

7/85

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AUG 7 1985



1) Date: August 5, 1985
2) Operator's Well No. Nicholson #1101
3) API Well No. 47 -013-3927
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 995' Watershed: Beech Fork
District: Washington 5 County: Calhoun Quadrangle: Tariff 7.5' 634
- 6) WELL OPERATOR Sterling Drilling CODE: 47550 7) DESIGNATED AGENT William E. Stover
Address 150 Grand Street 4th Floor Address 710 Virginia Street East
White Plains, NY 10601 Charleston, WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Deo Mace Name Unknown at this time
Address Route 1Box 5 Address
Sand Ridge, WV 25274
- 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, Devonian Shale
- 12) Estimated depth of completed well, 4750' feet
- 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: 0 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	Sizes
Conductor										
Fresh water	9 5/8	LS	33#	x		350'	350'	To Surface		by rule 15.05
Coal										
Intermediate	7"	J-55	20#	x		2275'	2275'	100 sks		
Production	4 1/2	ERW	10.5#	x			4750'	200 sks or as required		by rule 15.01
Tubing										
Liners										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-013-3927

Date August 14, 1985

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 August 14, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: ALB	Plat: MH	Casing: MH	Fee: 9396	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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Director, Division of Oil and Gas

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

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

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

1) WELL TYPE: A - Oil Gas Shallow Deep Intermediate B - Oil Gas Production Other

2) LOCATION: Elevation: 3951
County: Cabot
Address: 150 Grand Street 4th Floor
Wince Plains, WV 25374

3) WELL OPERATOR: Sperring Drilling Code: 47350
Address: 150 Grand Street 4th Floor
Wince Plains, WV 25374

4) OIL & GAS INSPECTOR TO BE NOTIFIED:
Name: Bob Mage
Address: Route Box 5
Garn, W.Va. 25374

10) PROPOSED WELL WORK: Drill Plug off old formation Plug off old formation & before new formation Other physical change in well (specify): Devonian shale

11) GEOLOGICAL TARGET FORMATION: Devonian shale

12) Estimated depth of completed well: 4730'

13) Approximate target depth: 4730'

14) Approximate completion depth: 4730'

15) CASING AND LIFTING PROGRAM

WELL TYPE	DATE	TIME	WELL DEPTH	WELL TYPE	DATE	TIME	WELL DEPTH
Oil	8/7/83	10:30	330'	Gas	8/7/83	10:30	330'

OFFICE USE ONLY

This part of Form WW-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: _____

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1) Date: August 5, 1985
2) Operator's Well No. Nicholson #1101
3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas /
B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 995' Watershed: Beech Fork
District: Washington County: Calhoun Quadrangle: Tariff 7.5'
- 6) WELL OPERATOR Sterling Drilling CODE: 47550 7) DESIGNATED AGENT William E. Stover
Address 150 Grand Street 4th Floor Address 710 Virginia Street East
White Plains, NY 10601 Charleston, WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Deo Mace Name Unknown at this time
Address Route 1Box 5 Address _____
Sand Ridge, WV 25274
- 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, Devonian Shale
- 12) Estimated depth of completed well, 4750' feet
- 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: 0 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		
Conductor									Kinds
Fresh water	<u>9 5/8</u>	<u>LS</u>	<u>33#</u>	<input checked="" type="checkbox"/>		<u>350'</u>	<u>350'</u>	<u>To Surface</u>	
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<input checked="" type="checkbox"/>		<u>2275'</u>	<u>2275'</u>	<u>100 sks</u>	
Production	<u>4 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<input checked="" type="checkbox"/>			<u>4750'</u>		Depths set
Tubing									
Liners									Perforations: 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, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B), (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-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: _____

X Earl Wayne
(Signature)

By _____

Date 8/19/85

Its _____ Date _____

X Arnie Wayne
(Signature)

Date 8/19/85

12/08/2023

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 22B, Article 1 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 Director of the Division of Oil and Gas in the West Virginia Department of Energy immediately.

NOTE : YOU ARE NOT REQUIRED TO FILE ANY COMMENT AT ALL.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION :

Director, Division of Oil and Gas
West Virginia Department of Energy
1615 Washington Street, East
Charleston, West Virginia 25311-2192
(304) - 348 - 3500

Who may file comments? If you wish to file comments, you must be an owner of record of (1) and 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 over 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 Director'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 Director's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Director 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 Director.

List of Water Testing Laboratories. The Director 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 Director's office or an Oil and Gas Inspector to obtain a copy of the list.

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SITE REGISTRATION APPLICATION FORM
STATE OF WEST VIRGINIA/NPDES GENERAL PERMIT FOR OIL AND GAS
DRILLING PIT WASTE DISCHARGE
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1. Company Name Sterling Drilling & Production Company, Inc.
2. Mailing Address 710 Virginia Street East, Arcade Building, Chas. WV 25301
street city state zip
3. Telephone 342-0121 4. Well Name Nicholson 1101
5. Latitude 38°45'00" Longitude 81°07'30"
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-013-3927
8. County Calhoun 9. Nearest Town Milo
10. Nearest Stream Beech Fork 11. Tributary of Henry's Fork
12. Will Discharge be Contracted Out? yes no
13. If Yes, Proposed Contractor Unknown at this time.
Address _____
Telephone _____
14. Proposed Disposal Method: UIC _____ Land application
Off Site Disposal _____ Reuse _____ Centralized Treatment _____
Thermal Evaporation _____ Other _____
15. Attach to this application a topographic map (a duplicate of the one submitted to the Office of Oil and Gas) showing the outline of the facility, location of wells, springs, rivers and other surface water bodies, and drinking water wells known to the applicant in the area of the lease that may be impacted by any land application.

Nothing in the general permit shall be deemed in any way to create new, or enlarge existing, rights of riparian owners or others. Neither does anything in the general permit create new, or enlarge existing, obligations or duties of an operator pursuant to the requirements of W. Va. Code S22-4-1 et seq. The issuance of the general permit does not convey any property rights of any sort. Nor shall the issuance of the general permit give rise to any presumptions of law or findings of fact inuring to or for the benefit of persons other than the State of West Virginia.

12/08/2023

By completing and submitting this application, I have reviewed, understand, and agree to the terms and conditions of the general permit issued on July 10, 1985. I understand that provisions of the permit are enforceable by law. Violations of any term and condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

COMPANY OFFICIAL SIGNATURE

William S. Stone

DATE 8/5/85

Please attached \$50.00 permit application fee required by Series III, Section 7, of the West Virginia Administrative regulations of the State Water Resources Board.

All spills or accidental discharges are required to be reported immediately to the Emergency Response Spill Alert System toll free telephone number 1-800-642-3074.

LANDOWNER ADMINISTRATIVE REVIEW RIGHTS

The conditions in the general NPDES permit for pit waste treatment and discharge have been developed so that they are applicable to general conditions found throughout the state. There may be particular sets of circumstances at specific sites that require modification of established procedures. You as a land owner, if you feel the site on your property requires such consideration for water quality/general permit compliance related matters, may request an administrative review of that site. If there are valid water quality concerns, the Division of Water Resources will address them by either not allowing the pit construction and subsequent discharge, or by altering the standard operating procedures to deal with the particular unique nature of this site. Such requests should be forwarded in writing to:

Chief, Division of Water Resources
Department of Natural Resources
1201 Greenbrier St.
Charleston, West Virginia 25311.

To ensure prompt review of your site it is suggested that you also call the Field Operations Branch (348-2745) and verbally make the request.

12/08/2023



WR-35

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date October 15, 1985
Operator's
Well No. 1101
Farm Nicholson
API No. 47 - 013 - 3927

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 x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 995' Watershed Beech Fork
District: Washington County Calhoun Quadrangle Tariff 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.

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

DESIGNATED AGENT William E. Stover

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

SURFACE OWNER Earl & Orvie Wayne

ADDRESS Milo Rt., Linden, WV 25256

MINERAL RIGHTS OWNER Benjamin Nicholson, et al

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt. 1 Box 5 Sandridge, WV 25274

PERMIT ISSUED August 14, 1985

DRILLING COMMENCED September 5, 1985

DRILLING COMPLETED September 10, 1985

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	360'	360'	135 sks.
8 5/8			
7	2264'	2264'	190 sks.
5 1/2			
4 1/2		4225'	200 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4750' feet

Depth of completed well 4260' KB feet Rotary x / Cable Tools

Water strata depth: Fresh not reported feet; Salt 635' feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2909'-3982' feet

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

Final open flow 260 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 26 1/2 hours

Static rock pressure 730 psig (surface measurement) after 48 hours 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

(Continue on reverse side)

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

PERFORATIONS

1st Stage: 9/30/85 24 holes 3551'-3982'
 2nd Stage: 10/4/85 25 holes 2909'-3394'

TREATMENT

1st Stage: 9/30/85 500 gals. 15% HCl; 1.5 MMSCF N₂
 2nd Stage: 10/7/85 700 gals. 15% HCl; 1.3 MMSCF N₂

WELL LOG

1101

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	1711	All depths from 10'KB Salt water @ 635'
Salt Sand			1711	1823	
Shale			1823	1878	
Sandstone			1878	1929	
Shale			1929	1937	
Little Lime			1937	1984	
Pencil Cave			1984	1992	
Big Lime			1992	2118	
Big Injun			2118	2158	
Silty Shale			2158	2462	
Sunbury Shale			2462	2483	
Siltstone and Shale			2483	2992	
Shale			2992	4260	
Total Depth				4260	

(Attach separate sheets as necessary)

Sterling Drilling & Production Co., Inc.

Well Operator

By: *William E. Slaver*

12/08/2023

Date: October 14, 1985

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

INSPECTOR'S WELL REPORT

Permit No. 13-3927

Oil or Gas Well _____
(KIND)

Company Stearns
 Address _____
 Farm Michalsen
 Well No. 1101
 District Wash County Cal
 Drilling commenced _____
 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			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Hunt &

Remarks: Spuddy 4 PM
10 PM 360' 9 5/8" casing, Dowell, 9-5-85
Good cement circulated.

9-5-85
DATE

Des M... 12/08/2023
DISTRICT WELL INSPECTOR

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

APR 15 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3927

8-14-85

Oil or Gas Well _____
(KIND)

Company Sterling

Address _____

Farm Michalsms

Well No. 1101

District Wash County Cal

Drilling commenced _____

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			
16			Kind of Packer _____
13			
10			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 _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks:
Release Reclamation

4-12-86
DATE

Des Mace
DISTRICT WELL INSPECTOR

12/08/2023

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

1.0 API well number:
(If not assigned, leave blank. 14 digits.) 47 - 013 - 3927 -

2.0 Type of determination being sought:
(Use the codes found on the front of this form.)
Section of NGPA 107 Category 200

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) feet

4.0 Name, address and code number of applicant: (25 letters per line maximum. If code number not available, leave blank.)
Sterling Drilling and Production Co. Inc.
Name 710 Virginia St. East, Arcade Building
Street Charleston, WV 25301
City State WV Zip Code

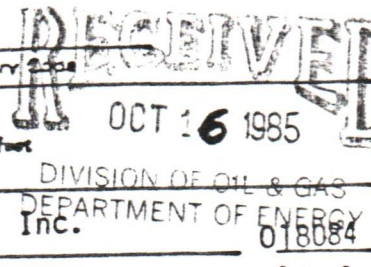
5.0 Location of this well: (Complete (a) or (b).)
(a) For onshore wells (25 letters maximum for field name.)
Washington
Field Name Calhoun
County State WV
(b) For OCS wells:
Area Name Block Number
Date of Lease:
Mo. Day Yr. OCS Lease Number

(c) Name and identification number of this well: (25 letters and digits maximum.)
Nicholson #1101

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (25 letters maximum.)

6.0 (a) Name and code number of the purchaser: (25 letters and digits maximum. If code number not available, leave blank.)
Undedicated
Name Buyer Code
(b) Date of the contract:
Mo. Day Yr.

(c) Estimated total annual production from the well:
7.8 Million Cubic Feet



	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU <u>6.076</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU <u>6.076</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

9.0 Person responsible for this application:

William E. Stover Designated Agent
Name William E. Stover Title
Signature 10/14/85
Date Application is Completed 304-342-0121
Phone Number

Agency Use Only

Date Received by JWR: OCT 16 1985

Date Received by PERC:

12/08/2023

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: October 14, 1985

47550

AGENCY USE ONLY

Applicant's Name: Sterling Drilling & Production Co.

Inc. WELL DETERMINATION FILE NUMBER

Address: 710 Virginia St., E., Arcade Bldg.
Charleston, WV 25301

851016 - 1073 - 013 - 3927

Gas Purchaser Contract No. _____

Use Above File Number on all
Communications Relating to This Well

Date of Contract _____
(Month, day and year)

SDP # 1101

First Purchaser: Undedicated P 629

Designated Agent: William E. Stover

Address: _____
(Street or P.O. Box)

(City) (State) (Zip Code)

Address: 710 Virginia St., E, Arcade Bldg.
Charleston, WV 25301

FERC Seller Code _____

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL
BE ADDRESSED:

Name: William E. Stover
(Print)

Vice President/Drilling Supervi
(Title)

Signature: William E. Stover

Address: 710 Virginia St., E., Arcade Bldg.
(Street or P.O. Box)
Charleston, WV 25301

Telephone: 304 342-0121
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

- 108 Stripper Well Natural Gas
- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildu

- 103 New Onshore Production Well
- 103 New Onshore Production Well

- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- x 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

12/08/2023

RECEIVED
OCT 16 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

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

Operator: Sterling Drilling & Production Co. Agent: William E. Stover
 Type Determination being sought - 107 (Devonian Shale)
 API Well No.: 47-013-3927 Well Name: Nicholson #1101
 West Virginia Office of Oil and Gas County: Calhoun
 References: SJA File No.

Vol. Page Line

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 150 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 105 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{150} \text{ *)} = \underline{105} \text{ API Units}$

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2480	4248	1768	31

Total Devonian Interval 1768

Total Less Than 0.7 (Shale Base) 31

% Less Than 0.7 (Shale Base Line) = $\frac{0.0175}{1} \times 100 = \underline{1.8} \%$

*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.

12/08/2023

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Operator's Well No. 1101

API Well No.

47 - 013 - 3927
State County Permit

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

DESIGNATED AGENT William E. Stover
ADDRESS 710 Virginia St., E., Arcade Bldg.
Charleston, WV 25301

LOCATION Elevation 995'
Watershed Beech Fork

Dist. Wash. County Calhoun Quad. Tariff

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

WELL OPERATOR Sterling Drilling & Prod. Co., Inc.
ADDRESS 710 Virginia St., E., Arcade Bldg.
Charleston, WV 25301

GAS PURCHASER Undedicated
ADDRESS _____

* * * * *

Date surface drilling began: September 5, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated.

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 4260) + 459.67 = 551.62 \cdot X = \frac{1}{53.34} / \frac{551.62}{1} = 0.00003399$$

$$Pf \ 730 \times 2.7183 \ 0.00003399 \times 0.690 \times 1.08 \times 3445.5 = 796.5 \text{ PSIA}$$

AFFIDAVIT

I, William E. Stover, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

William E. Stover

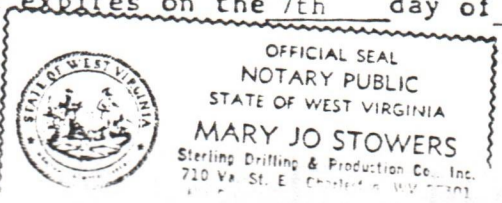
STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, Mary Jo Stowers, a Notary Public in and for the state and county aforesaid, do certify that William E. Stover, whose name is signed to the writing above, bearing date the 14th day of October, 19 85 12/08/2023 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 14th day of October, 19 85.
My term of office expires on the 7th day of August, 19 85.

(NOTARIAL SEAL)



Mary Jo Stowers
Notary Public

1) Date: August 5, 1985
Operator's
2) Well No. 1101
3) API Well No. 47 - 013 - 3927
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Earl and Orvie Wayne
Address Milo Route
Linden, WV 25256
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5 (i) COAL OPERATOR Unoperated
Address _____

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Unknown
Address _____

Name _____
Address _____

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

and the following documents:

Sent to	<u>Earl & Orvie Wayne</u>	
Street and No.	<u>Milo Route</u>	
P.O., State and ZIP Code	<u>Linden, WV 25276</u>	
Postage	<u>\$.56</u>	
Certified Fee	<u>.75</u>	
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered	<u>.70</u>	
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	<u>\$ 2.01</u>	
Postmark or Date	<u>AUG 5 1985</u>	

PS Form 3800, Feb. 1982

* U.S.G.P.O. 1983-403-517

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL 101
(See Reverse)

RECEIVED
AUG 7 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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 22B-1-8(c)(1) through (4). (see reverse side for specifics.)

7) ROYALTY PROVISIONS

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

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

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
William E. Stover
this 5th day of August, 1985,
My commission expires October 27, 1991.
John K. Brooks
Notary Public, Kanawha County,
State of West Virginia

WELL OPERATOR Sterling Drilling & Pro. Co., Inc.
By William E. Stover
Its Designated Agent
Address 710 Virginia Street East, Ardade Bldg.
Charleston, WV 25301
Telephone 342-0121

12/08/2023

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 Division 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 §22B-1-9(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 §22B-1-36.
- 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 §22B-1-6 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 §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 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 § § 22B-1-9, 22-B-1-13 and 22B-1-14.

INFORMATION SUPPLIED UNDER CODE §22B-1-8(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>
Benjamin Nicholson, et al	Consolidated	1/8	67/435
Consolidated	Sterling Drilling		12/08/2023

RECEIVED
AUG 7 1985



IV-9
(Rev 8-81)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

DATE JULY 19, 1985

WELL NO. SDP.co. 1101

State of West Virginia API NO. 47 - 013 - 3927

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. Co.
150 GRAND ST. & 11TH STREET

DESIGNATED AGENT WILLIAM E. STOVER
710 VIRGINIA ST. EAST

Address White Plains, N.Y. 10601

Address CHARLESTON, W.VA. 25301

Telephone (212) 682-0204

Telephone (304) 342-0121

LANDOWNER EARL & ORVIE WAYNE

SOIL CONS. DISTRICT LITTLE KANAWHA

Revegetation to be carried out by UNKNOWN AT THIS TIME (Agent)

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

7/24/85
(Date)
Randall L. Atkinson
(SCD Agent)

ACCESS ROAD

LOCATION

Structure DRAINAGE DITCH (A)

Structure DIVERSION DITCH (1)

Spacing EARTHEN

Material EARTHEN

Page Ref. Manual (2-12)

Page Ref. Manual (2-12)

Structure CROSS DRAINS (B)

Structure ROCK-RIP-RAP (2)

Spacing 2% every 250, 10% every 80'
15% every 60, 20% every 45'

Material ROCK

Page Ref. Manual (2-4)

Page Ref. Manual (2-16) (C-4)

Structure ROAD CULVERT (C)

Structure PIT (3)

Spacing (2) 16" x 24" LINE PIPES
(1) 20" x 30" LINE PIPE

Material EARTHEN

Page Ref. Manual (2-1)(2-3)

Page Ref. Manual N/A

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.

STR. SEDIMENT BARRIER
MAT. - BRUSH & STONE (4)

REVEGETATION Ref. MAN PG-(2-16) (2-18)

Treatment Area I

Treatment Area II

Lime 2-5* Tons/acre
or correct to pH 6.5

Lime 2-5* Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Fertilizer 500 ± lbs/acre
(10-20-20 or equivalent)

Mulch HAY 2 Tons/acre

Mulch HAY 2 Tons/acre

Seed* REDTOP CLOVER 5 ± lbs/acre

Seed* REDTOP CLOVER 5 ± lbs/acre

Ky 31 40 lbs/acre
lbs/acre

Ky 31 40 lbs/acre
lbs/acre

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

PLAN PREPARED BY MARK C. ECHARD, LLS 12/08/2023


ADDRESS RTE 71, BOX 6
GLENVILLE, W.VA. 26351


PHONE NO. (304) 462-5565

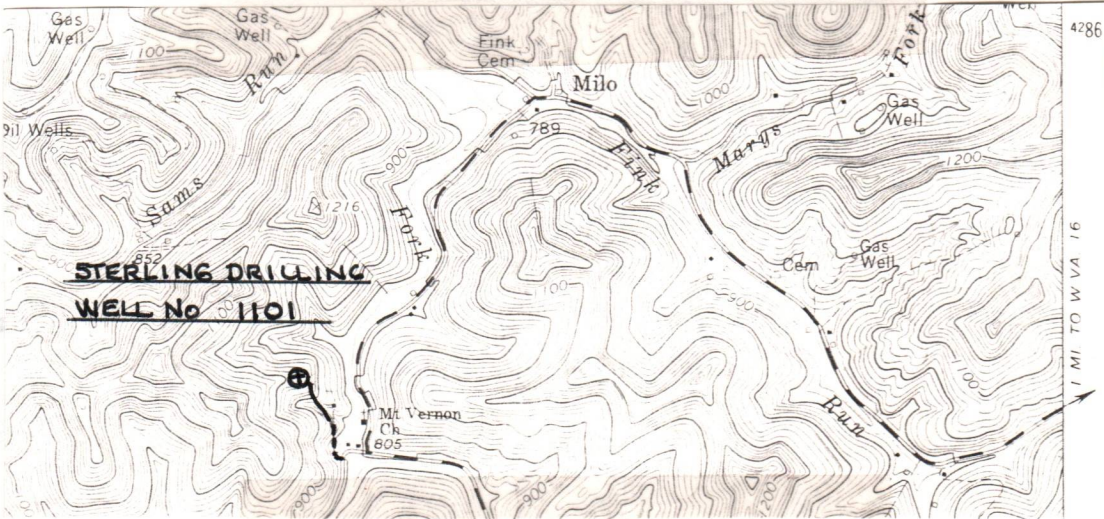
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE TARLEFF 7.5'

LEGEND

Well Site 












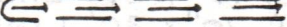
Access Road 



WELL SITE PLAN

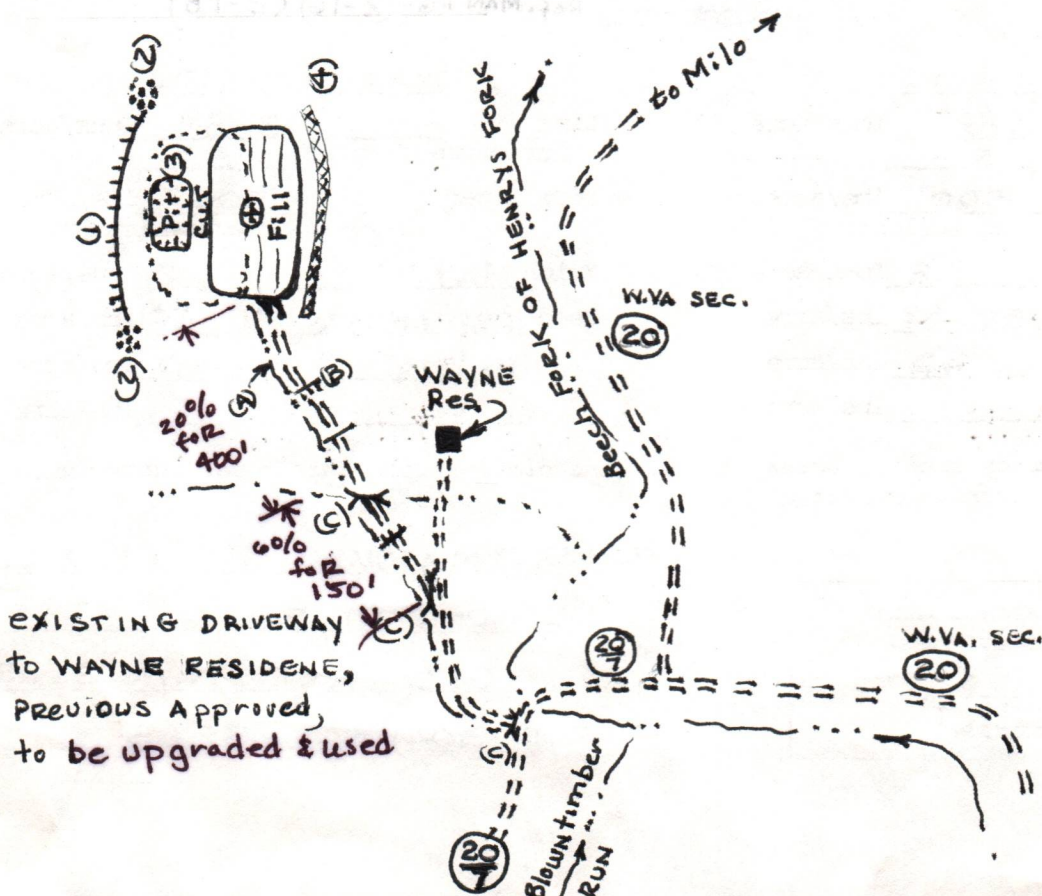
Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

STERLING DRILLING & PRODUCTION Co.
A. NICHOLASON et al No. 1101

* Note: Topsoil to be stockpiled for USE LATER in reclaiming loc. site!



12/08/2023