

| 1) | Date: Sep | tember | 7 | , 19 | 83 |
|----|---------------------|--------|--------|------|------------|
| 2) | Operator's Well No. | 817 | 14 1 | | |
| 3) | API Well No. | 47 | 013 | 3656 | Dr. Joycon |
| | | State | County | | Permit |

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

| | | | | - | T LICITIO | N TOR II WE | LL WORK PERMI | | |
|--------------------------|--|--------------|-------------|-------------|----------------|------------------|---|--------------------------|--|
| 4) WELL TY | PE: A C | ili W. Cli | / G | as | | | | DIFTOATIONS | F PERMIT ME |
| | B (1 | f "Gas", | Productio | n | X/ | | storage | | |
| 5) LOCATIO | N: Ele | evation: _ | 837.3 | 33' | No. | | | | of L. Kanawha Rime |
| | | strict: | Lee | 14.0 | | County:C | alhoun | Quadrangle: _ | 7.5' Arnoldsburg |
| 6) WELL OP | ERATOR. | Sterli | ing Dri | llir | ng & Pro | <u>d.</u> Co., I | ng. DESIGNATE | | L. Berger, Jr. |
| Address | | | | | fth Floo | <u>r</u> | Address | 710 Virgi ņ i | The state of the s |
| | New | York, | New Yo | ork | 10017 | | | Charleston. | W.V. 25301 |
| B) OIL & GA | | | | FIED | | | 9) DRILLING C | | |
| Name | ALCOHOL: THE RESERVE OF THE PERSON OF THE PE | o Mace | | | | _ | Name | UNKNOWN AT | THIS TIME |
| Address | CAN CARRY TO SERVICE STATE OF THE SERVICE STATE OF | t. 1 E | | | | | Address | PARTITION | |
| | _5 | andric | lge, W. | | | | 1011 | 101200 | 6111 |
|)) PROPOSE | D WELL | WORK: | Drill | X | _/ Drill | deeper | / Redrill | / Stimulate | |
| | | | | | | | rate new formation | SEP 3 0 198 | 3 |
| | | | | | | ell (specify) | | SEP 30 130 | 3 |
| i) GEOLOGI | CAL TAR | GET FOR | MATION | , <u>BI</u> | COWN SHAI | <u>-</u> E | 2.50 m | | |
| 12) Estima | | | | | | feet | | OH & GAS DIV | ISION |
| | | | | | 0 | feet; sal | t, | TIL DE N | INES . |
| 14) Appro | | | | | 0 | Is co | oal being mined in the | OIL & GAS DIV | / NoX |
| 5) CASING A | AND TUBI | | | | | | | | t. |
| CASING OR TUBING TYPE | | SPEC | Weight | 8 | | FOOTAGE | INTERVALS | OR SACKS | PACKERS |
| | Size | Grade | per ft. | New | Used | For drilling | Left in well | (Cubic feet) | |
| onductor | | | | | | Market and Aug. | | | Kinds |
| resh water | 9 5/8 | LS | 33# | X | | 200' | 200' | To Surface | By Ruk 15.05 |
| oal | 7". | 1.55 | 00" | · · | | 0.070.1 | | | Sizes |
| termediate | | J-55 | 20# | X | | 2020' | 2070' | 100 sks | |
| roduction | 4 1/2 | ERW | 10.5# | X | | THE TOWN | 5150' | 250 sks | Depths set |
| ubing | | | | | | | ALTERIA | | |
| iners | | | | | | | | | Perforations: |
| | | -aniins | toni nis | WOHO . | T VIII DIE | PROUE THOSE | nietraggo werkh | 9 11 D10091 (1) 21 (6 | Top Bottom |
| | | | | | | | The Control of the | | |
| | He said | | | | | | 7185 | | |
| | | | | | | | | | |
| | | | | C HELD | OF | FICE USE | ONLY | 19 | DAMES SECTIONS LIBERT |
| | | | | | | ILLING PE | | | |
| | ,. | 7 010 | 2656 | | | | | | Vell work started 4 |
| ermit number_ | 4. | 7-013- | 3030 | | | | | October | |
| | | -11 | | 1.1 | b b-1 | | | Dat | |
| irements subje | ct to the co | onditions of | contained | herein | and on the re- | verse hereof. | of permission grant otification must be | given to the District Oi | ce with the pertinent legal re- and Gas Inspector, (Refer to |
| . 8) Prior to th | ie construc | tion of ro | ads, locati | ons an | d pits for any | permitted work | In addition, the w | vell operator or his con | ce with the pertinent legal re- land Gas Inspector, (Refer to tractor shall notify the proper |
| strict oil and g | as inspecto | r 24 hours | s before ac | tual pe | ermitted work | has commence | ed.) | | 300713-301 0012-071 001 |
| | ork is as de | escribed in | the Notic | e and A | Application, p | lat, and reclam | ation plan, subject | to any modifications a | nd conditions specified on the |
| verse hereof. | Octo | her 1 | 9, 198 | 5 | | | | | |
| ermit expires | 0000 | JDCI I | , 100 | | | unless wel | work is commenced | i prior to that date and | prosecuted with due diligence. |
| | | 8 - 6-5 | | | | | | | MUHER INSPECIOENTS |
| | | t: 1 | Plat: | Casi | // | | | | |
| Bond: | Agent | | 111 | | | | | | |
| | Agent | de | 2 | 1 | 555 | 6 | | 10 | HO2897 |
| | Agen | O. | | 2 | 222 | 6 | 1 | 7/1 | 1 102.897 |
| | Agen | O. | | | 222 | 6 | 7 Adm | inistrator, Office of O | il and Gas |

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.





STATE OF WEST-VIRGINIA OFFICE USE ONLY

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

OFFICE USE ONLY

DRIFTING PERMIT

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date

This permit covering the well operator and web focalion shown below:

Application received

Follow-up inspection(s)

The permitted work is as described in the Modec and Application, play, and reclaimanon plan, suffect to any modifications a

Well work started

Completion of the drilling

process

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason:

Reason:

COAL OWNER'S COPY



| 1) | Date: Sep | tember | 7 | , 1983 |
|----|---------------------|--------|--------|--------|
| 2) | Operator's Well No. | 817 | | |
| 3) | API Well No. | 47 | 013 | 3656 |
| | | State | County | Permit |

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

| 4) WELL | TYF | PE: A C | oil | / Ga | s <u>X</u> | / | | | | |
|-------------------------|-------|-------------|-------------|--|------------|------------|----------------------|---------------------------|--------------------------|--|
| | | B (1 | f "Gas", | Production | | X | / Undergroun | d storage | / Deep | _/ Shallow/) |
| 5) LOCA | TIOI | N: Ele | evation: _ | 837.3 | 31 | | _ Watershed: | Mushroom Run | of W. Fork o | of L. Kanawha River |
| | | | strict: | | | | | Calhoun | Quadrangle: | .5' Arnoldsburg |
| 6) WELL | OPI | ERATOR | Sterli | ing Ori | llin | g & P | rod. Co., | (7) DESIGNATE | AGENT Harry | |
| Add | ress | 360 | Madiso | on Ave. | Fif | th Fl | oor | Address | 710 Virgini | ia St., E. 😼 |
| | | New | York. | New Yo | rk | 10017 | | | Charleston, | W.V. 25301 |
| 8) OIL & | GAS | SINSPEC | TOR TO | BE NOTIF | TED | | | 9) DRILLING CO | ONTRACTOR: | |
| Name | | De | o Mace | | | | | Name | UNKNOWN AT T | HIS TIME |
| Add | ress | B | t. 1 | lox 5 | | | | Address | | |
| | | | andric | loe. W. | V. 2 | 5274 | | | | |
| 10) PROPO | OSF | D WELL | WORK. | Drill | X | / Drill | deeper | / Redrill | / Stimulate | , |
| io, TROI | | WEEL | WORK. | | | | | | | |
| | | | | | | | | orate new formation | | |
| 11) GEOL | OCI | CAL TAD | CET FOR | | | | | | | |
| 12) Fo | ima | tod donth | of complet | ad wall | | STEA | | , | | |
| | 1000 | | | | | | | | Cont | |
| | | | | | | | | | | , N. V |
| | 755 | | | | | | IS C | coal being mined in the | e area? Yes | / No/ |
| 15) CASIN | GA | ND TUBI | | | | | | | | |
| CASING OR TUBING TYP | E | | SPEC | | | | FOOTAGE | EINTERVALS | OR SACKS | PACKERS |
| | | Size | Grade | per ft. | New | Used | For drilling | Left in well | (Cubic feet) | |
| Conductor | | | | | | | | | | Kinds |
| Fresh water | | 0 5/8 | 15 | 33# | У | | 2001 | 2001 | To Surface | But the town |
| Coal | | 2 010 | San SJ | 0011 | | | 200 | 2.00 | 10 3011000 | Sizes |
| Intermediate | | 78 | 3-55 | 204 | X | | 20201 | 20701 | 100 sks | |
| Production | | 4 1/2 | EBM | THE PERSON NAMED IN | y | | | | | Depths set |
| Tubing | | | Sept 421 | | | | | 7.00 | 600 000 | |
| Liners | | | | | | | | | | Perforations: |
| | | | | | | | | | | Consequence of the second |
| | | | | | | | | | | Top Bottom |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | INST | TRUCT | IONS T | O COAL OPERA | TOR, OWNER, OR | LESSEE | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | filed with the Depa | artment of Mines with | | |
| | | or tills Ap | рнеацоп | oy the Dep | artificii | | | | OCTOBEL | ate/ No |
| | | | The follo | Drill / Drill deeper / Redrill / Stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) / MATION, BROWN SHALE ed well, 5150 feet Fresh, feet; salt, feet. ths: Is coal being mined in the area? Yes / No / A / GRAM FOOTAGE INTERVALS GRAM FOOTAGE INTERVALS GRACKS (Cubic feet) Kinds Sizes S | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | and the second s |
| | | | | | | | | | | |
| | | | | | | | WAIVE | 1 | | |
| The unders | igne | d coal ope | rator | | | / owner | | / lessee | / of the co | nal under this well location has |
| | | | | If a mine | map ex | ists which | h covers the area o | of the well location, the | e well location has been | n added to the mine map. The |
| indersigned | has I | no objectio | on to the w | vork propo | sed to b | oe done a | t this location, pro | ovided, the well opera | tor has complied with | all applicable requirements of |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HA | | t | | Lineal | Land | 1 | 556 | | | / |
| 1-1-1-1 | | **** | | | should be | | 10 | - | 111 | 1 |
| Date: | | | | , 19 | | | | By | The first | X |
| | | | | | | | | | | |
| | | | | | | | | Ita | | |

August 3 1) Date: 2) Operator's

817 Well No.

3) API Well No.

State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINE

| | a imas, office | |
|---------|---|--|
| | NOTICE OF APPLICATION FOR A WE | LL WORK PERMIT |
| (i) | Name Emmons B. Smith | (i) COAL OPERATOR UNOPERATED Address |
| (ii) | Address Rt. 3 Box 500 Arnoldsburg, W.V. 25234 5(in Address | Name UNKNOWN Address |
| (iii) 1 | Name Address | Name Address |
| | | i) COAL LESSEE WITH DECLARATION ON RECORDS Name Address |
| TO THE | E PERSON(S) NAMED ABOVE: You should have recently to the Application for a Well Work Permit on I to be plugged, which sets out the parties and describes the well and its location and cementing program; | ived this Form and the following documents: Form IV-2(B) (or Form IV-4 if the well is involved in the drilling or other work. It, if applicable, the proposed casing and location on Form IV-6; and location on Form IV-6; and location and sediment control and for |
| | (3) The Construction and Reclamation Plan on For plug a well), which sets out the plan for execumentary for the site and access road. THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT | erosion and sediment control and for |

ARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Harry Y. Berger, Jr. this 3 day of August My commission expires M. Notary Public, Kanawha State of West Virginia

Prod. Its Designated Agent Address 10 Virginia Charleston Telephone

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

Is 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

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 Reclamation Plan.

05/17/2024

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE TIEMS:

- 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 § 22-4-1b(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.

4 6

- 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 § § 22-4-1m, 22-4-2, 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 cath required to make the verification on the coverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- 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 |
|-----------------------------|--|---------|-----------|
| O. Ray Reading Ray Grimm | Sterling Drilling and Production Co., Inc. | 1/8 | 085 / 176 |



| IV-3 | 35 | |
|------|------|---|
| (Rev | 8-81 | ١ |

OPERATION OPERATION Well

Bepartment of Mines Bil und Gas Bivision

| Date3/28/84 | |
|---|---|
| Operator's | • |
| Operator's Well No. 817 Farm O. Ray Reading | |
| Farm O. Ray Reading | |
| API No.47 - 013 - 3656 | |

hours

hours shut in

| MAY 1 - 1984 | The second | | -47 01. | |
|---|----------------|------------|-----------------------|--|
| OIL & GAS DIVISION WELL OPERATOR OF MINES OF DEPT. OFILLING, FRACTURING AND/OR STIM | R'S REPORT | | | |
| OF MINES OF | אווו איידאער | OD DUVETOR | T CHANCE | |
| DEPT. EIGHING, TRACTORING AND/OR STILL | INTALTIAG, | OK PHISICA | T CHANGE | |
| WEIL TYPE: Oil V / Cook / Limid Triantic | - / 17 | t- D' | | |
| WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Undergro | ound Stora | ge / Dec | ep / Sha | allowy /) |
| | | | | |
| LOCATION: Elevation: 837.33 Watershed Mu | | | | |
| District: Lee County Calh | ioun | _Quadrangl | e 7.5' Arn | oldsburg |
| | | | | L, 1-11-11-11-11-11-11-11-11-11-11-11-11-1 |
| COMPANY Sterling Drilling & Production Co., Inc. | | | | |
| ADDRESS 710 Virginia St., E, Charleston, WV | | T | 1 | Cement |
| DESIGNATED AGENT Harry L. Berger, Jr. 25301 | Casing | Used in | Left | fill up |
| ADDRESS 710 Va. St., E. Charleston, WV 25301 | Tubing | Drilling | in Well | Cu. ft. |
| | Size 20-16 | | - N 981 | |
| SURFACE OWNER Rmmond N. Dmiyh | Cond. | | | |
| ADDRESSRt 3, Box 500 Arnoldsburg, WV 25234 | 13-10" | 0.000 | A PAGE | |
| MINERAL RIGHTS OWNER O. Ray Reading | 9 5/8 | 220' | 220' | surface |
| ADDRESS General Delivery, Arnoldsburg, WV 25234 | 8 5/8 | | and the second second | |
| OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace | 7 | 2077 | 2077' | 175 sx |
| ADDRESSRt 1 Box5, Sandridge, WV | 5 1/2 | | | 2 35 |
| 10/19/83 | 4 1/2 | 5112' | 5112' | 290 sx |
| DRILLING COMMENCED 2/1/84 | 3 | | UIIL | 200 3 |
| DRILLING COMPLETED 2/7/84 | 2 | | | |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON | | - 10.00 | | |
| CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED | Liners used | - KG | väx . | |
| CN_ | usur | | | |
| GEOLOGICAL TARGET FORMATION Devonian Shale | | Dept | th 5150 |) feet |
| Depth of completed well 5160 KB feet | Rotary X | | e Tools | |
| Water strata depth: Fresh 355 feet; | | | - 10015 | |
| Coal seam depths: | | | od in the | NO |
| | . Is coal | being mine | a m me | area? NU |
| OPEN FLOW DATA | | | | |
| Producing formation Devonian Shale | Pay | zone dept | h 3205-50 | 82 feet |
| Gas: Initial open flow 5 Mcf/d | Oil: Ini | tial open | flow Sho | w Bbl/d |
| Final open flow 368 Mcf/d | Fir | al open fl | Low 20 | Bbl/d |
| Time of open flow between init | ial and fi | nal tests | 6 hou | irs |
| Static rock pressure 780 psig(surface | e measurem | ent) after | 168 hour | //2024 cs shut in (|
| (If applicable due to multiple completion- | | | | |
| Second producing formation | Pay | zone dept | h | feet |
| Gas: Initial open flow Mcf/d | | | | |
| Final open flow Mcf/d | | | | |

Time of open flow between initial and final tests

psig(surface measurement) after

Static rock pressure

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

Perforations:

Stage One:

Stage Two: Stage Three:

25 holes 4376' - 5082' 20 holes 3862' - 4281' 23 holes 3205' - 3730'

Treatment:

1000 gal 15% HC1; 1512 MSCF N_2 ; BD 3260# 1000 gal 15% HC1; 1344 MSCF N_2 ; BD 2460# 1000 gal 15% HC1; 1245 MSCF N_2 ; BD 2900#

Stage One: Stage Two: Stage Three:

9

WELL LOG

| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | Including indication of all fr |
|--|---|---|--|
| | 101 11251 | 2011011231 | and salt water, coal, oil and |
| | | | All measurements 10' KB |
| andstone and Shale | 0 | 920 | |
| alt Sand | 920 | 1150 | Comment of the Commen |
| andy Shale | 1150 | 1465 | |
| alt Sand | 1465 | 1640 | |
| hale | 1640 | 1675 | |
| axon, limey | 1675 | 1711 | |
| hale | 1711 | 1718 | |
| ittle Lime and Sand | 1718 | 1760 | |
| encil Cave | 1760 | 1770 | |
| ig Lime | 1770 | 1930 | |
| andy Siltstone, Shale | 1930 | 2249 | Response to the experience of the second |
| unbury Shale | 2249 | 2265 | |
| erea | 2265 | 2267 | |
| andy Siltstone | 2267 | 2582 | and the state of t |
| ordon & Gordon Stray | 2582 | 2609 | |
| rey Silty Shale | 2609 | 4621 | |
| andy Siltstone | 4621 | 4654 | a committee of the comm |
| Grey Silty Shale | 4654 | 4806 | |
| andy Siltstone | 4806 | 4866 | AND |
| Grey & Dark Shale | 4866 | 5160 | TD 5160' KB |
| | | | No. 19 C. M. M. S. W. 1997 Co. 1971 Co. |
| | | | AN TAIL THE SAME OF THE STATE OF |
| | the second second | | |
| | | The Best March 19 | DESTRUCTION OF THE PROPERTY OF |
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| | the second second | all and are | |
| | The second second second | | |
| | | | ALTER VINCE FIRM |
| | | | |

(Attach separate sheets as necessary)

| Sterling | Drilling | and | Production | 95/1 | 779024 |
|----------|----------|-----|------------|-------|--------|
| | Operator | | 1 | 00, . | ., |

Date:

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

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

13-3656 DEPT. OF MINES Oil or Gas Well. (KIND) CASING AND USED IN LEFT IN PACKERS Size Address 16 Kind of Packer____ 13 Well No Size of____ 81/4_ 65%___ Drilling commenced Depth set____ 5 3/16_ Drilling completed_____Total depth_ Perf. top____ Date shot_____Depth of shot___ Perf. bottom Initial open flow_____/10ths Water in____Inch Liners Used Perf. top____ Open flow after tubing_____/10ths Merc. in____Inch Perf. bottom_ Volume __Cu. Ft. CASING CEMENTED____ SIZE____No. FT.____Date Rock pressure____ NAME OF SERVICE COMPANY lbs_ hrs. Oil ___bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_____FEET___INCHES Fresh water____ feet feet FEET _INCHES____FEET_ INCHES Salt water_

feet

FEET

INCHES

Remarks:

Drillers' Names

2-2-84

Wes Mas 17/2024

FEET_

INCHES

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

| ermit No. | | | | Wel | l No | |
|---------------------|---|--|--|---|---|--|
| | | | ADDRESS | | | |
| ARM | | DISTRICT | CC | UNTY | | |
| lling Material Used | | | | | | |
| ner Loc | ation | Amount | Packer | Location | | |
| | ND DEPTH PLACED | | BRIDGES | 1 | G AND TU | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LOCATION | RECOVERED | SIZE | LOS |
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| rillers' Names | | and the same of th | ه ه معادل المعادل المع | enceparent service anno medi indicatation philadeloop agencia agencia agencia anno agencia anno | *************************************** | |
| emarks: | egysphoregisen materinge under seite grund gestach die felben einem Abriel Arbeit an der eine gestacht de entsy | | | erwines (troops has envery problem on an inches properties (figures a 1994) | • | THE PERSON NAMED IN COLUMN |
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| | | | | | | |
| DAYE | I hereby certify I | visited the abo | ve well on this date. | | | |
| | | | | | | |

05/17/2024

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

| | | | (KI | ND) | |
|--|----------------------|---|---------|--------------|--------|
| Company Sterling | CASING AND TUBING | USED IN DRILLING | LEFT IN | PA | CKERS |
| Address | Size | | | | |
| Farm Reading | 16 | | | Kind of Pa | acker |
| Well No. 8/7 | 13 | | | Size of | |
| District Lee County Cal | 81/4 | | | Size of | |
| Drilling commenced | 6% | | | _ Depth set_ | |
| Drilling completedTotal depth | 5 3/16 | | | 7 | |
| Date shotDepth of shot | 2 | | | | om |
| Initial open flow/10ths Water inInch | Liners Used | | | | |
| Open flow after tubing/10ths Merc. in Inch | | BARTING THE STATE OF THE STATE | | Perf. botto | m |
| VolumeCu. Ft. | CASING CEMEN | NTED | _SIZE | No. FT_ | Date |
| Rock pressurelbshrs. | NAME OF SER | | | | |
| Oilbbls., 1st 24 hrs. | COAL WAS EN | COUNTERED A | AT | FEET | INCHES |
| Fresh waterfeetfeet | FEET_ | INCHE | ES | FEET | INCHES |
| Salt water feet feet | FEET_ | INCHE | ES | FEET | INCHES |
| Drillers' Names Hunt 8 | | | | | |
| | | | | | |
| 220' 938" casing, 8 | | ment & | Dowel | 1 2-2 | 1.84 |
| Ron Centeralya & Bass | bed | | | | |
| 1308' lodge. | | | | | |
| 2-3-84 | | 65 | 2000 | 105(17) | 2024 |
| DATE | | 4 | | | |

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

| OMBANY | | | ADDRESS | | | | |
|----------------------|--|------------------------------------|-----------------------|---|--|--|--|
| | | | | | * | | |
| ARM | | DISTRICT | | COUNTY | | | |
| illing Material Used | the control of the co | | | | | | |
| iner Loc | cation | Amount | Packer | Location | | | |
| PLUGS USED A | ND DEPTH PLACED | | BRIDGES | CASIN | CASING AND TUBING | | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LUCATION | RECOVERED | SIZE | LOST | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | 75-15-1-15-15-15-15-15-15-15-15-15-15-15- | | and the same | |
| rillers' Names | | Commence or completely of the com- | | | ndera agree enhancement ann an dealta de | | |
| emarks: | | | | | | proprieta de la companya della companya della companya de la companya de la companya della compa | |
| emarks: | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| DATE | I hereby certify I | visited the above | e well on this date. | | | | |

IV-20 Obverse 1-84

TMS/



State of Mest Birginia

Department of Mines Gil and Gas Division Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 11, 1984



OIL & GAS DIVISION
DEPT. OF MINES

05/17/2024

| | May 11, 198 | 4 |
|--|--|------------------------------------|
| COMI, VNA | Sterling Drilling & Production | PERMIT NO013-3656 |
| 710 Vi | rginia Street, East | FARM & WELL NO O. Ray Reading #817 |
| Charle | ston, West Virginia 25301 | DIST. & COUNTY Lee/Calhoun |
| RULE | DESCRIPTION | IN COMPLIANCE |
| 23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05 | Notification Prior to Starting Work Prepared before Drilling to Prevent High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strength Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gather Well Records on Site Well Records Filed Identification Markings | ing Pipelines |
| Your well with Char coverage | nspected the Above Captioned Well and record was received and reclamation pter 22, Article 4, Section 2, the about for the life of the well. | DATE 10-18-84 |
| IMS/nw | | DAIL |

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL

| 1.0 API well number: | UNDER THE NATU | RAL GAS POLIC | Y ACT (NGPA) | CL |
|--|--------------------------|-------------------------------|----------------------|----------------------|
| (If not assigned, leave blank, 14 digirs) | | 47 | 3656 - | |
| 2.0 Type of extermination being sought: (Use the codes found on the front of this form.) 3.0 Depth of the deepest completion | | 107 Section of NGPA | | |
| or 107 in 2.0 above.) | | | Category Code | |
| 4.0 Name, address and code number of applicant: (35 letters per line | C. 11 | | | |
| msximum. If coos number not | Name | ling and Produc | ction Co. Inc. | 0180 |
| available, leave blank.) | 710 Virginia S | t. East, Arcade | Building | Seller |
| | Charleston, WV | 25301 | | |
| 5.0 Location of this well: (Complete (a) | Cry | | State Z | D Code |
| or (b).] (a) For onshore wells | Lee Distric | + | | |
| (35 letters maximum for field | Field Name | • | | |
| name.) | <u>Calhoun</u> · | Contract of the second second | | |
| (b) For OCS wells: | County . | | State VIV | |
| ! | | | | |
| | Araa Name | | | |
| the state of the s | | | Blocx | Number |
| | | Date of Lasse: | | |
| | | 1111 | | |
| (c) Name and identification number | Mc | Day Yr. | OCS Lesse Number | r · |
| of this well: (35 letters and digits | Reading #8 | 217 | The second second | |
| (a) If man | meading #0 |)17 | | |
| of the reservoir: (35 letters | | | | |
| maximum.) | | | | |
| I (a) Name and code number of the | | | | |
| purchaser. (35 letters and digits | | | | |
| meximum. If code number not | | | | |
| averiable leave blank.) | Name | UNDEDICATED | | |
| (b) Care of the contract: | | | | |
| | | | | Suver Cod |
| (c) Estimeted total annual production | | | | |
| from the west: | | Mo. Dav | Yr. | |
| 1 | | 11 | the same of the same | |
| | | | Million Cu | DIC F 181 |
| Contract once: | (a) Base Price | (b) Tax | Ici All Other | (d) Total of (a) |
| As of filing care. Complete to 3 | | | (+) or (-).] | (b) and (c) |
| Decimen places.) | 5 7 5 8 | | | The second second |
| Asximum tawrut rate: | | | | |
| As of filing and | | | | |
| ECITE DISCEL) | 5 7 5 8 | | | |
| erson responsible for this application: | | | | |
| | lanry/L. Berger, | In 1 | | |
| Agency Use Only Nam | me/ / L. berger, L | | Designat | ted Agent |
| APR' I'U 1984 | Hans I | Denoi J | Time | |
| Sign. | ature / | Jerga D | 0 | 5/17/2024 |
| DEST VO DEST | April 4, 1984 | / | | |
| Dere | Application is Completed | | 304-342-01 | 121 |

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved OMB No. 1902-0031 (Expires 12/31/84)

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buver/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274,501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

| Section of | Category | or type of determination in item 2. | |
|------------|----------|--|-----------------------|
| NGPA | Come | Description | |
| 102 | 1 1 | New OCS lease | |
| 102 | 2 | New onshore well (2.5 mile test) | .00 |
| 102 | 3 | New onshore well (1000 feet deeper test) | |
| 102 | 4 | Haw onshore reservoir | |
| 102 | 5 | New reservoir on old OCS lease | |
| 103 | | New onshore production well | |
| 107 | 0 1 | Deep (more than 15,000.feat) high-cost cas | |
| 107 | 1 1 | Gas produced from geopressured brine | |
| 107 | 2 | Gas produced from coal seams | 11.00 |
| 107 | 3 | Gas produced from Devonian shale | |
| 107 | 5 | Production ennancement gas | |
| 107 | 5 | New tight formation gas | |
| 107 | 7 | Recompletion tight formation cas | _ |
| 108 | 0 1 | Stripper well | |
| 108 | 1 | Stripper well — sessonally affected | and the second second |
| 108 | 2 1 | Stripper weil - enhanced recovery | |
| 109 | 3 | Stripper weil — temporary pressure buildup | |
| 108 i | 4 | Stripper weil — protest procedure | |

| Ontract Date | ng other Purchasers/Contracts. | |
|--------------|--|------------|
| Mo. Da. Yri | Purcheser | Buyer Code |
| (a) | (b) | |
| | | (c) |
| | | |
| | | |
| | | |
| | And the second s | |

marks:

| | 88 AV 1 F 100 A |
|--|--|
| RTICIPANTS: | MAY 1 5 1984 BUYER-SELLER CO |
| WELL OPERATOR: Starling Drille | ing + Production Co. |
| FIRST PURCHASER: | itted |
| OTHER: | |
| W. Va. Department of Mines, Oil & Gas Division | APPROVED |
| WELL DETERMINATION FILE NUMBER | MAY -4 1984 |
| 840410 107-013: 3656 | 1984 |
| Use Above File Number on all Communications Relating to Determination of this Well | |
| TEM NO. | LETE OR NOTE WHAT IS MISSING |
| 1. FERC -121 Items no | ot completed - Line No. |
| 2. IV-1 Agent | |
| . Per well Permit | |
| 4. IV-6 Well Plat | |
| 5. IV-35 Well Record | Drilling Deepening |
| 6. IV-36 Gas-Oil Test: Gas Only | Was Oil Products |
| 7. IV-39 Annual Production | Ratio |
| 8. IV-40 90 day Production | |
| 9. IV-48 Application for certificati | Days off line: |
| -17. IV Form 51 - 52 - 53 | on. Complete? |
| -28. Other: Survey | 56 - 57 - 58 Complete? Affidavit Signed_ |
| Structure Map | Geological Charts |
| Gas Analyses | Well Tabulations |
| (5) Date commenced: | te completed Deepened |
| (5) Production Depth: | Deepened |
| (5) Production Formation: | |
| (5) Final Open Flow: | |
| (5) After Frac. R. P. | |
| (6) Other Gas Test: | |
| (7) Avg. Daily Gas from Annual roduct | ion: |
| 8) Avg. Daily Gas from 90-day ending | 1/1 120 1 |
| 8) Line Pressure: | 771-120 days |
| | PSIG from Daily F. |
| 7. Does lease investory and | Completion Report |
| 7. Does lease inventory indicate enhan | ced recovery being done |
| official well assert | Notarized? 05/17/2024 |
| record with the Department | Dr. Coofie |
| Does | computer program confirms |
| Peter ination Objected to By | Whom? |
| | |
| | |

BUYER-SELLER CODE

STATE OF WEST VIRGINIA

Date April 4, 1984

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Reading #817

API Well No.

47 - 013 - 3656 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

| NGPA Sec | tion 107 |
|--|---|
| | DESIGNATED AGENT Harry L. Berger, Jr. |
| | ADDRESS Arcade Building; 710 Virginia St., E. |
| | Charleston, WV 25301 |
| | LOCATION Elevation 837.33 |
| WELL OPERATOR Sterling Drilling and Product | tion Watershed Mushroom Run of W.Fk. Lit Kan Riv |
| ADDRESS 710 Virginia St., East | Inc. Dist. Lee County Calhoun Quad.7.5 Arnldbg |
| Charleston, WV 25301 | Gas Purchase |
| .GAS PURCHASER UNDEDICATED | Contract No. |
| ADDRESS | Meter Chart Code |
| | Date of Contract |
| * * * * | * * * * |
| Date surface drilling began: 2/1/84 | |
| Indicate the bottom hole pressure of the v | well and explain how this was calculated. |
| | |
| Bottom Hole Pressure. PSIA Pf = Pwe | LGS |
| | |
| | 558 $x = \frac{1}{53.34} \times 558 = 10000336$ |
| Pf = 780 x 2.7183 LOOKO336 x 4/4L | $f \times 1690 \times 1.08 = 865$ PSIA |
| AFI | FIDAVIT |
| I have calculated the percentage of footage Devonian Shale as indicated by a Garma Ray described in subparagraph (3)(i) or (3)(ii) report described in subparagraph (3)(ii)(For potentially disqualifying non-shale for percent of the gross Devonian age interval | index of less than 0.7 if a Gamma Ray log ()(A) has been filed, or as indicated by the (a); I have demonstrated that the percentage otage is equal to or less than five (5) (c); 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, JoAnn K. Brooks, a Notary | Public in and for the state and county |
| | |
| the writing above, bearing date the 4th acknowledged the same before me, in my cou | day of April, whose name is signed to 05/17/2024, has only aforesaid. |
| Given under my hand and official seal this My term of office expires on the 27 day | - 1 1 11 |
| (NOTARIAL SEAL) | Notary Public |

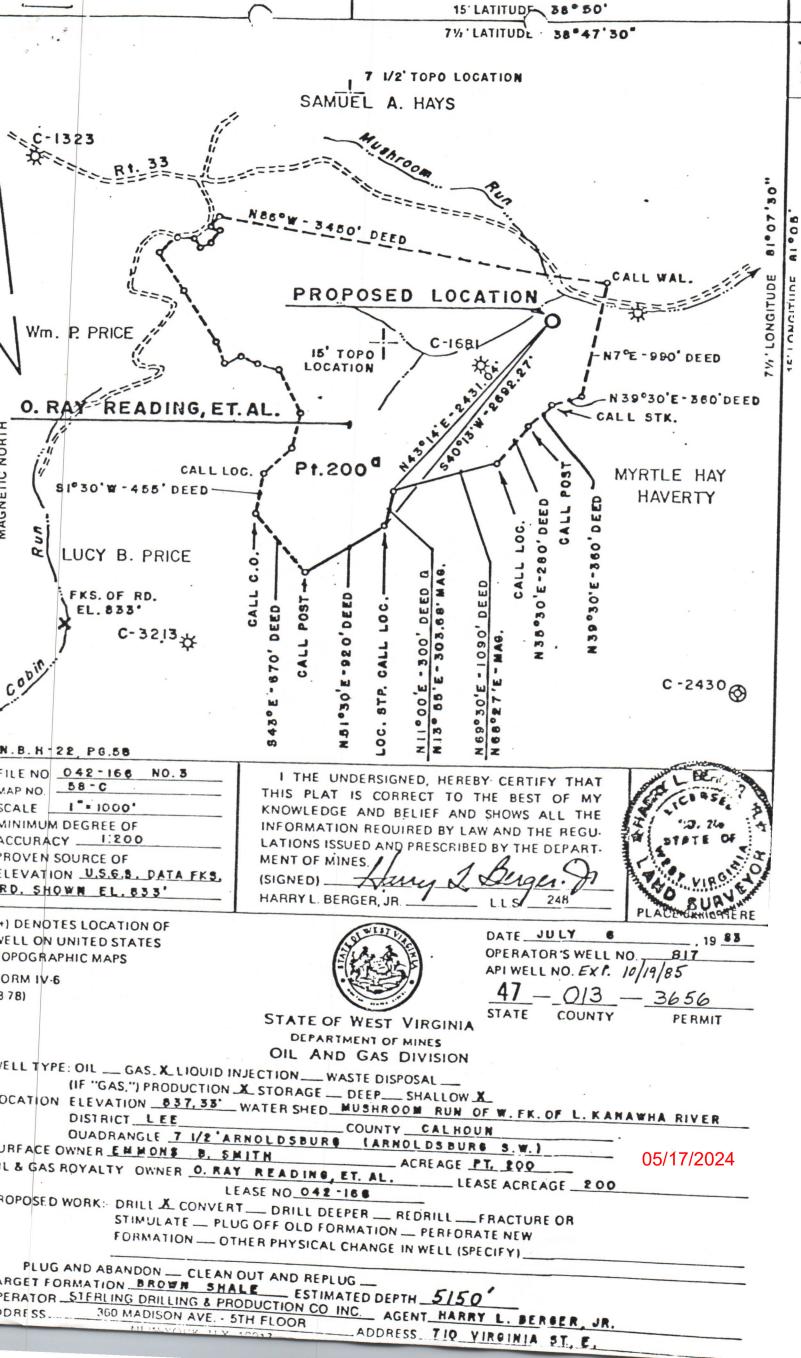
| FORM IV-48WC | · | OF LIFET HEREALD | |
|--|-----------------------|--|---|
| (12-76) | | OF WEST VIRGINIA | Tate April 4, 1984 |
| | | ES, OIL AND GAS DIVISION | Reading #817 |
| | | | All kell |
| | STATE APPLICATIO | N FOR WELL CLASSIFICATION | No 17 - 013 - 3656 State County Permit |
| | | | Previous File No. |
| WELL OPERATOR Sterling [| | uction | (If Applicable) |
| ADDRESS 710 Virginia S | it., East Co | | Harry L. Berger, Jr. |
| Charleston, WV | 25301 | ADDRESS Sterling D | Orilling & Production Co., Inc |
| Gas Purchase Contract No. | | mode building, | Charleston, WV. 25301 |
| Heter Chart Code | - | (Month, day and ye | |
| Name of First Purchaser | | | ar) |
| | | UNDEDICATED | |
| | (Street | or P. O. Box) | |
| FFRE C | ity) | (State) | |
| | | FERC Buyer Code | Code |
| TYPE OF DETERMINATION BEING | SOUGHT: | | • |
| (1) Initial determination that recovery technology | ion (See FERC Form 1; | 21.) 5001100 01 107 | |
| | | | Calegory Code |
| (3) Determination of a | seasonally affected | well. | |
| | | Harry L. Berger, | r. Agent |
| | | Name (Print) | Title |
| | | Signature | 194 |
| | | Sterling Drilling & | Production Co. Inc. |
| | | nicade bidg. [har] | eston LIV 25203 |
| | | State | (Zip Code) |
| | | (304 342-0121 | , |
| (Certificate of Proof of Serv | ice to Punct | Code Phone Number | |
| | to Idichaser) | | |
| | 4 | | |
| | | | |
| 4 | | | |
| (All of the above to be | | | |
| (All of the above to be complet | ed by the Operator/A | Applicant) | |
| (To be completed by Jurisdiction purchaser, if known). The Department of the control of the con | nal Agency France | | 777777777 |
| The Bear | Execute | d copy to be returned to Op | erator/Applicant |
| | | | |
| under Section 108 of (NGPA): | that increased proc | under the Natural (| Gas Policy Age of described |
| the ass. All interested parties | are hereby | on of a seasonally affected | well under cry technology |
| be heard, there will be a public | vision in Charleston | that on the day of | under Section 198 of (NG:: |
| be heard, there will be a public This Application is as | signed Fig. | d, or if objection is filed | thereafter as it may |
| Initial review of ins | | | |
| Initial review of information and any additional evidence will as the matter may be heard. Unless objections are to the matter will not be heard. | med under the Natura | dicates the well is. i | S nor |
| meald. | THE CIME | appointed for a public b | review of this suidan |
| ays. a hearing will not be held | imely filed or a rec | uest for | ing or as soon thereafter |
| ays. a hearing will not be held determination. | on ex parte me | uest for a hearing is made otion of the department and | within fifteen (15) |
| | | | Teel Will |
| 45.5 | | VIRGINIA DEPARTMENT OF MIN | EES |
| APR 1 8 1984 | | | |
| Le received | | Sirec | 05/17/2024 |
| risdictional Agency | | Ву | MILE |
| | | Title | |

| APPLICATION FOR | DETERMINA | MA RAY LOG | E MAVIMINA | T AT TTO |
|-----------------|------------|------------|------------|----------|
| PRICE UNI | ER THE NAT | URAL GAS P | OLICY ACT | |

| Oper | cator: Sterling Dulling & Production Co. | Inc. Agent; H.L. Berger |
|--------|--|--|
| Туре | Determination being sough | t - 107 (Devonian Shale) |
| API | Well No.: 47-013-3656 | Well Name: Reading # 817 |
| West | Virginia Office of Oil and rences: SJA File No. | d Gas County: Calloun |
| V | ol Page Line | |
| I. | (c) intervals with | as been marked with the (a) Shale Base representing 0.7 x (Shale Base Line), a Gamma Ray units less than 0.7 x (Shale to log is included with this analysis. |
| II. | Gamma Ray elevation indic | es: |
| • | A. Shale Base Lin | e (API Units) |
| | GR Value a Remarks: | t Base Line = 160 * API Units |
| | AP | SCALE = 0 = 200 UNITS |
| | | |
| | B. Gamma Ray Log V | Value at 0.7 x Value at Base Line |
| | 1. GR Value = | //60 * API Units n: 0.7 (GR Value at Base Line) 0.7 (/60 *) = //2 API Units |
| III. | Intervals with GR index le | ess than 0.7 x (Value at Base Line): |
| | Interval | Thickness Feet of less than* |
| , | From** To*** | of Interval 0.7 (Shale Base Line) Feet Feet |
| | 2271 5160 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Total Devonial Interval | 2889' |
| | Less Than 0.7 (Shale Base) | 34' |
| % Less | Than 0.7 (Shale Base Line) | $= 0.01 \times 100 = 1.18 \%$ |
| | • | 05/17/2024 |
| *Mark | ked on log included with an | 05/17/2024 |

**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.



013-3656

816

No.

173703

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

| , | | | | (See | Reverse) | |
|-------------------------|-----------------------------|-------------------|---------------------|-------------------------------------|--|--------|
| | SEN | E | | MONS | B. SMIT | H |
| | E | T | 3 | | 500 | |
| | P.O | N.ST | CLL | AND ZIP CO | 6, W.V. 2 | 8234 |
| | POS | STAC | 3E | | | \$ |
| | S | CE | RTIF | IED FEE | | ¢ |
| | FEE | | SF | ECIAL DELI | VERY | ¢ |
| | OR | | RE | STRICTED | DEUVERY | ¢ |
| | STERF | RVICES | RVICE | SHOW TO W | | ¢ |
| | CONSULT POSTMASTER FOR FEES | OPTIONAL SERVICES | URN RECEIPT SERVICE | SHOW TO W AND ADDRES DELIVERY | | ¢ |
| | SULTPO | OPTIO | N REC | | HOM AND DATE WITH RESTRICTED | ¢ |
| | CONS | | RETUR | ADDRESS OF | HOM, DATE AND F DELIVERY WITH DELIVERY | ¢ |
| 9 | TO | TAL | POS | TAGE AND | FEES | \$2,40 |
| 197 | PO | STM | ARK | OR DATE | ON | |
| PS Form 3800, Apr. 1976 | | 1 | CHAR | AU | 1 |) |
| PS Form | | 1 | 0 | 19 | U II | |

DEPT GAS DIVISION

OF MINISON



| DATE | 7-11-83 | |
|----------|---------|-------|
| WELL NO. | Reading | # 817 |

State of Mest Mirginia API NO. 47 -013 -3656

Bepartment of Mines

Gil und Cas Bivision

CONSTRUCTION AND RECLAMATION PLAN

| Prod | Co WELL OPERATOR Sterling Drilling & Pr |
|--|---|
| COMPANY NAME Sterling Drilling & Frou. | 0017 Address c/o H.L.Berger - Chars., WY |
| | Telephone (304) 342-0121 |
| Telephone (212) 949-9100 | SOIL CONS. DISTRICT Little Language SCD |
| LANDOWNER Emmons B. Smith | ing Drilling & Prod. CoH.L.Bergert) |
| | |
| | le Kanawha SD. All corrections |
| and additions become a part of this plan: | 7-//-83 (Date) |
| | aratt Newton |
| | (SCD Agent) |
| ACCESS ROAD | LOCATION |
| | Structure Nin Ditch (1) |
| Structure Culvert (A) | Structure Diversion Ditch (1) |
| Spacing . Six 32* | Material Earthen - |
| Page Ref. Manual 2-6 | Page Ref. Manual 2-10 |
| Fage 121. | EUVED |
| Structure Drainage Ditches (B) | Structure Rip-Rap (2) |
| Spacing Road side | 0 1983 Material Rock |
| Page Ref. Manual 2-10 DEPT. D Structure Cross Ditches (C) | S DIVISION Page Ref. Manual |
| Page Rel. Partual E-70 DEPT. | F MINITE |
| Structure Cross Ditches (C) | Structure(3) |
| Spacing 131' said for 5.7's grade | Material |
| Spacing 135' spacing for 5.7's grade | Page Ref. Manual |
| Page Ref. Manual 2-4 | |
| All structures should be inspected regrecommercial timber is to be cut and stack | ularly and repaired if necessary. All ed and all brush and small timber to be |
| cut and removed from the site before dir | t work begins. |
| | |
| REVEG | ETATION |
| Treatment Area I | Treatment Area II |
| Lime 2 Tons/acre | Lime 2 Tons/acre |
| or correct to pH 6.5 | or correct to pH 6.5 |
| Fertilizer 600 lbs/acre | Fertilizer 600 lbs/acre (10-20-20 or equivalent) |
| (10-20-20 or equivalent) Mulch Hay 2 Tons/acre | Mulch Hay 2 Tons/acre |
| Mulch Hay 2 Tons/acre Seed* 7.31 30 lbs/acre | |
| 11-1-1- | Seed* Ky-3/ 30 lbs/acre Onhardonss 10 lbs/acre |
| Cochardorass /0 IDS/acre | Ladine Clover 4 lbs/acre |
| Ladino Closer | 05/17/2024 |
| *Inoculate all legumes such as vetch, tre Inoculate with 3X recommended amount. | efoil and clovers with the proper bacterium. Moore's Well Services, Inc |
| | AN PREPARED BY Colord X. Compbell |
| | V |
| NOTES: Please request landowners' \ cooperation to protect new | ADDRESS Route 1 Box 30 |
| seedling for one growing season. | Duck, WV 25063 |
| Attach separate sheets as necessary for comments. | PHONE NO. (304) 364-5780 |
| | |

