



1) Date: June 6, 19 85
 2) Operator's Well No. Uldrich #1048-Rev.
 3) API Well No. 47 -013-3918
 State County Permit

RECEIVED
 JUN 06 1985

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

- 4) WELL TYPE: A Oil / Gas / (If Gas, Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1165.8' / Watershed: Philip Run / District: Center / County: Calhoun / Quadrangle: 7.5' Grantsville 379
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.
 Address 150 Grand street 4th Floor White Plains, NY 10601 47530 / Address 710 Virginia Street East Charleston, WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace / Address Route 1 Box 5 Sand Ridge, WV 25274
- 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, Devonian Shale
- 12) Estimated depth of completed well, 5100' 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		
Conductor									
Fresh water	9 5/8"	LS	33#	x		450'	450'	To surface	Kinds NEAT
Coal									Sizes
Intermediate	7"	J-55	20#	x		2340'	2340'	100 sks	on as required by rule 75.01
Production	4 1/2"	ERW	10.5#	x		5100'	5100'	250 sks	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3918 / Date June 25, 19 85

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 June 25, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 148	Agent: ATB	Plat: MP	Casing: MP	Fee: 9143
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Margaret J. Hase
 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

WELL OPERATOR: *Center*
 ADDRESS: *150 Grand Street 4th Floor*
White Plains, NY 10601
 COUNTY: *Westchester*
 TOWNSHIP: *Greenburgh*
 LOCATION: *1165.8'*

DEPTH (FEET)	LOG NUMBER	DATE	DESCRIPTION
100 sbs	2340'		
250 sbs	3100'		
To surface	450'		

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: _____



IV-9
(Rev 8-87)



DATE 11-16-84

WELL NO. Uldrich # 1048 Rev

State of West Virginia API NO. 47 - 013 - 3918

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. CODESIGNATED AGENT Sterling Drilling & Pro

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

Telephone (212) 682-0204 Telephone (304) 342-0121

LANDOWNER Otto W. Jarvis SOIL CONS. DISTRICT _____

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

This plan has been reviewed by Little Kanawha S.C.D. All corrections and additions become a part of this plan: _____

11/21/84
(Date)
Randall K. Ockison
(SCD Agent)

ACCESS ROAD

LOCATION

Structure _____ (A)

Structure _____ (1)

Size _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure Drainage Ditches (B)

Structure Rip-Rap (2)

Location Roadside

Material Rock

Page Ref. Manual 2-12

Page Ref. Manual 2-9

Structure Cross Drains .. 12" pipe (C)

Structure _____

Spacing 400' for 2-5%

Material _____

Page Ref. Manual 2-8 Table 4

Page Ref. Manual _____

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 2 Tons/acre
or correct to pH 6.5

Lime 2 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 or Straw 2 Tons/acre

Mulch Hay or Straw 2 Tons/acre

Seed* Ky-31 40 lbs/acre

Seed* Ky-31 40 lbs/acre

Ladino Clover 4 lbs/acre

Ladino Clover 4 lbs/acre

lbs/acre

lbs/acre

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

12/01/2023

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.

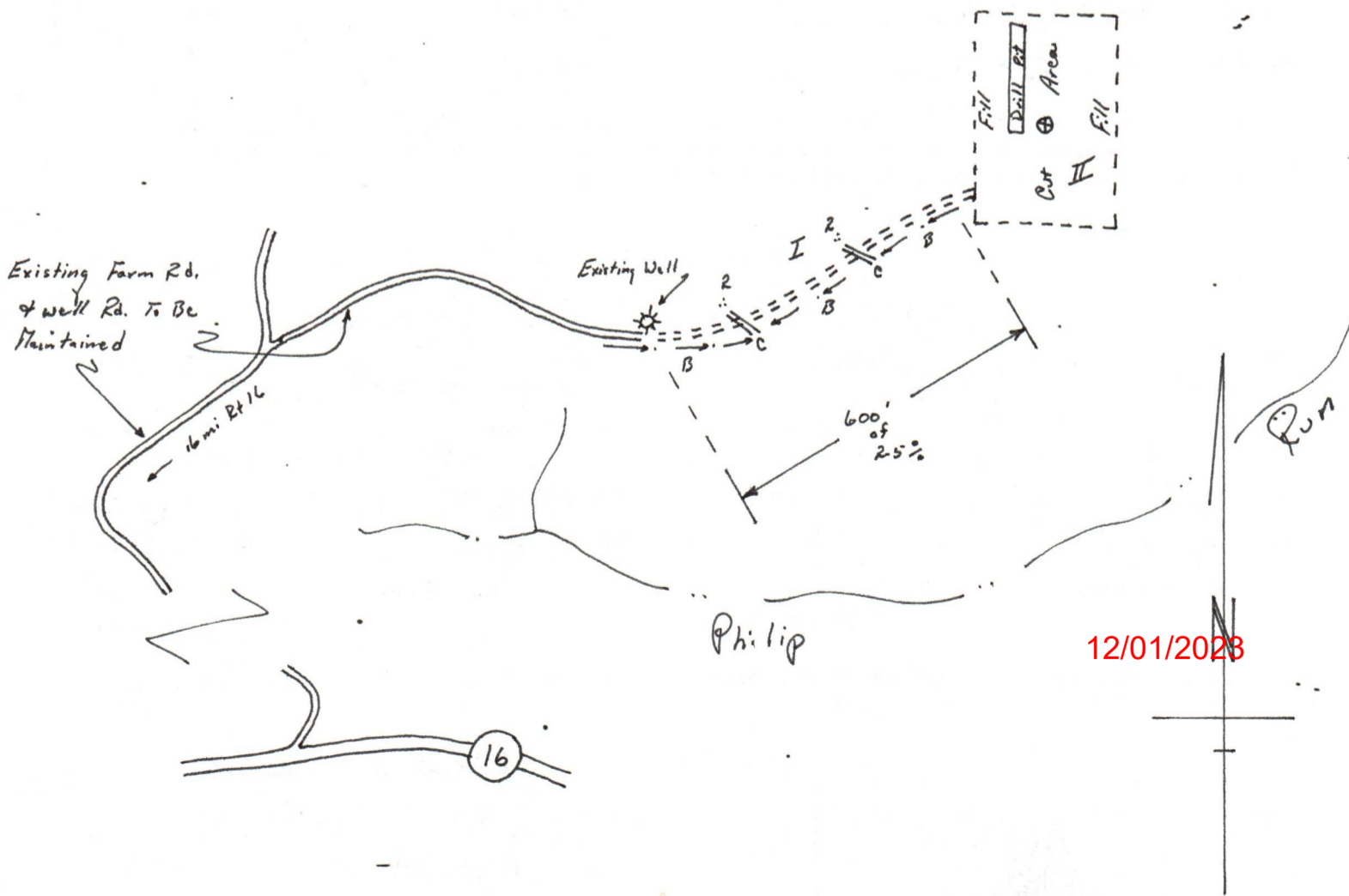
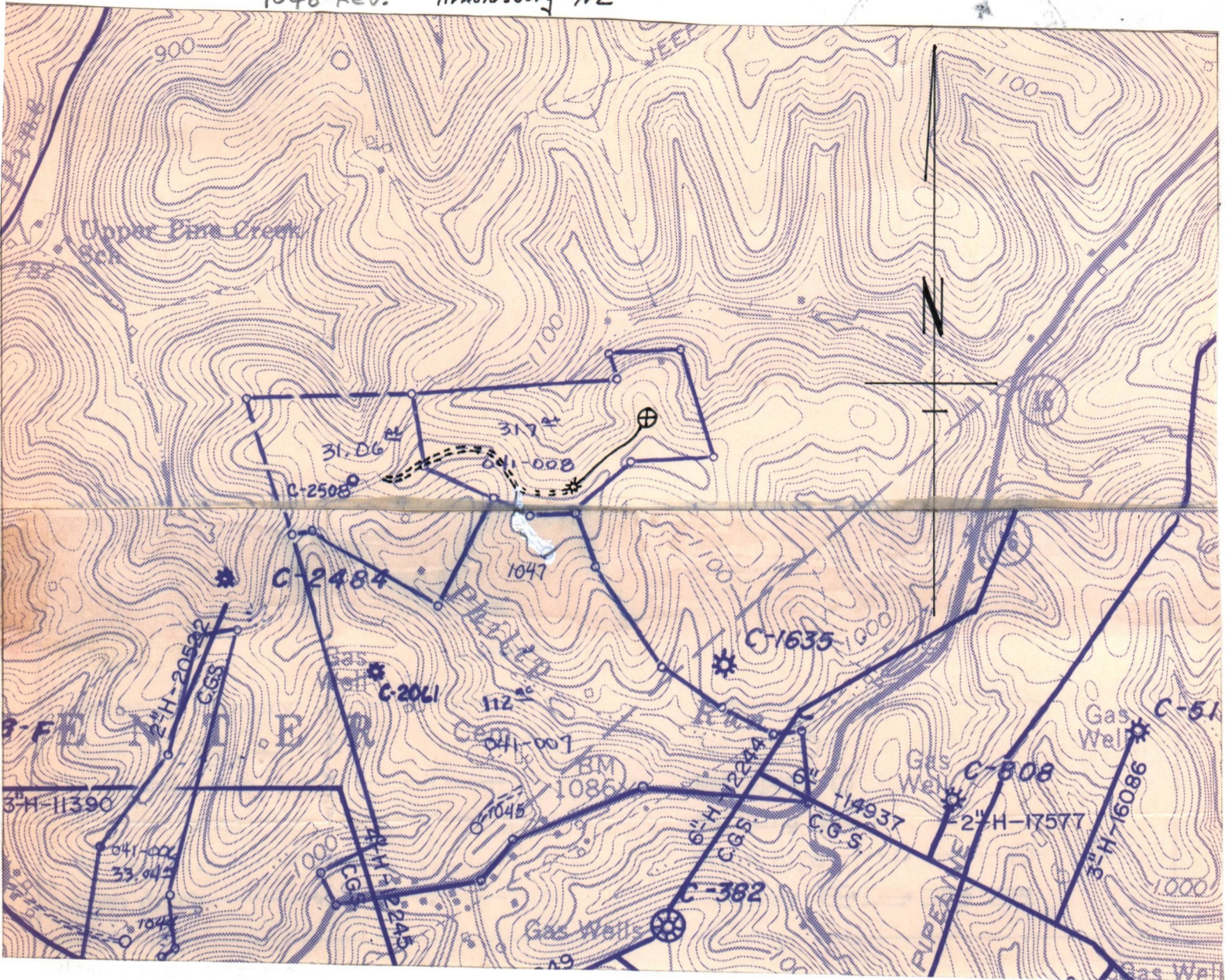
RECEIVED
JUN 06 1985
OIL & GAS DIVISION
DEPT. OF MINE

IV-9 REVERSE
(REV 6-81)

INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 7 1/2' Grantsville
1048-Rev. Arnoldsburg NE

LEGEND

Well Site 
Access Road 



1) Date: June 6, 1985
 2) Operator's Well No. 1048-Rev.
 3) API Well No. 47-013-3918
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS
 NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED
 (i) Name Rolpha J. and Madge Jarvis
 Address Route 1 Box 103
Grantsville, WV 26147
 (ii) Name _____
 Address _____
 (iii) Name _____
 Address _____

5(i) COAL OPERATOR Unoperated
 Address _____

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

^{1048-Rev.}
 P522 273 234
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

TO THE PERSON(S) NAMED IN SECTION 4	
(1) The Application to be plugged and described, including centering	Sent to <u>Rolpha J. & Madge Jarvis</u>
(2) The plat	Street and No. <u>Route 1 Box 103</u>
(3) The Construction of the well plug and well reclamation	P.O., State and ZIP Code <u>Grantsville, WV 26147</u>
THE REASON YOU WHICH ARE SUMMARIZED IN SECTION 4 (FORM IV-2(B) OR FORM IV-2(C)) ACTION AT ALL.	Postage <u>\$.56</u>
Take notice that the operator proposes to drill for a Well Work Permit for a Well Work Permit from the Department of Mines and depicted on attached plat. Construction and Reclamation to be performed by hand to the permittee before the day of _____, 1985.	Certified Fee <u>.75</u>
6) EXTRACTION RIGHTS Check and provide the following: <input type="checkbox"/> Included in the permit <input checked="" type="checkbox"/> The requirements of the permit	Special Delivery Fee _____
7) ROYALTY PROVISIONS Is the right to the minerals or other contract for compensation for the volume of _____?	Restricted Delivery Fee _____
PS Form 3800, Feb. 1982	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 _____

LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____

and the following documents:
 (or Form IV-4 if the well is being drilled or other work, including the proposed casing and well completion plan, Form IV-6; and a declaration that the well work is only to be for sediment control and for erosion control.)

COPIES REGARDING THE APPLICATION AND THE COPY OF THE APPLICATION ARE REQUIRED TO TAKE ANY ACTION.

the undersigned well operator and accompanying documents filed with the Department of Mines and Gas, West Virginia, as described on attached Application, the plat, and the permit, or certified mail or delivered in circumstances) on or _____, 1985.

It is hereby declared that the well work is not upon a lease or leases or any similar provision is not inherently related to the well work. Yes No

RECEIVED
 JUN 10 1985

OIL & GAS DIVISION
 DEPT. OF MINES

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

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

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Harry L. Berger, Jr.
 this 6 day of June, 1985.
 My commission expires Oct. 27, 1991.
John K. Brooks
 Notary Public, Kanawha County,
 State of West Virginia

WELL OPERATOR Sterling Drilling & Prod. Co., Inc.
 By Harry L. Berger, Jr.
 Its Designated Agent
 Address 710 Virginia St. E., Arcade Bldg.
Charleston, WV 25301
 Telephone 342-0121

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>
Lewis C. Jarvis, et al	F.F. McIntosh, etal	1/8	16/189
McIntosh & Grimm	Sterling Drilling		89/436

APPLICATION
WV GENERAL NPDES PERMIT FOR OIL & GAS
DRILLING PIT WASTE DISCHARGE

Permit No. 013-3918

A. APPLICATION (To Be Completed By Company)

1. Company Name: Sterling Drilling and Production Co., Inc.
Mailing Address: Arcade Bldg., 710 Virginia St., East, Charleston, WV 25301
Telephone: (304) 342-0121 Well No. 1048 ReWell Name Undrich

2. Name of stream that may be discharged to: Philip Run

A tributary of: Little Kanawha River

3. Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):
As per Section 3, Land Application (Guidelines)

4. Name of person supervising discharge: Jim Davis, et al
Telephone: (304) 342-0101; (304) 655-8584

5. By completing and submitting this application, I agree to adhere to the guidance and provisions of the interim experimental general permit system. I understand that the participation in the program does not prohibit enforcement action for violation of the terms of this general permit or some other applicable law or regulation.

Harry J. Berg 6/6/85
Signature Date

B. NOTIFICATION (To Be Completed By DWR)

1. Company telephone contact: (Approximately 48 hours prior to discharge):
Discharge Date: _____
Type of Disposal method selected: _____
Volume of Waste: _____ Discharge rate: _____ CFS
Time projected for discharge: _____ DAYS
Receiving Stream flow rate: _____ CFS

C. INSPECTION (To Be Completed By DWR)

1. Compliance with general permit interim guidelines:
Acceptable: _____ Not Acceptable: _____
Comments: _____

2. Division of Water Resources Action Taken: _____

- Action Recommended: _____

3. Parameters (Taken By Operator or Inspector Prior to Discharge):
pH _____ / _____
Chloride _____ / _____
Total Fe _____ / _____

4. 208 Practices (Informational Only):
Acceptable: _____ Not Acceptable: _____
Comments: _____

RECEIVED
JUN 06 1985

WR-35

RECEIVED
OCT 15 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date September 30, 1985
Operator's Well No. 1048-Rev.
Farm Uldrich
API No. 47 - 013 - 3918

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: 1165.8' Watershed Phillip Run
District: Center County Calhoun Quadrangle Grantsville 7.5'

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 Rolpha J. & Madge Jarvis

ADDRESS Rt. 1 Box 103, Grantsville, WV 26147

MINERAL RIGHTS OWNER Lewis C. Jarvis estate, et al
c/o R. J. Jarvis

ADDRESS Rt. 1 Box 103, Grantsville, WV 26147

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace
ADDRESS Rt. 1 Box 5 Sandridge, WV 25274

PERMIT ISSUED June 25, 1985

DRILLING COMMENCED July 14, 1985

DRILLING COMPLETED July 19, 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	463'	463'	180 sks.
8 5/8			
7	2356'	2356'	190 sks.
5 1/2			
4 1/2		4681'	230 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5100' feet

Depth of completed well 4719'KB feet Rotary X / Cable Tools

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

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3560'-4629' feet

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

Final open flow 332 Mcf/d Final open flow show Bbl/d

Time of open flow between initial and final tests 73 hours

Static rock pressure 570 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

12/01/2023

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)

CAL 3918

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

PERFORATIONS

1st Stage- 19 holes 4231'-4629'
 2nd Stage- 24 holes 3560'-4118'

TREATMENT

1st Stage- 250 gals. 15% HCl; 1,400 MSCF N₂
 2nd Stage- 650 gals. 15% HCl; 1,400 MSCF N₂

WELL LOG

1048 Rev.

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
					All Depths from 10' KB
Sandstone and Shale			0	1214	
Sandstone			1214	1261	
Shale			1261	1320	
Sandstone			1320	1410	
Shale			1410	1414	
Sandstone			1414	1427	
Sandstone and Shale			1427	1824	
Salt Sand W/Shale Stringers			1824	1916	
Shale			1916	1927	
Sandstone			1927	1936	
Shale			1936	1987	
Salt Sand			1987	2062	
Shale			2062	2068	
Little Lime			2068	2098	
Pencil Cave			2098	2104	
Big Lime			2104	2228	
Big Injun			2228	2248	
Silty Shale			2248	2558	
Sunbury Shale			2558	2581	
Berea			2581	2585	
Siltstone and Shale			2585	2894	
Gordon			2894	2942	
Shale			2942	3608	
Warren			3608	3660	
Shale			3660	4719	
Total Depth				4719	

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.

Well Operator

By: William E. Shaw

12/01/2023

Date: October 14th, 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 ..., encountered in the drilling of a well."

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



APR 23 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3918
(6-25-85)

Oil or Gas Well _____
(KIND)

Company <u>Sterling Drill. & Prod.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Ralph Jarvis</u>	16			Kind of Packer _____
Well No. <u>1048</u>	13			
District <u>Center</u> County <u>Gilmer</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:
Release Reclamation

4-19-86
DATE

Dew Maca
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

12/01/2023
DISTRICT WELL INSPECTOR

**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 - 3918 -
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4719
4.0 Name, address and code number of applicant: (25 letters per line maximum. If code number not available, leave blank.)	<p align="center">RECEIVED OCT 16 1985 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY</p> <p align="right">18084 Seller Code</p> <p>Sterling Drilling and Production Co. Name 710 Virginia St. East, Arcade Building Street Charleston, WV 25301 City State Zip Code</p>
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (25 letters maximum for field name.)	<p align="center">Center Field Name Calhoun County State WV</p>
(b) For OCS wells:	<p align="center">Area Name Block Number</p> <p align="center">Date of Lease: Mo. Day Yr. OCS Lease Number</p>
(c) Name and identification number of this well: (25 letters and digits maximum.)	* Uldrich # 1048-Rev.
(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.)	Consolidated Natural Gas Name Buyer Code
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated total annual production from the well:	9.96 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 6.076	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 6.076	---	---	---

9.0 Person responsible for this application:	<p align="center">William E. Stover Name <i>William E. Stover</i> Signature 10/14/85 Date Application is Completed</p>	<p align="center">Designated Agent Title 304-342-0121 Phone Number</p>
--	--	--

Agency Use Only

Date Received by Juris. Agency
OCT 16 1985

Date Received by FERC

12/01/2023

NOV 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: October 14, 19 85

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 - 3918

Gas Purchaser Contract No. _____

Use Above File Number on all Communications Relating to This Well

Date of Contract _____
(Month, day and year)

SDP #1048

First Purchaser: Consolidated Natural Gas

Designated Agent: William E. Stover

Address: 445 West Main Street
(Street or P.O. Box)
Clarksburg WV 26301
(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

12/01/2023

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.: 47-013-3918 Well Name: Uldrich #1048-Rev.

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 = 157 * API Units
2. Remarks:

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

1. GR Value = 110 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{157} \text{ *)} = \underline{110} \text{ API Units}$

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***		
2580	4710	2130	20

Total Devonian Interval 2130

Total Less Than 0.7 (Shale Base) 20

% Less Than 0.7 (Shale Base Line) = $\frac{0.0093}{2130} \times 100 = \underline{0.9} \%$

*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.

12/01/2023

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Operator's Well No. 1048-Rev.

API Well No.

47 - 013 - 3918
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 1165.80'
Watershed Philip Run
Dist. Center County Calhoun Quad Grantsville

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

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

GAS PURCHASER Consolidated Natural Gas
ADDRESS 445 West Main Street
Clarksburg, WV 26301

* * * * *

Date surface drilling began: July 14, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 4719) + 459.67 = 555.06 \quad X = \frac{1}{53.34} / \frac{555.06}{1} = 0.00003378$$

$$Pf \quad 570 \quad x \quad 2.7183 \quad 0.00003378 \quad x \quad 0.690 \quad x \quad 1.08 \quad x \quad 4094.5 = 631.8 \quad PSIA$$

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)(i)(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, 1985 12/01/2023 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 14th day of October, 1985.
My term of office expires on the 7th day of August, 1985.

(NOTARIAL SEAL)
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY JO STOWERS
Sterling Drilling & Production Co., Inc.
710 Va. St. E. Charleston, WV 25301
My Commission Expires Aug. 7, 1995

Mary Jo Stowers
Notary Public

MN 6-21-85

15' LATITUDE

6100'

7 1/2' LATITUDE 38° 55'

HERBERT SMITH

DELTA ULDRICH, ET. AL.

31.7^a

F. JARVIS

C-2484

1047

C-2041

SHOCK

1044

PROPOSED LOCATION

CALL PTR.

S1 E - 735.9' DEED

N43°20'E
807.91'

S22°18'W - 364.44'

CALL STK.

N62°W - 858' DEED

SET STN. CALL STK.
S87°W - 297' DEED

SET STN. COR.

S54°W - 488.4' DEED

S58°59'W - 485.56' MAG.

FEN. POST COR. CALL CHES.

S88°W - 561' DEED

CALL PTRS.

C-1635

PHILIP Run

X U.S.G.S. B.M.
EL. 1086'

REFERENCE POINTS
PROPOSED LOCATION TO:
3' STK. SET - S0°27'E - 230.4'
3' STK. SET - N54°04'W - 164.3'

C-382

7 1/2' TOPO LOCATION

M-21, PG. 78, M-25, PG. 72, M-31, PG. 27

FILE NO. 041-008
MAP NO. 58-8
SCALE 1=1000'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION U.S.G.S. DATA B.M.
SHOWN EL. 1086'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) Harry L. Berger, Jr.
HARRY L. BERGER, JR. L.L.S. 248



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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JUNE 6, 1985
OPERATOR'S WELL NO. 1048 REV.
API WELL NO.
47-013-3918
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1168.80' WATER SHED PHILIP RUN
DISTRICT CENTER COUNTY CALHOUN
QUADRANGLE 7 1/2' GRANTSVILLE (ARNOLDSBURG N.E.)
SURFACE OWNER ROLPH J. JARVIS ACREAGE 31.7
OIL & GAS ROYALTY OWNER DELTA ULDRICH, ET. AL. LEASE ACREAGE 31.7'
LEASE NO. 041-008
PROPOSED WORK: DRILL ___ 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 DEV. SHALE ESTIMATED DEPTH 5100'
OPERATOR STERLING DRILLING & PRODUCTION CO. AGENT HARRY L. BERGER
ADDRESS 150 GRAND ST., 4TH. FLOOR ADDRESS 710 VIRGINIA ST. E.
WHITE PLAINS N.Y. 10601 CHARLESTON, WV 25301

12/01/2023