60% 00% 00% 50% 50% 50% 00% | |
| 16.01 | Required permits at wellsite | | | |
| 15.03 | Adequate Fresh Water Casins | 1000 6001 00x 0100 00x0 0000 0000 0000 | 1800 2000 2 of \$500 V of 2 of Total 5500 5500 | |
| | Adequate Coal Casing | | 5400 St. o 4500 5500 1500 1600 5500 1600 1600 | |
| | Adequate Production Casins | **** **** **** **** **** **** **** | | |
| | Adequate Cement Strensth | | 1000 DEER 1000 DEER 1000 DOES A 1000 1000 | |
| | Cement Type | **** **** **** **** **** **** **** **** **** | 600 000 000 000 1-0 c-4 1-0 000 000 | |
| | Maintained Access Roads | | | |
| | Necessary Equipment to Prevent Waste | | | |
| | Reclaimed Drillins Pits | | | |
| | No Surface or Underground Pollution | | MORE MADE STATE STATE | |
| 23.07 | Requirements for Production & Gathering Pipelines | | | |
| 16.01 | Well Records on Site | | | |
| 1 2 | Well Records Filed | | Labo case som unse som som time seek of ! | |
| 7.05 | Identification Markinss | Make 6844 1689 1782 8801 5601 8601 8805 8801 | MAN SOL SSS 4-15 8 68 8000 SM | |
| | | | | |

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

DATE 4-12-86

Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above well will remain under bond coverage for the life of the well.

Director-Oil and Gas Division

April 21, 1986

Date

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION
CHARLESTON 25305
FINAL INSPECTION REPORT



cms and STERLING DRILLING PROD. CO.: INC. Permit No. 4/- 13-301

Rule Bescription Ves No Noticinsting Prior to starting work

25.06 Noticinsting Prior to starting work

25.06 Prepried before drilling to Prevent Waste

25.07 High Pressure drilling

25.07 Hade a to Figure Bestrance

26.07 He count of Time Prior Casing

27.07 Ad accle Production Casing

27.07 Ad accle Production Casing

27.07 Ad accle Production Casing

27.08 Maintained Access Roads

27.09 Maintained Access Roads

27.09 Maintained Access Roads

27.09 Maintained Access Roads

27.09 Maintained Brilling Pile

27.09 Maintained Brilling Pile

28.09 Maintained Brilling Pile

HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED!

SIGNED LESS SELECTIONS R

DATE STILL SELECT

Your sell record was recaived and reclamation requirements approved. In accordance of the Chartes 225; Article 1: Section 26; the above well will remain under bond of covereductor the life of the well.

Director Dil and Das Division

Alto I I Trade

9151

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

| 1.0 API well number: | 1 | /7 - | 012 - 2012 | - | |
|--|----------------------|-----------------------|-------------------------------|--|--|
| (If not assigned, leave blan | k 14 digits.) | 47 | 013 - 3812 | DECE! | WED - |
| 2.3 Type of ceremination being | ng sought: | | | ING GE | |
| (Use the cooss found on the | | | 107 | | - 9/11 |
| of this formul | i | Sec | tion of NGPA | Category Code | |
| 10 Depth of the corporat comp | Aerion | | | JUL 5 | 1985 |
| location: (Only needed if | | • | 5094 | (-OIL 9 OA | |
| or 107 in 2.0 shove. | | • | | OIL & GA | S DIV. |
| The state of the s | | | | DEPT. OF | MINES |
| 4.0 Nerne, address and code nu | imper of | rling Drilling | and Productio | n Co. Inc. | 018084 |
| applicant: {25 letters per l | | • | | | Seller Cac |
| meximum. If code number | r not Name | Virginia St. E | ast Arcade Bu | ilding | Series Care |
| everlable, leave blank.) | | Virginia St. L | ase, mease sa | THE RESERVE THE PROPERTY OF TH | |
| | Screet | 1 -1 - UNI 253 | n1 · | | |
| | | leston,, WV 253 | | | |
| | GN | | Sta | To Cox | |
| 5.0 Location of this west: [Co. | | | | | |
| or tbi_l . | ! | Lee District | | | |
| (a) For anchare wells | Field P | | • | | |
| (35 letters meximum fo | r field . | Calhoun · | | nuoviniowe s | • |
| Lamen | Courty | • | Sta | re V!V | - |
| Ibi For OCS wells: | , | | | | |
| | 1 | | | | |
| | . Arms N | arne | | Block Nur | Def |
| | i | | | | |
| | | Dett | of Lease: | | |
| 1 | i | | 1111 | | |
| | i | Ma. | Day Yr. | OCS Lasse Number | |
| Ici Neme and identification | number | | | | |
| of this west: (35 letters | and digits . V | illers #1073 | | | |
| meximum | 4500 mall adjudences | | | | |
| (a) If com 4 or 5 in 2.0 ap | ove, name | | | | The second secon |
| of the reservoir: (35 let | rrars I | | | | |
| Lmumixem | | | | | |
| 6.0 (a) Name and coos number | of the | | | | |
| purchaser. (35 letters a | nd digira | deser. | | | |
| meximum. If code num | | Undedi | cated | | |
| aveilable, leave blank,) | Name | | | | Buver Coce |
| (b) Care of the contract: | | | | | 3011 0301 |
| | | | 1 1 1 1 1 | | |
| i | | | Ma. Day | Yr. | |
| (c) Entimeted total annual p | roduction 1 | | | | |
| from the well: | 1 | | 29.5 | Million Cub | C Fagg |
| | | | | | |
| | İ | | | Id All Other | (4) 7 |
| | į į | (a) Base Price | (b) Tax | Prices (Indicate | (d) Total of (a) |
| • . | | | | (+) or (-).] | (b) and (c) |
| 7.0 Commer prior: | 1 | | | 1 | 1 |
| (As of filing orrs. Complete | UTBMMLZ! Las | 6 03 4 | | | |
| בשטבום ואותספט | | | course I county yourse course | | |
| 8.0 Maximum lawrui rate: | - | | | 1 | 1 |
| (As of filling care. Complete | to 3 S/MMBTU | 6 03 4 | | i | ! |
| Cecimal claces | 1 | 0 0 5 4 | - | | |
| 9.0 Person responsible for this a | ocucanon: | | | | |
| S.G. FIRMITELEMINIDE IG. (III) | Harr | r∤ L. Berger. J | r. | Nesigna | ted Agent |
| Aconcy Use Only | Narrof / | 1 | 1 | Title | |
| | | aus d. 1 | Devo. | *** | |
| 2 tr 5 fectives 57 July 1985 | Signatur | | aryes. | | |
| Sate Received by FERC | | 2, 1985 | / | 304-342-0 | 121 |
| and recovered or really | | Our near of Community | × | 00:0:0 | |

FEDC 171 18-871

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

JUL 30 1985

| 11115 CAS DIVISION |
|--|
| OR WELL CLASSIFICATION 47-013-3812 |
| AGENCY USE ONLY |
| Co., Inc WELL DETERMINATION FILE NUMBER |
| |
| 850705 -1073-013 - 3812 |
| Use Above File Number on 311 |
| Communications Relating to This Well |
| SDP #1073 |
| Designated Agent: Harry L. Berger, Jr. |
| Address: 710 Virginia St., E., Arcade B |
| Charleston, WV 25301 |
| FERC Buyer Code |
| ING THIS APPLICATION SHALL |
| Vice President and Land Manag |
| (Title) |
| eade Bldg. |
| (Zip Code) |
| ser) |
| lied For |
| |
| 108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Budlet |
| 108-3 Temporary Pressure Buildu |
| AGENCY USE ONLY |
| QUALIFIED |
| 12/08/2023 |
| |

Date Received

JUL 5 1985

OIL & GAS DIV DEPT. OF MINES

Determination

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

| Operator: Sterling Drilling & Production Co. Agent: Harry L. Berger, Jr. |
|---|
| Type Determination being sought - 107 (Devonian Shale) |
| API Well No.: 47-013-38/2 Well Name: #1073 Villers |
| West Virginia Office of Oil and Gas County: Calhoun References: SJA File No. |
| Vol Page Line |
| I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis. |
| II. Gamma Ray elevation indices: |
| A. Shale Base Line (API Units) |
| 1. GR Value at Base Line = 165 * API Units 2. Remarks: |
| • |
| |
| B. Gamma Ray Log Value at 0.7 x Value at Base Line |
| 1. GR Value = 1/5.5* API Units 2. Calculation: 0.7 (GR Value at Base Line) 0.7 (165 *) = 1/5.5 API Units |
| III. Intervals with GR index less than 0.7 x (Value at Base Line): |
| Interval |
| From** To*** To*** Feet O.7 (Shale Base Line) Feet |
| 2414' 5066 . 2652' 40' |
| |
| |
| |
| |
| |
| Total Devonial Interval 2652' |
| otal Less Than 0 7 (Chala Barra) |
| Less Than 0.7 (Shale Base Line) = $0.0339x = 100 = 3.4\%$ |
| $\frac{3.4}{\%}$ |
| 12/09/2022 |

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column.

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval

in this Column.

STATE OF WEST VIRGINIA

Date __July 2, 1985

DEPARTMENT OF MINES OIL AND GAS DIVISION Operator's Well No. Villers #1073

API Well No.

47 - 013 - 3812 State County Permit

WELL CLASSIFICATION FORM HIGH COST CAS WELL - DEVONIAN SHALE NGPA Section 107

| , | DESIGNATED AGENT Harry L. Berger, Jr. | | | | |
|---|---|--|--|--|--|
| | ADDRESS Arcade Building; 710 Virginia St., E | | | | |
| • | Charleston, WV 25301 | | | | |
| | LOCATION Elevation 1015.75' | | | | |
| WELL OPERATOR Sterling Drilling & Production | n CoWatershed Big Run | | | | |
| ADDRESS 710 Virginia Street, East | Dist. Lee County Calhoun Quad. Annamrh 7 | | | | |
| Charleston, WV 25301 | Cas Purchase | | | | |
| .GAS PURCHASER Undedicated ADDRESS | Contract No Meter Chart Code | | | | |
| ADDRESS | Date of Contract | | | | |
| * * * | * * * | | | | |
| Date surface drilling began: November | r 29 1984 | | | | |
| Indicate the bottom hole pressure of the v | | | | | |
| indicate the bottom note pressure of the | ter and express now entry was entertained. | | | | |
| | | | | | |
| Bottom Hole Pressure. PSIA Pf = Pwe X | LGS | | | | |
| (0 + (0 0075 x 5094) + 459.67 = 5 | $58 \cdot x = \frac{1}{63.37} \times \frac{558}{} = .0000336$ | | | | |
| 925 × 2 2183 10000336 × 401 | $7 \times .690 \times 1.67 = .022$ PSI. | | | | |
| AF | FIDAVIT | | | | |
| described in subparagraph (3)(i) or (3)(i report described in subparagraph (3)(ii)(of potentially disqualifying non-shale for percent of the gross Devonian age interval | ge of the producing interval which is not y index of less than 0.7 if a Gamma Ray log i)(A) has been filed, or as indicated by the B); I have demonstrated that the percentage otage is equal to or less than five (5) 1; and I have no knowledge of any information inconsistent with a conclusion that the well | | | | |
| STATE OF WEST VIRGINIA | | | | | |
| COUNTY OF Kanawha, TO-WIT: | | | | | |
| I, Jo Ann K Brooks, a Notar | y Public in and for the state and county | | | | |
| aforesaid, do certify that Harry L. Berg | er, Jr., whose name is signed to | | | | |
| the writing above, bearing date the 2 md | day of July , 19 65 , has | | | | |
| acknowledged the same before me, in my co | unty aforesaid. | | | | |
| Given under my hand and official seal thi | 8 2 nd day of July , 1985. | | | | |
| My term of office expires on the 2774 da | y of October, 1991. | | | | |
| Secting Willing and Traduction Co. Int. 010 Virginiu St. E. Chaneston WV 25301. All Cammission Espires October 27: 1591 | 3) Oak Brooks | | | | |
| STATE OF WEST VINCEINIA (TVES TATEOL | Notary Dublic | | | | |

NOTARY PUBLIC

