



1) Date: October 22, 19 82  
 2) Operator's Well No. HALL #709  
 3) API Well No. 47 087 3720  
 State County Permit

DRILLING CONTRACTOR:

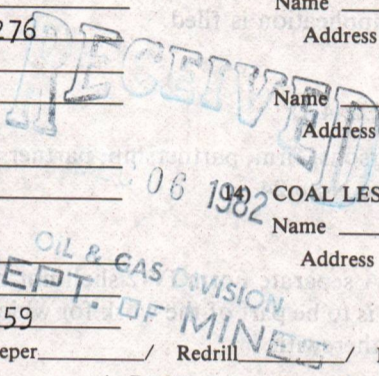
UNKNOWN

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

AT THIS TIME

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil        / Gas X /  
 B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 949.75' Watershed: Rush Creek  
 District: Smithfield County: Roane Quadrangle: 7.5' Looneyville
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 360 Madison Ave., Fifth Floor Address 710 Virginia St., E.  
New York, New York 10017 Charleston, W.V. 25301
- 7) OIL & GAS ROYALTY OWNER Charles H. Hall, et al  
 Address 901 Ann St.  
Ravenswood, W.V. 26264  
 Acreage 251
- 8) SURFACE OWNER Brown Jarvis  
 Address Spencer, W.V. 25276  
 Acreage 251
- 9) FIELD SALE (IF MADE) TO:  
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Homer H. Dougherty  
 Address Linden Rt. Box 3 - A  
Looneyville, W.V. 25259
- 11) COAL OPERATOR UNOPERATED  
 Address
- 12) COAL OPERATOR UNOPERATED  
 Address
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name UNKNOWN  
 Address
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name         
 Address
- 15) PROPOSED WORK: Drill X / Drill deeper        / Redrill        / Fracture or stimulate         
 Plug off old formation        / Perforate new formation         
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE
- 17) Estimated depth of completed well, 4950 feet
- 18) Approximate water strata depths: Fresh,        feet; salt,        feet.
- 19) Approximate coal seam depths: 0 Is coal being mined in the area? Yes        / No X



20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	9 5/8	LS	33#	X		400'	400'	To Surface	Sizes
Coal									Depths set
Intermediate	7 <sup>III</sup>	J-55	20#	X		2200'	2200'	100 sks	Perforations:
Production	4 1/2	ERW	10.5#	X			4950'	250 sks	Top Bottom
Tubing									
Liners									

21) 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.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: David M. Westpie  
 My Commission Expires May 10, 1989

Signed: Harry L. Berger, Jr.  
 Its: Designated Agent

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-087-3720

Date December 8, 1982

Date 12/08/2023

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires August 8, 1983

unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>OK</u>	Plat: <u>MA</u>	Casing: <u>MA</u>	Fee: <u>3695</u>
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[Signature]  
 Administrator, Office of Oil and Gas

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





1) Date: November 15, 19 83  
 2) Operator's Well No. 709 - Ren.  
 3) API Well No. 47 - 087 - 3720-Ren  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION Formerly 47 - 087 - 3720  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 949.75' Watershed: Rush Creek  
 District: Smithfield County: Roane Quadrangle: 7.5' Looneyville
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 360 Madison Ave. Fifth Floor Address 710 Virginia St., E.  
New York, New York 10017 Charleston, W.V. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Homer H. Dougherty  
 Address Linden Rt. Box 3 - A  
Looneyville, W.V. 25259
- 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME  
 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
- 12) Estimated depth of completed well, 4950 feet
- 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes  / No

**RECEIVED**  
 NOV 17 1983  
 OIL & GAS DIVISION  
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	9 5/8	LS	33#	X		400'	400'	To Surface	by rule 15-05
Coal									Sizes
Intermediate	7"	J-55	20#	X		2200'	2200'	100 sks	
Production	4 1/2	ERW	10.5#	X			4950'	250 sks	or as req Depths set by rule 15-01
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number 47-087-3720-Ren

Date December 1, 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 1, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<b>BLANKET BOND</b>	<u>LMH</u>	<u>LMH</u>	<u>5847</u>	

*[Signature]*  
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

4) WELL LOCATION: B (If "Gas" Production) \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 District: \_\_\_\_\_  
 County: \_\_\_\_\_  
 Quadrangle: \_\_\_\_\_  
 5) WELL OPERATOR: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 6) DESIGNATED AGENT: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 7) DRILLING CONTRACTOR: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 9) PROPOSED WELL WORK: \_\_\_\_\_  
 Drill \_\_\_\_\_ / Drill \_\_\_\_\_ / Drilling \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perform new formation \_\_\_\_\_  
 Other physical change in well (specify): \_\_\_\_\_  
 10) GEOLOGICAL TARGET FORMATION: \_\_\_\_\_  
 11) Estimated depth of completed well: \_\_\_\_\_ feet  
 12) Approximate true depth: \_\_\_\_\_ feet  
 13) Approximate coal seam depths: \_\_\_\_\_ feet  
 14) Is coal being mined in the area? Yes \_\_\_\_\_ No \_\_\_\_\_

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 NOV 17 1983  
 OIL & GAS DIVISION  
 DEPT. OF MINES

Casing or Tubing Type	Size	Grade	Specification		Footage Intervals	Cement Fill-Up or Sacks (Cubic feet)	Packers
			Weight per ft.	New / Used			
Conductor							
Fresh water							
Coal							
Intermediate							
Production							
Tubing							
Lines							

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)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

Found:	Agency:	Plant:	Casing:	Fee:
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NOTE: Keep one copy of this permit posted at the drilling location.



DATE \_\_\_\_\_

WELL NO. Brown Jarvis # 709

State of West Virginia API NO. 47-087-3720-

Department of Mines  
Oil and Gas Division

Ren.

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. Co WELL OPERATOR Sterling Drilling & Prod. Co

Address 360 Madison Ave. - NY, NY 10017 Address c/o H.L. Berger - Chars., WV

Telephone (212) 949-9100 Telephone (304) 342-0121

LANDOWNER Brown Jarvis SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Sterling Drilling & Prod. Co. - H.L. Berger (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 11-4-82

(Date)

Jarrett Newton  
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>12" casing</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-8</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Drainage Ditches</u> (B)	Structure <u>Rip-Rap</u> (2)
Spacing <u>Roadside</u>	Material <u>Rock</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>N/A 2-9</u>
Structure <u>Cross Ditches</u> (C)	Structure _____ (3)
Spacing <u>80' fir 10% grade</u>	Material _____
Page Ref. Manual <u>2-4</u>	Page Ref. Manual _____

RECEIVED  
OIL & GAS DIVISION  
DEPT. OF MINES  
06 1982

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I	Treatment Area II
Lime <u>2</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>2</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch Hay <u>2</u> Tons/acre	Mulch Hay <u>2</u> Tons/acre
Seed* <u>Ky-31</u> <u>25</u> lbs/acre	Seed* <u>Ky-31</u> <u>25</u> lbs/acre
<u>Orchardgrass</u> <u>15</u> lbs/acre	<u>Orchardgrass</u> <u>15</u> lbs/acre
<u>Ladino Clover</u> <u>3</u> lbs/acre	<u>Ladino Clover</u> <u>3</u> lbs/acre

12/08/2023

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Moore's Well Services, Inc.

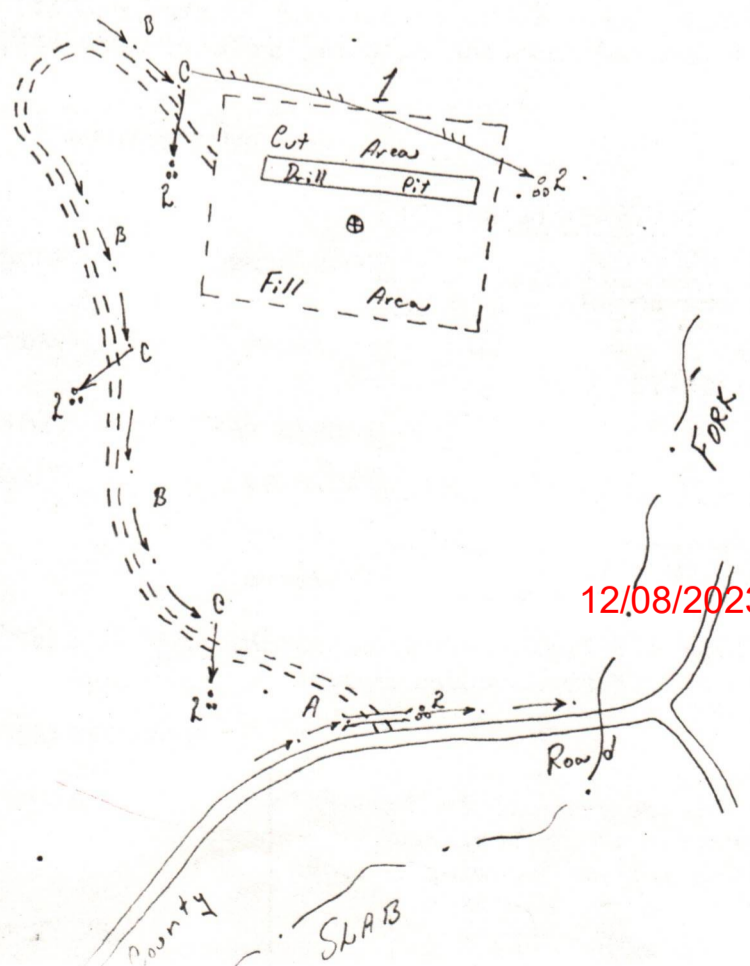
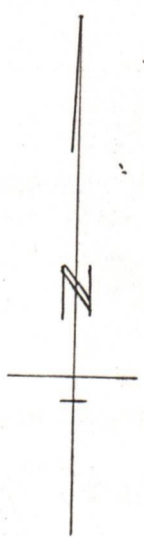
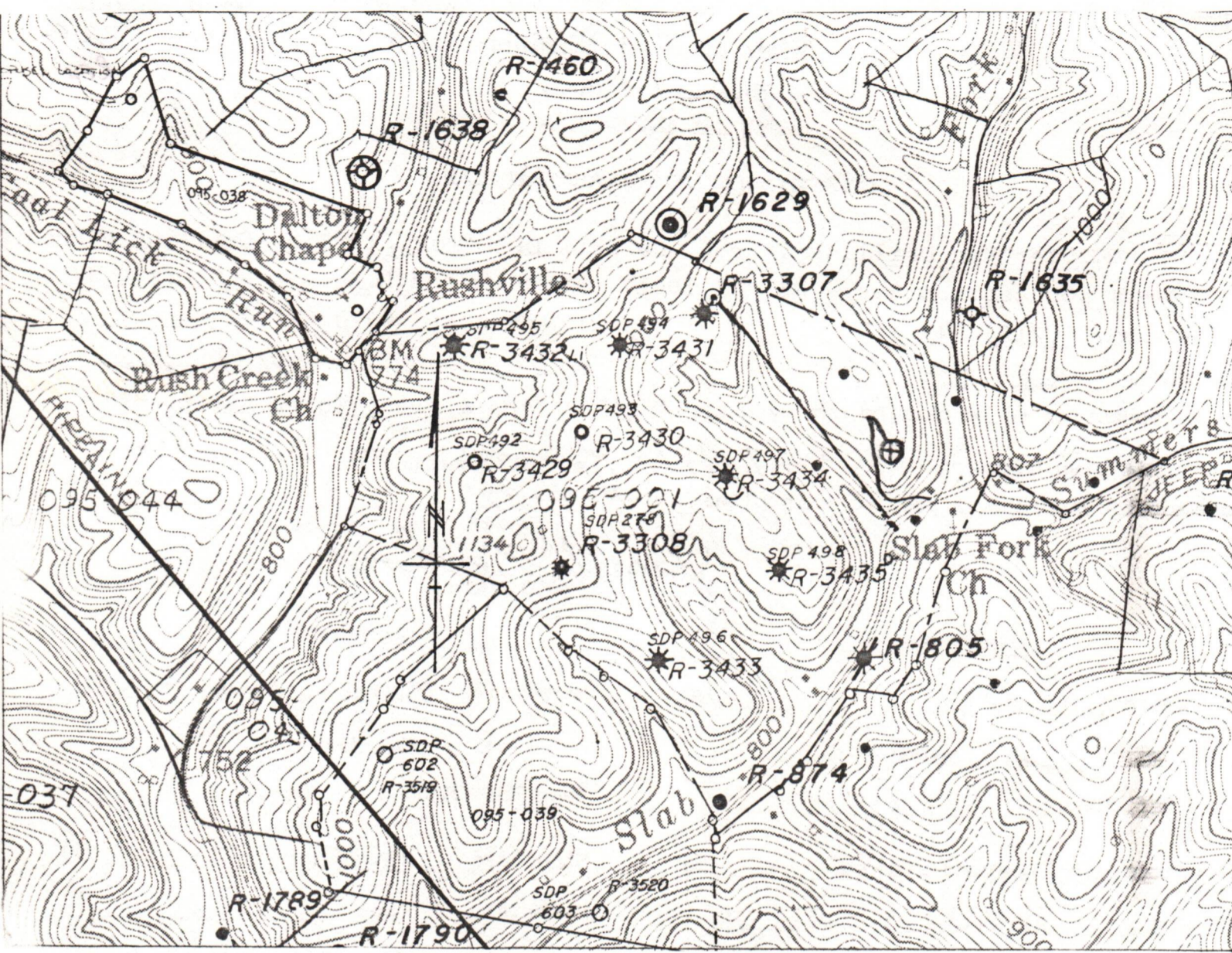
PLAN PREPARED BY Richard A. Campbell

ADDRESS Route 1 Box 30

Duck, WV 25063

PHONE NO. (304) 364-5780

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.





I N S T R U C T I O N S T O A P P L I C A N T

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 § 22-4-1b(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.
- 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 § 22-4-1k 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 § 22-4-1k(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 § 22-4-1a(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 oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Charles H. Hall 901 Ann St. Ravenswood, W.V. 26264	Sterling Drilling and Production Co., Inc.	1/8	148/575

12/08/2023





1) Date: November 15, 1983  
 2) Operator's Well No. 709 - Ren.  
 3) API Well No. 47 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**RECEIVED**  
NOV 22 1983

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION Formerly 47 - 087 - 3720  
**APPLICATION FOR A WELL WORK PERMIT**

**OIL & GAS DIVISION  
 DEPT. OF MINES**

- 4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 949.75' Watershed: Rush Creek  
 District: Smithfield County: Roane Quadrangle: 7.5' Looneyville
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. 7) DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 360 Madison Ave. Fifth Floor Address 710 Virginia St., E.  
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- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Homer H. Dougherty  
 Address Linden Pt. Box 3 - A  
Looneyville, W.V. 25259
- 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME  
 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
- 12) Estimated depth of completed well, 4950 feet
- 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	
Conductor										
Fresh water	<u>9 5/8</u>	<u>LS</u>	<u>33#</u>	<input checked="" type="checkbox"/>		<u>400'</u>	<u>400'</u>	<u>To Surface</u>	Sizes	
Coal										
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<input checked="" type="checkbox"/>		<u>2200'</u>	<u>2800'</u>	<u>100 sks</u>	Depths set	
Production	<u>4 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<input checked="" type="checkbox"/>			<u>4950'</u>	<u>250 sks</u>		
Tubing									Perforations:	
Liners									Top	Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

Brown Jarvis Date: \_\_\_\_\_  
 (Signature)  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature)

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

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

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

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

**Where to file comments and obtain additional information:**

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

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

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

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

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

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

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

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

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

12/08/2023  
Surface Owner

STERLING DRILLING AND PRODUCTION CO., INC.

ARCADE BUILDING

710 VIRGINIA STREET EAST

CHARLESTON, WEST VIRGINIA 25301

(304) 342-0121

State of West Virginia  
Department of Mines  
Office of Oil and Gas  
Charleston, W.V. 25311

Date OCTOBER 19, 1982

SUBJECT: Oil and Gas Well Permit Application

REFERENCE: Extraction Rights

COMPLIANCE: Code 22-4-1-(C)

Sterling Drilling and Production Co., Inc. Well Number 709

Lease Number 095-001 Acreage 251

Lease Date 12/16/78 Recording Date 3/15/79

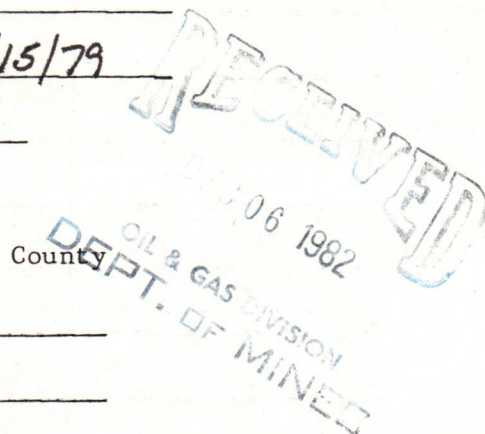
Recorded in Book 148 at Page 575

LESSOR INDEX ON REVERSE SIDE

LOCATION: SMITHFIELD District of ROANE County

WATERSHED: RUSH CREEK

QUADRANGLE: 7.5' LOONEYVILLE



AFFIDAVIT

I, HARRY L. BERGER, JR., an authorized representative of Sterling Drilling and Production Co., Inc., hereby certify that the above information is true and that the owner or owners of the minerals underlying the above described tract will receive minimum one eighth (1/8) royalty payments from any producing oil and / or gas well drilled thereon under this contract.

Signed: Harry L. Berger, Jr.  
Authorized representative

Notary: David M. McElroy

My Commission Expires 5/10/89

LESSOR INDEX

CHARLES H. AND NORMA HALL

MARIAN T. AND RAY WESLEY HUPP

MARY A. H. AND JAMES MARTIN

MARGARET E. PARSONS

RECEIVED

NOV 15 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date Nov 9, 1984 Operator's Well No. 709 Farm Hall API No. 47 - 087 - 3720

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 949.75 Watershed Rush Creek District: Smithfield County Roane Quadrangle 7 1/2' Loonyville

COMPANY Sterling Drilling & Production Co., Inc.

ADDRESS 710 Virginia St., E, Charleston, WV 25301 DESIGNATED AGENT Harry L. Berger, Jr.

ADDRESS 710 Va. St., E. Charleston, WV 25301

SURFACE OWNER Brown Jarvis

ADDRESS Spencer, WV 25276

MINERAL RIGHTS OWNER Charles H. Hall, etal

ADDRESS 901 Ann St., Ravenswood, WV 26264

OIL AND GAS INSPECTOR FOR THIS WORK Homer H Daugherty ADDRESS Linden Rt., Box 3-A Looneyville, WV 25259

PERMIT ISSUED December 1, 1983

DRILLING COMMENCED September 10, 1984

DRILLING COMPLETED September 16, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4950' feet

Depth of completed well 4838' KB feet Rotary x / Cable Tools

Water strata depth: Fresh 78' feet; Salt 1645 feet

Coal seam depths: NONE Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3010'-4640' feet

Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d

Final open flow 375 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 21 hours

Static rock pressure 1010 psig (surface measurement) after 96 12/08/2023 shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

ROANE

3720

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

Perforations:

1st Stage: 29 holes from 3893' to 4640'  
2nd Stage: 26 holes from 3010' to 3788'

Treatment:

1st Stage: 1250 gals. of 15% HCl; 1736 MSCF. of N<sub>2</sub>  
2nd Stage: 1250 gals. of 15% HCl; 1584 MSCF of N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone and Shale			0	322	All measurements from 10' KB Fresh water @ 78'
Sandstone			322	392	
Sandstone and Shale			392	891	Salt water @ 1645'
Sandstone			891	1020	
Shale			1020	1091	
Sandstone			1091	1155	
Sandstone and Shale			1155	1630	
Salt Sand			1630	1714	
Shale			1714	1724	
Salt Sand			1724	1777	
Shale			1777	1787	
Salt Sand			1787	1897	
Little Lime			1897	1908	
Pencil Cave			1908	1914	
Big Lime			1914	2043	
Big Injun			2043	2087	
Siltstone and Shale			2087	2456	
Sunbury Shale			2456	2472	
Siltstone and Shale			2472	2915	
Shale			2915	4838	Gas shos 3010' - 3788' 3893' - 4640'
					TD 4838

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.  
Well Operator 12/08/2023  
By: Harry J. Berger  
Date: Nov 9, 1984

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 coal, encountered in the drilling of a well."

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

RECEIVED  
SEP 19 1984

INSPECTOR'S WELL REPORT  
OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 087-3720-Rem.

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Sterling Drilling & Prod.  
Address Charleston, W. Va.  
Farm Charles Hall  
Well No. 709  
District Smithfield County Roane  
Drilling commenced 9/10/84  
Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer _____
16			
13			
<u>9 5/8</u>		<u>419</u>	Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 9 5/8 SIZE 419 No. FT. 9/11/84 Date  
NAME OF SERVICE COMPANY Halliburton  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names Charles Starchy Rusher John McCroskey

Remarks: Moore's Well Services Rig #2  
9/10/84 Moved on Ripped up + started drilling at 2:15 P.M.,  
9/11/84 Ran 419 ft of 9 5/8" surface pipe and cemented with  
200 sacks of neat 3% C.C. & 1/4 lb. of flocc, Plug down 1:30 A.M.  
9/12/84 1500 ft deep drilling on fluid with 8 3/4" Bit.

9/12/84  
DATE

Homer H. Probst  
DISTRICT WELL INSPECTOR  
12/08/2023





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

RECEIVED

SEP 18 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 087-3720-Ren.

Oil or Gas Well \_\_\_\_\_  
(KIND)

		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company	<u>Sterling Drilling Prod.</u>	Size			Kind of Packer
Address	<u>Charleston, W.Va.</u>	16			
Farm	<u>Charles Hall</u>	13			
Well No.	<u>709</u>	10			Size of
District	<u>Smithfield County Roane</u>	8 1/4			
Drilling commenced	<u>9/10/84</u>	<u>7</u>		<u>2327</u>	Depth set
Drilling completed		5 3/16			
Date shot		3			Perf. top
Initial open flow		2			Perf. bottom
Open flow after tubing		Liners Used			Perf. top
Volume					Perf. bottom
Rock pressure		CASING CEMENTED <u>7"</u> SIZE <u>2327</u> No. FT. <u>9/14/84</u> Date			
Oil		NAME OF SERVICE COMPANY <u>Halliburton</u>			
Fresh water		COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water		_____ FEET _____ INCHES _____ FEET _____ INCHES			
		_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Charles Starches Pushes John McCroskey

Remarks: Moors Well Service Rig #2

9/14/84 Ran 02327 ft of 7" casing and cemented with 175 sacks of neat 3 1/2 cc. & 1/2 lb of flocc Plug down 2:30 P.M. by Halliburton

9/14/84  
DATE

Homer H. [Signature]  
12/08/2023  
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
FINAL INSPECTION REQUEST  
INSPECTOR'S COMPLIANCE REPORT

RECEIVED

OCT 11 1983

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 087-3720

County Roane

Company Sterling Drilling & Prod. Co.

District Smithfield

Inspector HOMER DOUGHERTY

Farm Charles H. Hall, et al

Date September 27, 1983

Well No. 709 Issued 12-8-82

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification prior to sta	_____	_____
25.04	Prepared before drilling	_____	_____
25.03	High-pressure drilling	_____	_____
16.01	Required permits at well	_____	_____
15.03	Adequate fresh water cas	_____	_____
15.02	Adequate coal casing	_____	_____
15.01	Adequate production cas	_____	_____
15.04	Adequate cement strengt	_____	_____
23.02	Maintained access road	_____	_____
25.01	Necessary equipment to	_____	_____
23.03	Reclaimed drilling sit	_____	_____
23.04	Reclaimed drilling pits	_____	_____
23.05	No surface or underground pollution	_____	_____
7.05	Identification markings	_____	_____

*Wt Permit  
12-8-82  
Was Cancelled  
9-30-83  
12-1-83-Per  
Drilled*

COMMENTS: Release on Cancellation if location is ok -

Permit has expired

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: Homer H. Dougherty

DATE: 9/30/83 12/08/2023

DEPT. OF...  
...  
...

DEPT. OF...  
...

Cancelled

12/08/2023



State of West Virginia  
 Department of Mines  
 Oil and Gas Division  
 Charleston 25305

WALTER N. MILLER  
 DIRECTOR

THEODORE M. STREIT  
 ADMINISTRATOR

October 19, 1983

Sterling Drilling & Production Co.  
 710 Virginia Street, East - Arcade Bldg.  
 Charleston, W. Va. 25301

In Re: PERMIT NO: 47-087-3720  
 FARM: Charles H. Hall, et al  
 WELL NO: 709  
 DISTRICT: Smithfield  
 COUNTY Roane (12/82)

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

XXXXXX The well designated by the above permit number has been released under your Blanket Bond. (Permit Cancelled - Never Drilled.)

         Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

         Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

Very truly yours,

Theodore M. Streit, Administrator  
 Office of Oil & Gas-Dept. Mines

12-1-83-Ren

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE Gas  
ELEVATION \_\_\_\_\_  
DISTRICT Smithfield  
QUADRANGLE Looneyville  
COUNTY Boane

API# 47-087 - 3720 Ren.  
OPERATOR Sterling Dilling  
TELEPHONE \_\_\_\_\_  
FARM Charles Hall  
WELL # 709 Ren.

SURFACE OWNER Brown Jarvis COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
LOCATION \_\_\_\_\_ NOTIFIED \_\_\_\_\_ DRILLING COMMENCED \_\_\_\_\_

WATER DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
COAL DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

CASING

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up

DEPARTMENT OF ENERGY  
OIL AND GAS

TD \_\_\_\_\_ feet on \_\_\_\_\_

PLUGGING

MAY 28 1986

Type	From	To	Pipe Removed

Pit Discharge date: \_\_\_\_\_ Type \_\_\_\_\_

Field analysis \_\_\_\_\_ ph \_\_\_\_\_ fe \_\_\_\_\_ cl \_\_\_\_\_

Well Record received \_\_\_\_\_ Reclamation O.K. to release

Date Released 5-21-86

Homer H. Dougherty  
Inspector's signature  
12/08/2023

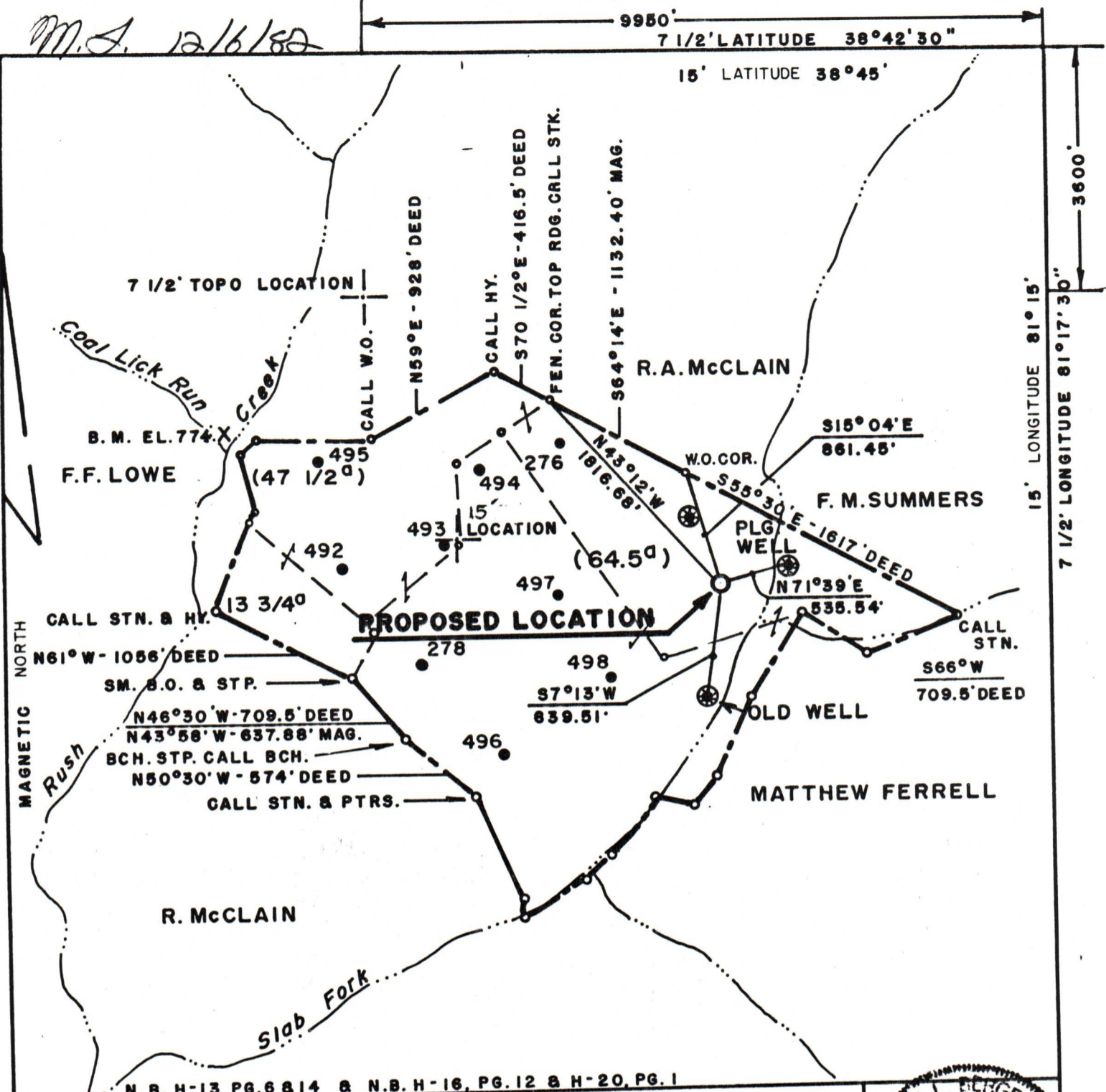
API# 47 \_\_\_\_\_ - \_\_\_\_\_

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
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Notes

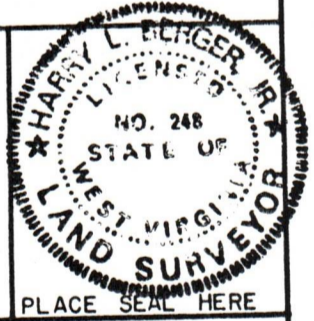
M.S. 12/6/82



N.B. H-13, PG. 6 & 14 & N.B. H-16, PG. 12 & H-20, PG. 1

FILE NO. 095-001 NO. 14  
 DRAWING NO. 73-B  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. SHOWN ON PLAT EL. 774'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Harry J. Berger, Jr.  
 R.P.E. \_\_\_\_\_ L.L.S. 248



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE OCT. 18, 19 82  
 OPERATOR'S WELL NO. 709  
 API WELL NO. \_\_\_\_\_  
47 - 087 - 372 D. Ren.  
 STATE COUNTY PERMIT  
Re-Instated

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 949.75' WATER SHED RUSH CREEK  
 DISTRICT SMITHVILLE COUNTY ROANE  
 QUADRANGLE 7 1/2' LOONEYVILLE (WALTON N.E.)  
 SURFACE OWNER BROWN JARVIS ACREAGE 251  
 OIL & GAS ROYALTY OWNER CHARLES H. HALL, ET. AL. LEASE ACREAGE 127/08/2023  
 LEASE NO. 095-001  
 PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 4950'  
 WELL OPERATOR STERLING DRUG. & PROD. CO., INC. AGENT HARRY L. BERGER,  
 ADDRESS 360 MADISON AVE, 5 TH FLOOR ADDRESS 710 VIRGINIA ST. E.  
NEW YORK, NY 10017 CHARLESTON, WV 10017

ROANE - 3720