**FILE COPY** 



| 1) | Date:_ | November | 3 | , 19_ 83 |
|----|--------|----------|---|----------|
| -  |        |          |   |          |

2) Operator's Well No.\_\_\_

47 - 013 - 3682 3) API Well No.

County Permit

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

|  |  |  |  | AP   | PLICATI                             | ON FOR A WELL   | L WORK PERMIT                                     |   |   |  |  |
|--|--|--|--|--|-------------------------------------|---|---|---|---|--|--|
| A WELLTY   | DES A. C   | SIL TO SELECT                                      |  | X  | -01                                 | nex an olem   |   | BMOIT AND BOOK                                | Necessary   |  |  |
| 4) WELLTY  | PE: A U  | f "Cos"  | Productio  | as   | X                                   | / Underground st                                      | torage  | / Door  | _/ ShallowX/)   |  |  |
|  | B (I   | I Gas ,  | 1089.  | 92'  |                                     | Watershed:  | Cabin Run   | _/ Deep                                       | _/ Shallow/)  |  |  |
| 5) LOCATIO   | 5) LOCATION: Elevation: 1089.92 Lee  |  |  |  |                                     | County: Ca  | Thoun   | Ovedsonele                                    | 7.5' Arnoldsburg  |  |  |
| C WELL OR  |  |  |  |  | r & Pr                              |   |   | Quadrangle:                                   | v I Rerger .lr  |  |  |
|  | well operator <u>Sterling Drilling &amp; Property</u> 360 Madison Ave. Fifth F |  |  |  |                                     | loor  |   | 710 Virginia                                  |   |  |  |
| Address  | New York, New York 1001  |  |  |  |                                     |   |   | Charleston,                                   |   |  |  |
|  | OIL & GAS INSPECTOR TO BE NOTIFIED   |  |  |  |                                     |   |   |   | W.V. 25501  |  |  |
| The state of the s | Dec Mass   |  |  |  |                                     |   | 9) DRILLING CONTRACTOR: Name UNKNOWN AT THSI TIME |   |   |  |  |
|  | D+ 1 D E   |  |  |  |                                     | <del></del>   |   | NOWIN AT THST                                 | TIME  |  |  |
| Address  |  |  | e, W.V   | 252  | 7/1                                 |   | Address   |   |   |  |  |
|  |  |  |  | 11   |                                     |   |   |   | MECEN   |  |  |
| 10) PROPOSE  | D WELL   | WORK:  | Drill  |  | / Drill                             |   | / Redrill   |   | ANIE GROOM  |  |  |
|  |  |  |  |  |                                     |   | te new formation_                                 |   | 1   |  |  |
|  |  |  | The state of the s |  |                                     |   |   |   | DEC 2 - 198   |  |  |
|  |  |  |  |  |                                     | LE  |   |   | -111  |  |  |
| 12) Estima   |  |  |  |  |                                     |   |   |   | OIL & GAS DIVI  |  |  |
| 13) Appro  |  |  |  |  |                                     |   |   | feet.   | DEPT. OF M  |  |  |
| 14) Appro  |  |  |  |  | J                                   | Is coa  | l being mined in the a                            | rea? Yes                                      | DE No. OI X   |  |  |
| 15) CASING A   | ND TUBI  |  |  |  |                                     |   |   |   |   |  |  |
| CASING OR<br>TUBING TYPE   |  | SPEC   | Weight   | S  |                                     | FOOTAGE IN  | TERVALS   | CEMENT FILL-UP OR SACKS                       | PACKERS   |  |  |
| 1020   | Size   | Grade  | per ft.  | New  | Used                                | For drilling  | Left in well                                      | (Cubic feet)                                  |   |  |  |
| Conductor  |  |  |  |  |                                     |   |   |   | Kinds   |  |  |
| Fresh water  | 9 5/8  | LS   | 33#  | X  |                                     | 300 350   | -300 350  | To Surface                                    | by rule 15.0  |  |  |
| Coal   |  | 100  |  |  |                                     |   |   |   | Sizes   |  |  |
| Intermediate   | 7"   | J-55   |  | X  |                                     | 2550'   | 2550'   | 100 sks                                       |   |  |  |
| Production   | 4 1/2  | ERW  | 10.5#  | X  |                                     |   | 5325'   | 250 sks                                       | Depths set  |  |  |
| Tubing   |  |  |  |  |                                     | A TNO HSD 3   | 000000  | or as i                                       | reg. by rule i  |  |  |
| Liners   |  |  |  |  |                                     |   |   |   | Perforations:   |  |  |
|  |  | 20/0i305   | hari nu  | worls.   | vas la                              | n oppurrences a                                       | intish in astab                                   | fit broom or si o                             | Top Bottom  |  |  |
|  |  |  |  |  |                                     |   |   |   |   |  |  |
| - 40   | ateG 2   |  |  |  |                                     |   | 0360  |   |   |  |  |
|  |  |  |  |  |                                     |   |   |   |   |  |  |
|  |  |  |  | COROL  | Secreta                             | y with the  |   |   | basison gaireath  |  |  |
|  |  |  |  |  |                                     | FFICE USE O   |   |   |   |  |  |
|  |  |  |  |  | D                                   | RILLING PER   | RMIT  |   | New ballous view !  |  |  |
|  |  | 47-013   | 3-3682   |  |                                     |   |   | Dece  |   |  |  |
| Dosmit number  | Permit number 47-013-3682 December 19, 19 83                                   |  |  |  |                                     |   |   |   |   |  |  |
| Permit number_   |  |  | or and wel   | 1 location   | shown b                             | elow is evidence of                                   | f narmission granted                              |   |   |  |  |
|  | ring the w   | all operato  |  |  | 1 SHOWII U                          | roverse hereof Not                                    | ification must be giv                             | en to the District Oil                        | and Cas Inspector (Defe   |  |  |
| This permit cove   | ring the we  | ell operato  | contained  | herein an  | d on the                            | everse nereor. Not                                    | mication must be giv                              |   | l and Gas Inspector, there  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the  | ect to the co  | onditions of ro                                    | contained ads, locati  | herein an  | pits for an                         | y permitted work.                                     | In addition, the well                             | l operator or his con                         | tractor shall notify the pro  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the  | ect to the co  | onditions of ro                                    | contained ads, locati  | herein an  | pits for an                         | ny permitted work. rk has commenced                   | In addition, the well                             | l operator or his con                         | tractor shall notify the pro  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the<br>district oil and g  | he construction as inspector   | etion of ro  | contained<br>ads, locati<br>s before a   | herein and<br>ons and<br>ctual peri  | pits for an<br>mitted wo            | ny permitted work. rk has commenced                   | In addition, the well.)                           | l operator or his con                         | tractor shall notify the pro  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the<br>district oil and g  | he construction as inspector ork is as de                                      | etion of ro<br>or 24 hours                         | contained ads, locati s before ac the Notic  | herein and ons and ctual period of the control of t | pits for an mitted work polication, | ny permitted work. rk has commenced                   | In addition, the well.)                           | l operator or his con                         | tractor shall notify the pro  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the<br>district oil and g  | he construction as inspector ork is as de                                      | etion of ro<br>or 24 hours                         | contained<br>ads, locati<br>s before a   | herein and ons and ctual period of the control of t | pits for an mitted work polication, | y permitted work. rk has commenced plat, and reclamat | In addition, the well.) tion plan, subject to     | l operator or his con<br>any modifications as | tractor shall notify the pro  |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the<br>district oil and g<br>The permitted we<br>reverse hereof.   | he construction as inspector ork is as de                                      | etion of ro<br>or 24 hours                         | contained ads, locati s before ac the Notic  | herein and ons and ctual period of the control of t | pits for an mitted work polication, | y permitted work. rk has commenced plat, and reclamat | In addition, the well.) tion plan, subject to     | l operator or his con<br>any modifications as | tractor shall notify the pro<br>nd conditions specified on<br>prosecuted with due diligen |  |  |
| This permit cove<br>quirements subje<br>No. 8) Prior to the<br>district oil and g<br>The permitted we<br>reverse hereof.   | he construction as inspector ork is as de                                      | ection of ro<br>r 24 hours<br>escribed in<br>Decem | contained ads, locati s before ac the Notice ber 19  | herein and ons and ctual period and Ar 1985  | pits for an mitted wor              | y permitted work. rk has commenced plat, and reclamat | In addition, the well.) tion plan, subject to     | l operator or his con<br>any modifications as | tractor shall notify the proposed on prosecuted with due diligen                          |  |  |
| This permit cove quirements subjet No. 8) Prior to the district oil and go The permitted we reverse hereof.  Permit expires  | he construction as inspector ork is as de                                      | ection of ro<br>r 24 hours<br>escribed in<br>Decem | contained ads, locati s before ac the Notic  | herein and ons and ctual period of the control of t | pits for an mitted wor              | rk has commenced plat, and reclamate unless well v    | In addition, the well.) tion plan, subject to     | l operator or his con<br>any modifications an | nd conditions specified on prosecuted with due diligen                                    |  |  |

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

Administrator, Office of Oil and Gas

Reason:





## STATE OF WEST VIRGINIA OFFICE USE ONLY PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK 81 WELL OPERATOR 2 10) PROPOSED WELL WORK: Drill A ... Doll deeper III GEOLOGICAL DAKCET PORMATION, BROWN SELL OIL & GAS DIVISION (13) Approximate trata deriths: Fresh, \_\_ DEPT. OF MINE OFFICE USE ONLY This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections. Date Date(s) Follow-up inspection(s) Application received DRIME PERMIT Well work started Completion of the drilling This permit entering the well operator and well location shown below is evidence or permission granted to drill in accordance with the permann (8200000) No. 81 I for a the common for all reads, herefores are, put has any printed work in addition, the well operated Well Record received The permitted work is as sescribed in the Notice and dipplication, plan, and reclamming plan, subject to any anolitications and Reclamation completed OTHER INSPECTIONS Reason:

| FORM  | IV-2 | (A) |
|-------|------|-----|
| Obver | se   |     |
| [8-83 | ]    |     |

1) Date: November 3 \_\_\_\_,19 83

2) Operator's

859 Well No.

3) API Well No. 47 - 0/3 - 3682 State County Permit

#### STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

|  | NOTICE OF APPLICATION FO   | OR A WELL  | WORK PERMIT  |   |
|--|--|--|--|---|
| 4) SURFACE   | OWNER(S) OF RECORD TO BE SERVED  |  | COAL OPERATOR  | UNOPERATED  |
|  | Doris Lee Price  | 3(1)   | Address  |   |
|  | ress Box 160 - A   |  |  | II  |
| (ii) Name  | Otto Rt. Spencer, W.V. 25276   | 5(ii)  | COAL OWNER(S) WI   | TH DECLARATION ON RECO  |
| Addr   |  |  | Address  |   |
|  |  |  |  |   |
| (iii) Name   |  |  | Name   |   |
| Addr   | ess  |  | Address  |   |
|  |  | E (222)  | CO11   |   |
|  |  | 5(111)   | COAL LESSEE WITH   | DECLARATION ON RECORD   |
|  |  |  | NameAddress  |   |
|  |  |  | Address  |   |
|  | TO THE DIPLOMA IN THE  |  |  |   |
|  | TO THE PERSON(S) NAMED ABOVE: You should ha  | ve received thi  | is Form and the following  | documents:  |
|  | <ol> <li>The Application for a Well Work Pen to be plugged, which sets out the p and describes the well and its locacementing program;</li> <li>The plat (surveyor's map) showing the Construction and Reclamation Play plug a well), which sets out the play reclamation for the site and access</li> </ol>                       | tion and, if ap  | on on Form IV-6; and   | work,<br>using and  |
|  | The state of the state and access  | road.  |  |   |
|  | THE REASON YOU RECEIVED THESE DOCUMENTS WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. ACTION AT ALL.  | THE REVERSE S HOWEVER, YOU                                       | VE RIGHTS REGARDING THE A<br>IDE OF THE COPY OF THE AP<br>ARE NOT REQUIRED TO TAKE .   | PLICATION   |
|  | Take notice that under Chapter 22 of the erator proposes to file or has filed this Nov   | West Virginia  | Code the undersity of  | DEC 2 - 1983  |
|  | erator proposes to file or has filed this Not for a Well Work Permit with the Administrator Department of Mines, with respect to a well a and depicted on attached Form IV-6. Copies of Construction and Reclamation Plan have been much by hand to the person(s) named above (or by perfore the day of mailing or delivery to the | of the Office at the location of this Notice, mailed by register | of Oil and Gas, West Virg<br>described on attached App<br>the Application, the plan  | cuments OIL & GAS DIVISION ginia plication PT. of MINE t, and the |
|  | 6) EXTRACTION RIGHTS   |  |  |   |
|  | Check and provide one of the following:  Included is the lease or leases or other I hold the right to extract oil or go  | r continuing co  | ntract or contracts by wh  | ich   |
|  | The requirement of Code 22-4-1-(c)(1) the  | rrough (4). (Se  | e reverse side for specif  | ics.)   |
|  | 7) ROYALTY PROVISIONS Is the right to extract, produce or market or other contract or contracts providing for for compensation to the owner of the oil or to the volume of oil or gas so extracted, p  | I TIAL WELL TO   | yaity or any similar provi   | ases<br>ision<br>lated  |
| 0  | If the answer above is No, nothing you may use Affidavit Form IV-60.   | additional is n  | needed. If the answer is y   | res,  |
|  | See the reverse side for line item ins<br>the required copies of the Notice and Reclamation Plan.  | tructions, and<br>Application, pl                                | for instructions concerni<br>at, and Construction and  | ng  |
| The truth  | of the information on the  | WELL   |  |   |
| Notice and   | d Application is verified  |  | OR Sterling Dril   | ling & Prod. Co., Inc.  |
| and sworn  | to and the Notice is   |  | 1 / Oct   Tring Bill   | 1111g g 110d. co., 111c.  |
| signed on  | behalf of the Well Operator  | By /   | Janes V  | Berger  |
|  | nty and State by   |  | Designated Agent   |   |
| this 3 day   | Harry L. Berger, Jr.  y of November , 1983.  | Addr   | ess 710 Virginia   |   |
| My earn  | of November, 1983.  mission expires May 10, 1989.  | m-1-   | Charleston,  | W.V 25301   |
| Lav  | ril M. Sillespie   | Jete   | phone 342 - 0121   |   |
| Notary<br>State  | Public, Kanawha County, of West Virginia   |  |  | 05/17/2024  |
| To the term of the |  | registro.  | DIRECT TO THE PARTY OF THE PART |   |

#### 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 § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees 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, 22-4-2, 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 oath required to make the verification on the obverse side of this Notice, I depose and say that  $\bar{I}$  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 |
|----------------------------|-----------------------|---------|-----------|
| Vernon P. Boone            | Sterling Drilling &   |         |           |
| Box 211                    | Prod. Co., Inc.       | 1/8     | 079/498   |
| Florence, Arizona<br>85232 |                       |         |           |

Geraldine McGinty



DATE 11-28.83

(304) 364-5780

PHONE NO.

necessary for comments.

WELL NO. Boone -368 API NO. 47 -013

State of Mest Buginia Bepartment of Mines

Bil und Gas Bivision

| CONSTRUCTIO   | IN AND REC  | AMATION PLAN                                 |  |              |
|---|-------------|--|--|--------------|
| COPPANY NAME Sterling Drilling & Pr   | w oo boa    | ELL OPERAT                                   | OR Sterling Drillin                          | ig &         |
| Address 360 Madison Ave NY, N   | y 10017     | Address c/c                                  | H.L.Berger - Chars                           | .,           |
| Telephone (212) 949-9100  |             | Telephone                                    | (304) 342-0121                               |              |
|   |             |  | DISTRICT Little Kansul                       | ha s         |
| Revegetation to be carried out by S   | terling     |  |  |              |
| This plan has been reviewed by 1  | 44/2        | Kanzula                                      | son. All correction                          | ons          |
| This plan has been reviewed by Z.   | n. /        | 1-21-87                                      |  |              |
| and additions become a part of this pla   |             | (Date)                                       | . 0 /  |              |
|   | far         | (SOD Agent                                   |  |              |
|   |             | (SCD Agent                                   |  |              |
| . ACCESS ROAD   |             | <u>.                                    </u> | LOCATION                                     |              |
| Structure Columnia  | (A)         | Structure_                                   | Diversion Ditch                              |              |
| Spacing . Siio 12"  |             | Material_                                    | Earthen                                      |              |
| Page Ref. Manual 2.8  |             | Page Ref. M                                  | anual 2-12                                   | <del>-</del> |
| Structure Drainage Ditches  | (B)         | Structure_                                   | Rip-Rap                                      |              |
| Spacing Pondeide  |             | Material                                     | Rock   |              |
| Page Ref. Manual 2.12   |             | Page Ref. M                                  | anual 2-9                                    |              |
| Structure Cross Ditches   | (C)         | Structure_                                   |  |              |
| Spacing 150' For 3-5% grades  |             | Material                                     | *  |              |
| Page Ref. Manual 2-4  |             | Page Ref. Ma                                 | anual  |              |
| All structures should be inspected commercial timber is to be cut and scut and removed from the site before | tacked and  | all brush w                                  | l if necessary. All<br>nd small timber to be |              |
| Ri  | EVEGETATION | 1  |  |              |
| Treatment Area I  |             | Tr   | eatment Area II                              |              |
| Line 2 Tons/acre  |             | Lime   | 2 Tons/a                                     | acre         |
| or correct to pH 6.5  |             |  | t to pH 6.5                                  |              |
| Fertilizer 600 lbs/acre (10-20-20 or equivalent)  |             |  | 600 lbs/ac<br>0-20-20 or equivalent)         | cre          |
| Mulch Hay 2 Tons/acre   |             | Mulch Hay                                    | 2 Tons/a                                     | acre         |
|   |             | Seed* Ky-S!                                  | 4. lbs/ac                                    | cre          |
| Seed* Ky-31. 40 lbs/acre  Ladino Clouer 4 lbs/acre  |             | 3  | Clover 4 lbs/ac                              | cre          |
| lbs/acre  |             |  | lbs/ac                                       | re           |
| *Inoculate all legumes such as vetch,   | trefoil a   | nd clovers w                                 | 05/17/2024 ith the proper bacterium          | n            |
| Inoculate with 3% recommended amount.   |             | 110  | ore's Well Services,                         | , II         |
|   | PLAN PREP   | AFED BY                                      | End X. Campbell                              |              |
| NOTES: Please request landowners'   | A           | DDRESS_ Rou                                  | te 1 Box 30                                  |              |
| cooperation to protect new seedling for one growing season.   |             | _ Duc}                                       | c, WV 25063                                  |              |
| Attach separate sheets as   |             | - 1201                                       | 1 2/1 1000                                   |              |

IV-9 REVERSE (REV 8-81) INVOLVED TOTOGRAPHIC MAP

QUADRANGLE 72 Arnolds burg

Arnoldsburg SW

Well Site
Access Road

2. Pill — Area J

800' of 4 10 5 2 garde

05/17/2024

IV-35 (Rev 8-81)



OIL & GAS DIVISION
DEPT. OF MINES



## State of West Wirginia

Bepartment of Mines Gil und Gas Bivision

| Date 6/19           | 9/84           |
|---------------------|----------------|
| Operator's Well No. | 859            |
| Farm Verdon         | P. Boone, etal |
| API No. 47          | - 013 - 3682   |

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

|   | Cabin Run  | Spiriture or particular or                                    |                       | A Segretar and the sections  |
|---|--|---|-----------------------|--|
| District: Lee County Calho  | un   | Quadrangle  | Arnoldsl              | ourg 7½'   |
|   |  |   |                       |  |
|   |  |   | 70.1.21               | -5   |
| COMPANY Sterling Drilling & Production Co. Inc.   |  |   |                       | 10   |
| ADDRESS 710 Virginia St., E, Charleston, WV   | Casing   | Used in   | Left                  | Cement<br>fill up  |
| DESIGNATED AGENT Harry L. Berger, Jr. 25301   | Tubing   | Drilling  | in Well               | Cu. ft.  |
| ADDRESS 710 Va. St., E. Charleston, WV 25301  | Size   |   |                       |  |
| SURFACE OWNER Doris Lee Price Carper, etal  | 20-16<br>Cond.   |   |                       |  |
| ADDRESS Box 160A, Otto Rt, Spencer, WV 25276  | 13-10"   |   |                       | A THE STATE OF THE |
| MINERAL RIGHTS OWNER Verdon P. Boone, etal  | 9 5/8 I  | 346'  | 346'                  | 140 sx   |
| ADDRESS Box 211, Florence, AZ 85232   | 8 5/8  |   |                       |  |
| OIL AND GAS INSPECTOR FOR THIS WORK Deo   | 7 4  | 2567'   | 2567'                 | 200 sx   |
| Mace ADDRESS Rt 1, Box 5, Sandridge, WV 25274   | 5 1/2  | 2007  | 2007                  | 200 34   |
| PERMIT ISSUED 12/19/83 WV 252/4   | 4 1/2 Q  |   | 5300'                 | 280 sx   |
| DRILLING COMMENCED 1/17/84  | 3  |   | 3300                  | 200 31   |
| DRILLING COMPLETED 1/23/84  | 2  |   |                       |  |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON  |  |   |                       |  |
| CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED   | Liners   |   |                       |  |
| CN  | usar   |   |                       |  |
| GEOLOGICAL TARGET FORMATION Devonian Shale  |  | Dep   | th 5325               | feet   |
| Depth of completed well 5325 feet   | Rotary X   | / Cabl  |                       |  |
| Water strata depth: Fresh 92', 245' feet;   |  | -   | -                     |  |
| Coal gorm donthan   | Is coal  | being min   | ed in the             | area? NO   |
| Coal seam depths:   |  |   |                       |  |
|   |  |   |                       |  |
| OPEN FLOW DATA  |  |   |                       |  |
| OPEN FLOW DATA  Producing formation Devonian Shale  | 1 1950   |   |                       |  |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  | Oil: Ini   | tial open   | flow                  | - Bb1/d  |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d   | Oil: Ini   | tial open<br>al open f  | flow                  | - Bbl/d  |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init   | Oil: Ini<br>Fir<br>ial and fi                                | tial open<br>al open f<br>nal tests                           | flow<br>low           | - Bb1/d<br>Bb1/d   |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init  Static rock pressure 680 psig (surface)  | Oil: Ini Fir ial and fire measurem                           | tial open<br>al open f<br>nal tests                           | flow<br>low           | - Bb1/d<br>Bb1/d   |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init  Static rock pressure 680 psig(surfact  (If applicable due to multiple completion)                              | Oil: Ini Fin Fin Fial and fi Exe measurem                    | tial open<br>al open f<br>nal tests                           | flow<br>low           | Bb1/d  |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init  Static rock pressure 680 psig(surface)  (If applicable due to multiple completion)  Second producing formation | Oil: Ini Fin Fin Fial and fi Exe measurem Fay Pay            | tial open<br>al open f<br>nal tests<br>ment) afte<br>zone dep | flow low65/47 r96_hou | Bbl/d<br>Bbl/d<br>2024<br>ars shut in  |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init  Static rock pressure 680 psig(surface)  (If applicable due to multiple completion)                             | Oil: Ini Fin Fin Fial and fi Exe measurem Fay Pay            | tial open<br>al open f<br>nal tests<br>ment) afte<br>zone dep | flow low65/47 r96_hou | - Bb1/d<br>Bb1/d   |
| OPEN FLOW DATA  Producing formation Devonian Shale  Gas: Initial open flow 0 Mcf/d  Final open flow 332 Mcf/d  Time of open flow between init  Static rock pressure 680 psig(surface)  (If applicable due to multiple completion)  Second producing formation | Oil: Ini  Fin  Fin  ial and fin  e measurem )  Pay  Oil: Ini | tial open<br>al open f<br>nal tests<br>ment) afte<br>zone dep | flowlow65/47 r96_hou  | Bbl/d<br>Bbl/d<br>2024<br>ars shut in  |

FU. 1 IV-35 (REVERSE)

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

Perforations:

Stage 1: Stage 2: Stage 3: 20 holes 4554' - 5254' 26 holes 3596' - 4414' 26 holes 2740' - 3425'

Treatment:

800 gal 15% acid, 1664 MSCF  $\rm N_2$ , BD 3320# 1000 gal 15% acid, 1364 MSCF  $\rm N_2$ , BD 2780# 1000 gal 15% acid, 1584 MSCF  $\rm N_2$ , BD 2280# Stage 1: Stage 2: Stage 3:

WELL LOG

| FORMATION COLOR HARD OR SOFT   | TOP FEET  | BOTTOM FEET  | REMARKS Including indication of all free and salt water, coal, oil and ga |
|--|---|--|---|
| Sandstone and Shale Salt Shale Sand Sandy Shale Maxon Shale Little Lime and Sand Pencil Cave Big Lime Big Injun Siltstone and Sahle Sunbury Shale Berea Sandy Siltstone and Shale Gordon Silty Shale Grey Sandy Siltstone Grey Shale Grey Coarse Siltstone Grey Shale Grey Shale | 0<br>1100<br>1290<br>1320<br>1355<br>1660<br>1830<br>1877<br>1960<br>1965<br>2111<br>2130<br>2443<br>2467<br>2470<br>2780<br>2809<br>4805<br>4838<br>4978<br>5051 | 1100<br>1290<br>1320<br>1355<br>1660<br>1830<br>1877<br>1960<br>1965<br>2111<br>2130<br>2443<br>2467<br>2470<br>2780<br>2809<br>4805<br>4838<br>4978<br>5051<br>5325 | All measurements 10' KB   |
|  |   |  |   |
|  | in this Pse<br>old in the   |  |   |

(Attach separate sheets as necessary)

| Sterling Drilling and Production Co., Inc. Well Operator |
|--|
|  |
| 05/17/2024   |
| By: Harry X. Begger H                                    |
| Date: 16-19-84   |

Regulation 2.02(i) provides as follows:

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

# DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

## DEPT. OF MINES

## INSPECTOR'S WELL REPORT

| Permit No. 13 -3682                     |                      |   | Oil or Gas Well  |                |  |  |
|---|----------------------|---|--|----------------|--|--|
| Company Sterling                        | CASING AND<br>TUBING | USED IN<br>DRILLING                         | LEFT IN WELL   | PACKERS        |  |  |
| Address                                 | Size                 |   |  |                |  |  |
| Farm Doone                              | 16                   | 2/ 65 /2                                    |  | Kind of Packer |  |  |
| Tell No. 859                            | 13                   | Par. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20 |  |                |  |  |
| istrict Lee County Cal                  | 10                   | 4.0   | ***  | Size of        |  |  |
| rilling commenced 1-17-84               | 65%                  |   | The second secon | Depth set      |  |  |
| rilling completedTotal depth            | 5 3/16               |   | and the second   | Septim set     |  |  |
| ate shot Depth of shot                  | 3                    |   | and the part of the second   | Perf. top      |  |  |
| itial open flow/10ths Water inInch      | Liners Used          | A.  |  | Perf. bottom   |  |  |
| en flow after tubing/10ths Merc. inInch |                      |   |  | Perf. bottom   |  |  |
| ck pressure.                            |                      |   |  | No. FTDate     |  |  |
| bbls., 1st 24 hrs.                      | NAME OF SERV         |   | 2000   |                |  |  |
| sh waterfeetfeet                        |                      |   | no serenaz novalvina   | FEETINCHES     |  |  |
| water                                   | FEET_                | INCHE                                       | SF   | EETINCHES      |  |  |
| feet                                    | FEET_                | INCHES                                      | 5F   | EETINCHES      |  |  |
| llers' Names Mut 8                      |                      |   |  |                |  |  |
| Dawell cemented 956" 1                  | -18-84               |   |  |                |  |  |
| Dawell cemented 95%" 1                  |                      |   |  |                |  |  |
|   |                      |   |  |                |  |  |

1-18.84

Was Mac 05/17/2024

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

## 23 MM TO INSPECTOR'S PLUGGING REPORT

| Permit No.          |  |         |            |                | We                                       | II No                                     |                                       |  |  |
|---------------------|--|---------|------------|----------------|--|---|---------------------------------------|--|--|
| OMPANY              | Carried Control of the Control of th | ADDRESS |            |                |  |   |                                       |  |  |
| ARM                 |  | DISTRI  | CT         | (              | COUNTY                                   |   |                                       |  |  |
| lling Material Used |  |         |            |                |  |   |                                       |  |  |
| Liner Location      |  | Amoun   | t          | Packer         | Location                                 |   |                                       |  |  |
| PLUGS USED A        | ND DEPTH PLACED  |         |            | RIPGES         | CASING AND TUBIN                         |   |                                       |  |  |
| CEMENT-THICKNESS    | WOOD-SIZE  | LEAD    | CONSTRUC   | CTION-LOCATION | RECOVERED                                | SIZE                                      | Los                                   |  |  |
|                     |  |         |            |                |  | and the second                            |                                       |  |  |
| Tagara              |  |         |            |                |  | 1   | (5000 US)                             |  |  |
|                     |  |         |            | 210            |  |   | Antighten                             |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                | 1 11                                     |   |                                       |  |  |
|                     |  |         |            |                | o'l                                      |   | may the rule                          |  |  |
| Anjourst Ser        | Carrier Calle  |         |            | - August       | De addition                              |   | · · · · · · · · · · · · · · · · · · · |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
| and a second        |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                |  |   | District St. Co.                      |  |  |
|                     | TA O   |         | Was to the |                |  |   | Action 1                              |  |  |
|                     | CORRECT CONTRACTOR CON |         |            |                |  | and the second second                     |                                       |  |  |
| llers' Names        | 333  | *       |            |                | i i                                      |   |                                       |  |  |
|                     |  |         |            |                | 10 Mg 2 Mg | 901 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Jagaren                               |  |  |
| marks:              |  |         |            |                | T  |   | - 19 cm                               |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |
|                     |  |         |            |                |  |   |                                       |  |  |

I hereby certify I visited the above well on this date.

DATE



### State of West Virginia Department of Mines Gil and Gas Division

charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT July 25, 1984



OIL & GAS DIVISION

DEPT. OF MINES

| • July 25, 19  | 84   |              |                    |            |            |      |
|--|--|--------------|--------------------|------------|------------|------|
| COMPANYSterling Drilling & Production  | PERMIT NO _  |              | 013-368            | 2          |            |      |
| 710 Virginia Street, East  | FARM & WELL  | NO           | Doris              | Lee        | Price      | #859 |
| Charleston, West Virginia 25301  | DIST. & COU  | NTY          | Lee                | /Call      | houn       |      |
|  |  | TN           | COMPLIA            | ANCE       |            |      |
| RULE DESCRIPTION   |  | YES          |                    |            | 10         |      |
| 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 Strenght 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 T.05 Identification Markings | ing Pipelines  |              |                    |            |            |      |
| I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND  | RECOMMEND THAT   | IT           | BE REL             | EASEI      | <u>)</u> : |      |
|  | SIGNED   | 26           | ma<br>18.          | co         | •          |      |
|  | DATE   | 1 -          | 18-                | 84         | 4          |      |
| Your well record was received and reclamation with Chapter 22, Article 4, Section 2, the abocoverage for the life of the well.   | requirements approve well will report and approve well a | ppro<br>emai | ved. Ir<br>n under | acc<br>bon | ordano     | ce   |

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

| 1.0 AP! well number:   | UNDER THE NATURAL GAS POLICY ACT (NGPA)                      |  |  |
|--|--|--|--|
| (If not assigned, leave blank, 14 digits.)   | 47 - 013 - 3682 -  |  |  |
| 20 Type of determination being sought:   | 1 1111 3007  |  |  |
| (Use the cooes found on the front  | 107  | ri-ne-   |  |
| of this form.)   |  |  |  |
| 3.0 Depth of the deepest completion  | Section of NGPA Category Code                                |  |  |
| location: (Only needed if sections 103   | 5005   |  |  |
| or 107 in 2.0 above.)  | 5325 feet UN 2 7 1984  | Cincia of  |  |
| 4.0 Name, address and code number of   |  |  |  |
| applicant: (35 letters per line  | Sterling Drilling and Production Cook Inc.                   |  |  |
| msximum. If code number not  | Sterring Briting and Production Cooperacas Division          | 0180   |  |
| ave lable, leave blank.)   | 710 Virginia St. East, Arcade Building                       | Seller   |  |
|  | Street   | -  |  |
|  | Charleston, WV 25301   |  |  |
| 5.0 Location of this well: [Complete (a)   | City State Zio Code  | • 5.00   |  |
| or (b).]   | 25 Code  |  |  |
| (a) For onshore wells  | Lee District   |  |  |
| Anna Strategic Control of the Contro | Field Name   | Land Special   |  |
| (35 letters meximum for field -  | Calhoun  |  |  |
|  | County State VIV   |  |  |
| (b) For OCS wells:   | State V.V  |  |  |
|  | [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]                      |  |  |
| - Marie Control of the Control of th | Area Name  |  |  |
| Block Number   | Block Number   |  |  |
|  | One of L   |  |  |
|  | Date of Lasse:   |  |  |
|  |  |  |  |
| (c) Name and identification number   | Mo. Day Yr. OCS Lasse Number                                 |  |  |
| of this well: (35 letters and digits   | * Boone #859   | -  |  |
| (Lmumixam  | Doone #059   |  |  |
| (d) if code 4 or 5 in 2.0 above, name  | THE COURSE OF STREET   |  |  |
| of the reservoir: (35 letters  |  |  |  |
| maximum.)  | he are the correct to food even and but you had be presented |  |  |
| LO (a) Name and code number of the   |  |  |  |
|  |  |  |  |
| purchaser. (35 letters and digits  |  |  |  |
| meximum. If code number not  | UNDEDICATED  |  |  |
| aveilable, leeve blank,)   | Name   | -  |  |
| (b) Date of the contract:  |  | Buver Co   |  |
|  | [20] [10] [10] [10] [10] [10] [10] [10] [1                   |  |  |
|  |  |  |  |
| (c) Estimeted total annual production !  | Mo. Dev Yr.  |  |  |
| from the weil:   | 9.9  |  |  |
| Million Called France  | Million Cubic Feet   |  |  |
|  |  |  |  |
| 12) All Deser  | (c) All Other  |  |  |
| Proper Hologener 131 Torge of the  | (a) Base Price (b) Tax Prices (Indicare (d)                  | Total of I   |  |
| Contract price:  | (+) or (-).] (b)   | and (c)  |  |
| (As of filing one Committee  |  |  |  |
| ordinal places   | 5 7 9 8  |  |  |
|  |  | •  |  |
| Maximum lawful rate:   |  | A STATE OF THE STA |  |
| (As of filing date. Complete to 3  | 5/MMBTU 5 7 9 8  | 4122   |  |
| CECIME( DISCEL.)   | <u> </u>   |  |  |
| THE PARTY OF THE P |  |  |  |
| responsible for this application:  | Harry L. Berger, Jr.   |  |  |
|  |  |  |  |
| Person responsible for this application:   | Name Designated Ac   | ent  |  |
| Agency Use Only  | Name Designated Ag   | ent  |  |
| Agency Use Only  | Harry J. Auge A Time   | ent  |  |
| Agency Use Only  | Name Jesignated Ag Title Signature  Name Designated Ag Title | ent  |  |
|  | Harry J. Auge A Time   | ent  |  |

| ARTICIP                  | ANTS: DATE: JUL 131984  DATE: DUYER-SELL   |
|--------------------------|--|
| The second second second | PURCHASER: Mommitted   |
| OTHER:                   |  |
| W                        | Department of Mines, Oil & Gas Division ELL DETERMINATION FILE NUMBER                              |
| Uso A                    | 1627 -107-013: 3682  Above File Number on all Communications  Lating to Determination of this Well |
| MISSIN<br>TEM NO         | CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING  |
| No. VI.                  | FERC -121 ltems not completed - Line No  |
| 2.                       | IV-1 Agent   |
| 3.                       | TV-2 Well Permit   |
| 4.                       | IV-6 Well Plat   |
| 5.                       | IV-35 Wall RecordDrilling Deepening  |
| 6.                       | IV-36 Gas-Dil Test: Gas Only Was Oil Produced? Ratio   |
| 7.                       | IV-39 Annual Production  |
| 8.                       | IV-40 90 day Production Days off line:   |
| 9.                       | 1V-4E Application for certification. Complete?   |
|                          | IV Form 51 - 52 - 53 - 4 - 55 - 56 - 57 - 58 Complete? Affidavit Sign                              |
|                          | Other: Survey Logs Geological Charte   |
|                          | Structure Map 1: 4000 Map Well Tabulations Gas Analyses  |
| (5)                      | Date commenced: Deepened Deepened  |
| (5)                      | Production Depth:  |
| (5)                      | Production Formation:  |
| (5)                      | Final Open Flow:   |
| (5)                      | After Frac. R. P.  |
| ( ( )                    | Other Gas Test:  |
| (17)                     | Avg. Daily Gas from Ammuel Production:   |
| (F.                      | Avg. Daily Gas from 90-day ending w/1-120 days   |
| 1.1                      | Line Pressure:   |
|                          | Cal Institute   Free Completion Faith  |
| ::-:7.                   | Times lease any niory and scate enhanced recovery beams or the                                     |
| 10-17.                   | Is affidavy signed:  |
| ines e                   | ficial well record with the Department confirm the submitted information                           |
|                          | Does computer brokret confire.   |
| + n s lie                | ter matter Charter to For Whor   |
|                          |  |

#### FORM IV-55WC une 19 1984 STATE OF WEST VIRGINIA

Date June 19, 1984

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Boone #859

API Well No.

47 - 013 - 3682 State County Permit

## WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

| NG  | PA Section 107  |
|---|---|
| Marry L. Benger, Jr.  | DESIGNATED AGENT Harry L. Berger, Jr.   |
| Modern 710 Virginia St  | ADDRESS Arcade Building; 710 Virginia St.,  |
| A 14V 27 301  | Charleston, WV 25301  |
| 1039,92   | LOCATION Elevation 1089.92  |
| WELL OPERATOR Sterling Drilling and   | Production Watershed Cabin Run  |
| ADDRESS 710 Virginia St., East  | Co., Inc. Dist. Lee County Calhoun Quad. Arnlbg   |
| Charleston, WV 25301  | Gas Purchase  |
| .GAS PURCHASER UNDEDICATED  | Contract No.  |
| ADDRESS   | Meter Chart Code  |
|   | Date of Contract  |
| * * *  Date surface drilling began:   | 1/17/84   |
| Indicate the bottom hole pressure of  | f the well and explain how this was calculated.   |
|   |   |
| Bottom Hole Pressure. PSIA Pf =   |   |
|   | $7 = 560$ . $X = \frac{1}{53.34} \times 560 = .000033$  |
| $Pf = 680 \times 2.7183 \cdot 0000335 \times$   | 3997 × .690 × 1.08 = 751 PSI  |
|   | AFFIDAVIT   |
| I have calculated the percentage of Devonian Shale as indicated by a Gardescribed in subparagraph (3)(i) or report described in subparagraph (3) of potentially disqualifying non-shapercent of the gross Devonian age in | g been first sworn according to law, state that footage of the producing interval which is not mma Ray index of less than 0.7 if a Gamma Ray log (3)(ii)(A) has been filed, or as indicated by the (ii)(B); I have demonstrated that the percentage ale footage is equal to or less than five (5) interval; and I have no knowledge of any information ich is inconsistent with a conclusion that the well swell. |
| STATE OF WEST VIRGINIA  |   |
| COUNTY OF Kanasha, TO-WIT:  |   |
|   | Notary Public in and for the state and county   |
| aforesaid, do certify that Harry L.   | . Berger, Jr. , whose name is signed to   |
| the writing above, bearing date the acknowledged the same before me, in   | 19 th day of June, 19 805/17/2024   |
| Given under my hand and official sea My term of office expires on the 2   | 11 this 19 <sup>TM</sup> day of June, 19 <u>84</u> .  7 <sup>th d</sup> day of October, 19 <u>91</u> .  |
| (NOTARIAL SEAL)   | Notary Public   |

| <b>₹</b>   |   |   |  |
|--|---|---|--|
| FORM IV-48WC [12-78]   | STATE OF W  | EST VIRGINIA                                    | Care June 19,  |
|  | DEPARTMENT OF MINES.                                | OIL AND GAS DIVISION                            | Sperator's Boone #859  |
|  |   |   | At I Well  |
|  |   |   | No. 47 - 013 - 3682  |
|  | STATE APPLICATION F                                 | OR WELL CLASSIFICATION                          | State County Permit  |
| The second second second   |   |   | Previous File No. (If Applicable)  |
| WELL OPERATOR Sterling   | Drilling and Product                                | ion   |  |
| ADDRESS 710 Virginia   |   | Inc. STGNATED AGENT                             | Harry L. Berger, Jr.   |
| Charleston, W  |   | Appress Sterling [                              | Orilling & Production Co., Inc   |
| Gas Purchase Contract No.  |   |   | , Charleston, WV. 25301  |
| Heter Chart Code   | and   | Date (Month, day and ye                         | ar)  |
| Name of First Purchaser  | UNDEDICAT   |   |  |
| The following the second secon | ONDEDIONI   |   |  |
|  | (Street or  | P. O. Box)                                      |  |
| The same   | 781   |   | p Code)  |
| FERC Seller Code 018   | 3084  | FERC Buyer Code                                 | • code)  |
| TYPE OF DETERMINATION BEIN   | SOUGHT:   |   |  |
| (1) Initial determina  | ation (See FERC Form 121                            | 107   |  |
| - Decermination the  | Increased production                                | s section of NGPA is the result of enhanced     | Category Code  |
|  | ogy.<br>a seasonally affected we                    |   |  |
|  | a seasonally affected we                            | Harry/L. Berger,                                | Jra Agent  |
|  |   | Name (Print)                                    | Aitle  |
|  |   | Signature . L                                   | Erger A  |
|  |   | Sterling Drilling &                             | Production Co., Inc.   |
|  |   | Arcade Bldg., Char                              |  |
|  |   | City State                                      | (Zip Code)   |
|  |   | (304 342-0121                                   | (LIP code)   |
|  |   | Area Phone Number                               | The Boy British  |
| (Certificate of Proof of Se  | ervice to Purchaser)                                |   |  |
|  |   |   |  |
|  |   |   |  |
|  |   |   |  |
|  |   |   |  |
|  |   | and the second second                           |  |
| (All of the above to be com  | pleted by the Operator/A                            | pplicant)                                       |  |
| (To be completed by Jurisdi purchaser, if known).  | ctional Agency. Execute                             | d copy to be returned to                        | Operator/Appli   |
| The December   |   |   |  |
|  |   |   | ication of the above described<br>al Gas Policy Act of 1978,<br>enhanced recovery technology<br>ted well under Section 198 of (NG) |
| All interested pas   | ties are hereby notified                            | that on the day o                               | f  |
| This Application i   | s assigned File No.                                 | 4,93001 2301                                    |  |
| Initial review of  | info  | dicates the well is.                            | ☐ is not   |
| and any additional evidence as the matter may be heard.  | claimed under the Natur<br>will be made at the time | al Gas Policy Act (NGPA) appointed for a public | is not  A review of this evidence hearing or as soon thereafter  |

JUN 97 1984

Date received by Jurisdictional Agency By 05/47/202

Title

WEST VIRGINIA DEPARTMENT OF MINES

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

Checklist of minimum Forms and Information needed to apply for each well classification Each is identified by an "Item No." The "Items" required are listed beneath each well classification.

FOR NEW ONSHORE WELL - Sec. 102 NGPA - More than 2.5 miles from a marker well. Items - 1, 2, 3, 4, 5, 6, 9, 10, 22, 23 - (18 & 19 Qualified)

FOR NEW ONSHORE WELL - Sec. 102 NGPA - More than 1,000 feet deeper than a marker well, Items - 1, 2, 3, 4, 5, 6, 9, 11, 22, 23 - (18 & 19 Qualified)

FOR NEW ONSHORE RESERVOIR WELL - Sec. 102 NGPA Items - 1, 2, 3, 4, 5, 6, 9, 12, 20, 21, 24 - (18 & 19 Qualified)

FOR NEW ONSHORE PRODUCTION WELL - Sec. 103 NGPA Items - 1, 2, 3, 4, 5, 6, 9, 13

FOR HIGH COST GAS - Sec. 107 NGPA Items - 1, 2, 3, 4, 5, 6, 9, 14, 19 - (18 Qualified)

FOR STRIPPER WELLS - Sec. 108 NGPA Items - 1, 2, 3, 4, 5, 6, 7, 8, 9, 15 (28 if Available)

FOR STRIPPER WELLS - Sec. 108 NGPA - Enhanced Recovery Items - 9, 16

FOR STRIPPER WELLS - Sec. 108 NGPA - Seasonally Affected Items - 9, 17, 28

| ITEM | FORM     |  |
|------|----------|--|
| NOS. | NO.      | DESCRIPTION  |
| 1.   | FERC 121 |  |
| 2.   | IV-1     | Operator Agent Certification   |
| 3.   | IV-2     | Well Permit Application  |
| 4.   | IV-6     | Well Plat  |
| 5.   | IV-35    | Well Operator's Drilling Report  |
| 6.   | IV-36    | Gas/Oil Ratio Test Report  |
| 7.   | IV-39    | Report of Annual Production  |
| 8.   | IV-40    | Ninety (90) Day Production Report  |
| 9.   | IV-48WC  | State Application for Well Classification                                    |
| 10.  | IV-51WC  | Wells drilled more than 2.5 miles from a marker well                         |
| 11.  | IV-52WC  | Wells drilled more than 1,000 feet deeper than a marker well                 |
| 12.  | IV-53WC  | New Onshore Reservoir Well   |
| 13.  | IV-54WC  | New Onshore Production Well  |
| 14.  | IV-55WC  | High Cost Natural Gas Well   |
| 15.  | IV-56WC  | Stripper Well Classification   |
| 16.  | IV-57WC  | Stripper - Increased Production by Enhanced Recovery                         |
| 17.  | IV-58WC  | Stripper - Seasonally Affected   |
| 18.  | N/A      | Directional Survey   |
| 19.  | N/A      | Electric Logs  |
| 20.  | N/A      | Subsurface cross-section charts (Geological charts)                          |
| 21.  | N/A      | Formation Structure Map  |
| 22.  | N/A      | 1:4000 Well Location Map   |
| 23.  | N/A      | Well Tabulation Sheet  |
| 24.  | N/A      | Gas Analysis   |
| 25.  | N/A      | Other  |
| 26.  | N/A      | Notice - Increase of Production  |
| 27.  | N/A      | Lease Inventory 05/17/2024   |
| 28.  | N/A      | Tax records or verified copies of billing statements for appropriate period. |
|      |          |  |

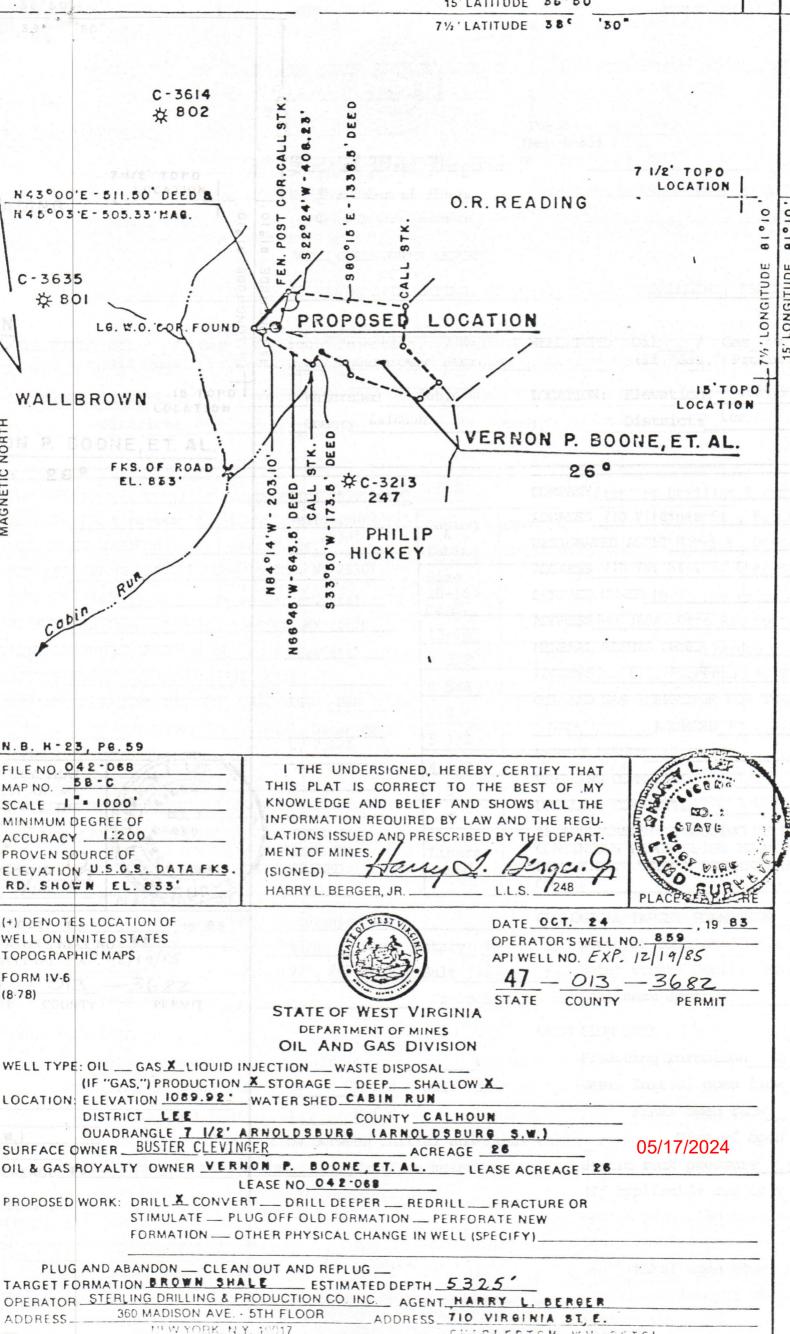
# DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

| Opera                 | ator Starting Ordling & Production Co., Inc. Agent: H.L. Berger  |
|-----------------------|--|
| Туре                  | Determination being sought - 107 (Devonian Shale)  |
|                       | Well No.: 47-013-3682 Well Name: BOONE # 859   |
| West                  | Virginia Office of Oil and Gas County: Calhoun cences: SJA File No.  |
| Vo                    | ol Page Line   |
| I.<br>(Shell<br>ess t | 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)   |
| Ž.                    | 1. GR Value at Base Line = 160 * API Units 2. Remarks:   |
| •                     | Gumma Ray Scale = 0 - 200 units  |
|                       | The state of the s |
|                       | B. Gamma Ray Log Value at 0.7 x Value at Base Line   |
|                       | 1. GR Value = 160 * APT Units  |
| 11 3                  | 2. Calculation: 0.7 (GR Value at Base Line)  |
| III.                  | $0.7 ( /60 *) = //2$ API Units Intervals with GR index less than $0.7 \times (Value at Base Line)$ :   |
|                       | Interval   |
| reer                  | From**  Thickness Feet of less than*  of Interval 0.7 (Shale Base Line)  Feet Feet   |
|                       | 2471' 5325'  |
|                       |  |
|                       |  |
|                       |  |
|                       |  |
|                       |  |
|                       |  |
|                       | Total Devonial Interval 2854'  |
| otal                  | Less Than 0.7 (Shale Base)   |
| 200                   | Than 0.7 (Shale Base Line) = $0.007 \times 100 = 0.7 \%$   |
|                       |  |
|                       | 05/17/2024   |
| *Mar                  | ked on log included with and   |

\*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.



P 522 056 676

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse) Sent to PORIS LEE PRICE Street and No. POX 160-A OTTO RT. P.O., State and ZIP Code SPENCER, W.V. Z5276 Postage \$ Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom, Date, and Address of Delivery TOTAL Postage and Fees Postmark or Date

PS Form 3800, Feb. 1982



DATE //-28.83
WELL NO. Boone = 859

# State of Mest Higmin API NO. 47 -013 - 3682

Beparlment of Mines Bil und Gas Bivision

## CONSTRUCTION AND RECLAMATION PLAN

| CASTRELIO.   |            | •   |
|--|------------|---|
| COMPANY NAME Sterling Drilling & Pr  | od. Co W   | ELL OPERATOR Sterling Drilling & F  |
| Address 360 Madison Ave NY, N  | Y 10017    | Address C/O H. D. Beiger Ondiery  |
| Telephone (212) 949-9100   |            | Telephone (304) 342-0121  |
| I AND WINER D. Las Paines  |            | SOIL CONS. DISTRICT Little Langue SCD   |
| Revegetation to be carried out by St   | terling :  | Drilling & Prod. CoH.L. Bergerent)  |
| mais plan has been reviewed by /,  | HIE        | Yanawha son. All corrections  |
| and additions become a part of this plan   | n: //      | 1-30-83   |
|  | 1          |   |
|  | far        | (SCD Agent)   |
|  |            | LOCATION  |
| . ACCESS ROAD  |            |   |
| Structure Columnia.  | (A)        | Structure Diversion Ditch (1)   |
| Spacing . Siie 12"   |            | Material Earthen  |
| Page Ref. Manual 2.8   |            | Page Ref. Manual 2-12   |
| 7  |            | Glandara Bin Pan (2   |
| Structure Drainage Ditches   | (B)        | Structure Rip-Rap (2  |
| Spacing Pondeide   |            | Material Rock   |
| Page Ref. Manual 2.12  |            | Page Ref. Manual 2-9  |
|  | (6)        | Structure (3)   |
| Structure Cross Ditches  | (C)        |   |
| Spacing 150' For 3-5 ? grades  |            | Material  |
| Page Ref. Manual 2-4   |            | Page Ref. Manual  |
| All structures should be inspected   | regularly  | and repaired if necessary. All  |
| all structures should be inspected commercial timber is to be cut and structure and removed from the site before | tacked und | all biasi and   |
| cut and removed from the stee bejoic   |            |   |
| RI   | EVEGETATIO | . V   |
| 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  | 2          | Mulch Hay 2 Tons/acre   |
| Seed* K3/ 40 lbs/acre  |            | Seed* Ky-51 4. lbs/acre   |
| Ladino Clouer 4 1bs/acre   |            | Ladino Clover 4 lbs/acre  |
| lbs/acre   |            | lbs/acre<br>  |
| *Inoculate all legumes such as vetch,  | trefoil    | o5/17/2024.  and clovers with the proper bacterium.  Moore's Well Services, Inc |
| Inoculate with 3% recommended amount.  |            | 0   |
|  | PLAN PRE   | PAFED BY Richard X. Complete  |
| NOTES: Please request landowners'  |            | ADDRESS Route 1 Box 30  |
| cooperation to protect new seedling for one growing season.  |            | Duck, WV 25063  |
| Attach separate sheets as  | PHO        | ONE NO. (304) 364-5780  |

