

1)	Date:_	November	3	, ₁₉ 83
21	Operat	0=10		

Well No.

3) API Well No.

State

County

Permit

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

				A	PPLICA	HON FOR A WE	LL WORK PERMI	T	
4) WELL TY	YPE: A C	oila <u>w</u> a		as)	(10/	ONS (IE ANY)	LITIGUOS GIA	DIFICATIONS A	OM TIMETE
	B (1	If "Gas",	Productio	n	X	_/ Underground	d storage	/ Deep	_/ Shallow X/)
5) LOCATIO	ON: Ele	evation:	10	70.31	L	Watershed:	Beech Fork		/)
								Quadrangle:	7.5' Tariff
6) WELL OF	PERATOR	Sterl-	ing Dr	illir	ng & P	rod. Co., I	no. DESIGNATE	DAGENT Harry	L. Berger, Jr.
Addres	ss <u>36</u>	0 Mad	ison A	ve. F	ifth	Floor	Address	710 Virginia	
	Ne	w York	, New	York	100	17		Charleston,	
8) OIL & GA	AS INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C		
Name	Deo Mac	e					Name UI	NKNOWN AT THIS	S TIME
Addres		t. 1 [- 4		Address		TOP (IS) NV
	S	andric	ige, W	.V. 2	25274				Sea of
0) PROPOSI	ED WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	19196
			Plug o	ff old	formation	Perfo	orate new formation	n/	NOV 4 - 1983
						n well (specify)			NOV 4 1303
1) GEOLOG								And the second	
						fee			OIL & GAS DIVISI
						feet; sal	lt,	feet.	DEPT. OF MI
					0	Is co	oal being mined in th	e area? Yes	/ No/
5) CASING	AND TUBI								
CASING OR TUBING TYPE			Weight	S		FOOTAGE	INTERVALS	OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	0. 5.40	1.0	22//	V		2001	0001		Kinds
resh water	9 5/8	LS	33#	X		300'	300'	To Surface	by rule 15.05
coal	7"	1 55	20#	V		00001	00001		Sizes
roduction	4 1/2	J-55	20#			2230'	2230'	100 sks	OR AS REQ BY
ubing	4 1/4	ERW	10.5#	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N 1140 CONTRACT	5450'	250 sks	Depths set 2 2 3 7
iners						732 O 3GO 6	X PATERIAL		RULE 13.0
		annihaa	andi ori	Jagin.	diam of the		San	1.7.	Perforations:
	1 C 1 C			7	1	-8 - 1015 122 1C	H6. U.S.1. III 2518D	15 hinst 61 st (c	Top Bottom
1 1 1 K	1000								
							29.561		
				Anne At					
				V CAR AN		OFFICE USE	ONLY		- 00/1909 dailering/
				**		DRILLING PE			The many that the same
ermit number_	47-01	3-3666						Mari	benaiz staned
- Indinoci		HAY AV						Date	rember 21, 19 83
his permit cove	ering the we	ll operato	r and well	locatio	n shown	helow is evidence	of permission grant	Dav	ce with the pertinent legal re-
in chients subje	ct to the co	natuons c	ontained i	nerein a	na on the	reverse hereof No	otification must be a	iven to the District Oil	and Carlana in in a
o. O) I HOI to ti	ne construct	TOU OF LOS	ius, iocau	ons and	DIES FOR 8	ny permitted work ork has commence	In addition the w	ell operator or his cont	tractor shall notify the proper
									as november and Market
e permitted wo verse hereof.	ork is as des	scribed in	the Notice	e and A	pplication	, plat, and reclam	ation plan, subject t	o any modifications ar	nd conditions specified on the
rmit expires _	No	ovembe	r 21,	1985		unless wall	l work is some	milian en els controls de la control de la c	A HOUSE ON
						unless well	work is commenced	prior to that date and j	prosecuted with due diligence.
zimi expires _		1							OTHER INSPECTIONS
		/ _							
Bond Bu	Agent	\\ \P	lat:	Casin	g	Fee			
	ND Agent	n	Plat:	Casing	1			-10	1000
	ND Agent	o m	Plat:	Casing	1	725	-	70	

05/17/2024 File

Reason:





OFFICE USE ONLY

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

							CITAGOL
Africal 'a.	Onadrangle		County, Call				
L. Berger, Jr.		. DESIGNATED	00.00 Im			SRATOR STE	WELL OP
12.32	210 Tipairi			9 danta 19			Address
4.6. 25301	Lips of Lastil						
	NTRACTOR.	DRULING CO		dal		SINSPECTOR	OLD & GAL
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W WENT				L. 25274	.W. Jegoja		
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					PORMATION.	CALTARGET	CECLOCM
OU & GAS DIVIS					iplered well.		
Man TOTA		3 CH 200					
O/A American		being mined in the			depths.		
						ND TUBING P	CASING A
PACKIES	CEMBAL BILLING CONTROL		FOOTAGETE		SPUCIFICATIONS Walsh :		SING OR
	(Mag) histor(X)	flow fit Alast		health world.	ide per ft	no k asia	
(Xinds							Tulique
By rate 15:05	To Surface					7 10 10 13	
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THE IN SEE STO WAS							action a
रिस प्रकार से प्रव	208 085	OFFI	OF LICE ONLY				
18 45 Red BY	260.616	OFFI	CE USE ONLY				1
ROLE 15,0	2/2/12/12/2						
ROLE 15,0	b) is to record th				w-up inspecti	ons.	
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ROBLE 15,0	b) is to record th				w-up inspecti	ons.	
his part of Form IV-2(t	b) is to record th	e dates of certa	in occurrences a	and any follo			
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his part of Form IV-2(to application received elements) Vell work started elements of the drilling rocess Vell Record received	VOW T gr T	Date Date Y.IM Date A principle of the principle of t	Follow-u	and any following inspection(rator and weil to	Date Output Da	(a) In number & permit wever ments subject to the subject of and gard.
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See the reverse side of the APPLICANLES COPY for instructions to the well operation.

HILE COPY

FORM IV-2(A) 1) Date: November 3 Obverse 2) Operator's [8 - 83]Well No. 851 3) API Well No. 47 - 0/3 - 366 State County Permit STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS NOTICE OF APPLICATION FOR A WELL WORK PERMIT 4) SURFACE OWNER(S) OF RECORD TO BE SERVED 5(i) COAL OPERATOR UNOPERATED (i) Name | Sam O. Thompson Address Address Milo Rt. Box 17 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD: Linden, W.V. 25256 (ii) Name Name **UNKNOWN** Address Address (iii) Name Name Address Address 5(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Address TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents: (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the Well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program; (2) The plat (surveyor's map) showing the well location on Form IV-6; and (3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road. NOV 4 - 1983 THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY OIL & GAS DIVISION ACTION AT ALL. Take notice that under Chapter 22 of the West Virginia Code, the undersigned well op-erator proposes to file or has filed this Notice and Application and accompanying documents EPT. OF MINE for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia

Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes

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

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

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 3 day of November . 1983				
My commission expires May 10, 1989.				
4 avial M. Stilleship				

County,

Notary Public, Kanawha

State of West Virginia

OPERATOR Sterling Drilling & Prod. Co., Inc. erger Its Designated Agent 110 Virginia St., Charleston, W.V. Telephone 342 - 0121

05/17/2024

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that-

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
Ottice Brannon Arnoldsburg Rd. Spencer, W.V. 25276	Sterling Drilling and Prod. Co., Inc.	1/8	080/246

851, 852,853 <u>051</u> 894

	(See Reverse)	The military
	Sent to SAM O. THOMPSO Street and No. MILO RT. BOX 17	nN .
	P.O., State and ZIP Code LINDEN, W.V, Postage	
	Certified Fee	\$7/
	Special Delivery Fee Restricted Delivery Fee	
2	Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom, Date, and Address of Defred	60
Feb. 198	TOTAL Postage and Fees Postmark or Date	206
PS Form 3800, Feb. 1982	25,301 44	
PS Fc	The state of the s	



OIL & GAS DIVISION DEPT. OF MINES

		i diam	n North Color	vina Lie
(Rev 8-81) DECEIVED 1 200	THE STATE OF THE S	Operate	May 14, 1	984
inte of M	est Mirnir	in Well No	0.	851
1 2 400 4	A STATE OF THE PARTY OF		Branno	n
OIL & GAS DIVISION Wil und G	s Bivision		. 47 - 0	19373
DEPT. OF MINES	es Superior	on a	ranes 7 Res	
DRILLING, FRACTURING AND/OR ST		OP DUVETON	T CUNNCE	
President Project Si	I-IOTAL IIVG,	OK PHISICA	L CHANGE	
WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergr	ton/ Was	te Disposa ge/ Dee	1_/ p/ Sha	allow_X_/)
LOCATION: Elevation: 1070.31 Watershed	Beech Fork	the dean of		
District: Washington County Cal	houn	Quadrangl	e Tariff	7½'
The Grant Ropel 1998 12 15		State .	pas depa	MILIA II
			2012	ban 1
COMPANY Sterling Drilling & Production Co., Inc.				
ADDRESS 710 Virginia St., E, Charleston, WV	Casing	Used in	Left	Cement
DESIGNATED AGENT Harry L. Berger, Jr. 25301	Tubing	Drilling		fill up
ADDRESS 710 Va. St., E. Charleston, WV 25301	Size	billing	TI WELL	Cu. ft.
SURFACE OWNER Sam O. Thompson	20-16		5/5/55	1.64
ADDRESS Milo Rt, Box 17, Linden, WV 25276	Cond.			2.02
MINERAL RIGHTS OWNER Ottice Brannon, etal	13-10"		onsc.	1 6.6
ADDRESS Arnoldsburg Rd., Spencer, WV 25276	9 5/8	301'	301'	110 sks
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8			
The state of the s	7	2297'	2297'	200 sks
Made ADDRESSRt. 1,Box 5, Sundridge,	5 1/2	100	in M	SA (1.57)
PERMIT ISSUED November 21, 1983 V 25274	4 1/2		5424	320 sks
DRILLING COMMENCED March 8, 1984	3		0121	020 3K3
DRILLING COMPLETED March 14, 1984	2	\$1,696	- 16 - GM- 12	1177
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners	g (add	and end	
CN	used			100
GEOLOGICAL TARGET FORMATION Devonian Brown	Chala	Dank	96082	1141
Depth of completed well 5440 foot	Potage C		n 5450	reet
Depth of completed well 5440 feet			10015	
Water strata depth: Fresh 240 feet;				
Coal seam depths: NONE	_ Is coal	being mine	ed in the	area? NO
OPEN FLOW DATA				
Producing formation Devonian Brown Shal	e Pay	zone dept	h3298'-52	294' feet
Gas: Initial open flow Show Mcf/d	Oil: Ini	tial open	flow	Ph1 /a
Final open flow 246 Mcf/d	Fir	al open fl	C: Show	Dh1/d
Time of open flow between ini	tial and fi	nal tests	.Ow	BDI/d
Time of open flow between ini-	mar and II	rat tests	0 57	1772024
Static rock pressure 850 psig(surface)	e measurem	ent) after	48 hou	rs shut in
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	h	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d	Oil: Fin	al open fl	OW	Bbl/d

Time of open flow between initial and final tests_

psig(surface measurement) after

Static rock pressure

hours shut in

hours

THE OF DEPENDATED INTERMALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC.

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

MPANY			ADDRESS	3666	13.	
RM						
ing Material Used				Wing	ATC.	
er Loc	cation	Amount	Packer	Location	1	***************************************
	ND DEPTH PLACED		BRIDGES	CASIN	G AND TUE	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
West &	120 14	a				
Charles 5.	126 14	8		2/15	10/11	
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DATE	neteby certify I v	isited the abov	e well on this date.			
mark.	h 22 11			DIST	RICT WELL IN	SPECTO»
	• • •		The second secon		05/1	7/2024
					UJ/ I	ロノロノサ
			By: Laws	J. De		1

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 and, encountered in the drilling of a well."

TMS/nw



State of West Virginia

Bepartment of Mines

Gil and Gas Bivision

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 22, 1984

		May 22, 198	4				
	COMPANY	Sterling Drilling & Production	PERMIT NO _		013-366	66	(11-21-83)
	710 V	'irginia Street, East	FARM & WELL	NO	Ottice	Brann	on #851
	Charl	eston, West Virginia 25301	DIST. & COU	YTV	Washing	gton/C	alhoun
	D	DEG OR I DET OV			COMPLIA		
	RULE	DESCRIPTION		YES	<u> </u>	NO	
	23.06 25.04 25.03 16.01 15.03 15.02 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent Was High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gathering Well Records on Site Well Records Filed Identification Markings	g Pipelines				
	I HAVE IN	NSPECTED THE ABOVE CAPTIONED WELL AND RE		0			
			SIGNED 6	11	27.	ace	_
			DATE	? (27.	85	
1	with Chap	l record was received and reclamation recter 22, Article 4, Section 2, the above for the life of the well.	equirements as well will reached with a second with a seco	ema	in under	r bond	6
		h.		ly Z ATE	3, 1985	05/1	 7/2024

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

1.0 API well number:	i i i i i i i i i i i i i i i i i i i	L OW LOTTEL	ACT (NGPA)	
(If not assigned, leave blank, 14 digits,)	47	- 013 - 36	66 -	
20 Type of cetermination being sought:		010 00	A.	5
Use the codes found on the front	1		16.50	1/ADA
of this form.)		107	11111	36/11/20
3.0 Depth of the geepest completion		Section of NGPA	Category Said	
location: (Only needed if sections 103				-
or 107 in 2.0 above.)		5440	. /	MAYIN
Control of the Contro			feet	7 7 100
4.0 Name, address and code number of	Sterling Drilli Name 710 Virginia St.		O'c	MAY 1 7 1984
applicant: (35 letters per line	1 Sterling Drilli	ng and Product	ion Col bie &	GAC
msximum. If code number not	Name		TOS	20810110 Cm
available, leave blank.)	710 Virginia St.	Fact Arcado	Duilding	OF M. Seller
	Street	Lust, Arcade	bulluling	MINIS
		E201		*
	Charleston, WV 2	5301		
Location of this well: [Complete (a)	City		State Zio	Code
or (b).]	1		20	Code
(a) For onshore wells	Washin	gton District		
	Field Name			
(35 letters meximum for field .	Calhou	n		
name.)	County		-	
(b) For OCS wells:		S	tate V!V	-
1				
1	Area Name			
!			Block N	umper
!				
1	D	ate of Lause:		
	L 1	11111		
(c) Name and identification number	Mo.	Day Yr.	000	_
of this well: (35 letters and digits			OCS Lesse Number	
meximum.)		Brannon #851		
		11002		
(d) If code 4 or 5 in 2.0 spove, name	276			
of the reservoir: (35 letters				
(a) Name and code number of the				
purchaser. (35 letters and digits				
meximum. If code number not				
aveilable, leave blank.)	UN	DEDICATED		
(b) Dete of the contract:	Neme			-
1				Buver Coce
1		L1111		Ng pi
(c) Estimeted total annual production		Mo. Dev		
from the well:		NIG. DEV	Yr.	
the west:		7		
			Million Cub	c Fee
				-
	(0) 0		ici All Other	
	(a) Base Price	(b) Tax	Prices (Indicate	(d) Total or (a)
Contract price:			(+) or (-).]	(b) and (c)
As of filing cere. Complete to 3 S/M			1-1.1	
ecimel places.)	MBTU 5 7 7 8			
laximum Iswiul rate:				
As of filing and				
ecimel places.)	MBTU 5 7 7 8	1	1	
erson responsible for this application:	7			
	Hapry L. Berger, Ji	. 0		
Agency Use Only	native L. Berger, Ji		Designate	ed Agent
SECSIVED DY JUSTS JOSEPH				eu Agent
MAT 171984 1 1 7	Hany J. I	Riger &	Title	
eceived by FERC	gnature	1		
	May 14, 1984	/	204 240 034	
151 10 00 i De	te Application is Completes		304-342-012	21

PARTICIPANT	DATE: JUN 1 4 1984	BUYER-SELLER
WELL OPER	MATOR: Sterling Drilling & Production Co.	
FIRST PUR	RCHASER: Uncommitted	
OTHER:		
1	DETERMINATION FILE NUMBER APPROVED	
84051	17 .107.013: 3666	
	JUN -7 1984 The Number on all Communications to Determination of this Well	
Baselin area and a second and a	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
TEM NO.	ERC -121 Items not completed - Line No	
	V-1 Agent	
1	L-2 Well Permit	
	V-6 Well Plat	
,	V-35 Well RecordDrilling Deep	pening
6. IV	W-36 Gas-Oil Test: Gas Only Was Oil Produced?	Ratio _
7. 1V	V-39 Annual Production years	
8. IV	V-40 90 day Production Days off line:	
	V-48 Application for certification. Complete?	
	V Form 51 - 52 - 53 - 4 - 55 - 56 - 57 - 58 Complete?	
18-28. Ot	ther: Surveylogs Geological Charts	
	Structure Map 1: 4000 Map Well	l Tabulations
(5) Da	ate commenced: Date completed I	
(5) Pr	roduction Depth:	
(5) Pr	roduction Formation:	
(5) Fi	inal Open Flow:	
	fter Frac. R. P.	•
(6) Ot	ther Gas Test:	
(7) Av	vg. Daily Gas from Annual roduction:	
	vg. Daily Gas from 90-dey ending w/1-120 days	
		PSIG from Dealy
	Production: From Completion Report	0E/47/2024
		05/17/2024
	s affidavit signed? Notarized?	
	cial well record with the Department confirm the submitted info	
	Does computer program confirm	
Ziii Beite	ination Objected to By Whom?	
		\

Date May 14, 1984

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Brannon #851

API Well No.

47 - 013 - 3666 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Se	ection 10/
	DESIGNATED AGENT Harry L. Berger, Jr.
	ADDRESS Arcade Building; 710 Virginia St.,
	Charleston, WV 25301
WELL OPERATOR Sterling Drilling and Produ Co ADDRESS 710 Virginia St., East Charleston, WV 25301	LOCATION Elevation 1070.31 ction Watershed Beech Fork ., Inc. Dist. WashingtorCounty Calhoumuad. Tariff Gas Purchase
GAS PURCHASER UNDEDICATED	Contract No
ADDRESS	Meter Chart Code
	Date of Contract
ndicate the bottom hole pressure of the Bottom Hole Pressure. PSIA Pf = Pwe	well and explain how this was calculated.
= 60 + (0.0075 x 5440) + 459.67 =	$\frac{560}{6} \times \frac{1}{53.34} \times \frac{560}{1.09} = \frac{1}{947} \times \frac{1}{9514}$
AF	FIDAVIT
vonian Shale as indicated by a Comme	first sworn according to law, state that ge of the producing interval which is not vindex of less than 0.7 if a Gamma Ray log ()(A) has been filed, or as indicated by the

I, Harry L. Berger, Jr., having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not described in subparagraph (3)(i) 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) not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

STATE OF WEST VIRGINIA

COUNTY OF Kanawle, TO-WIT:

Given under my hand and official seal this 14th day of May, 1984.

My term of office expires on the 27 day of October, 1991.

(NOTARIAL SEAL)

Notary Public

FORM IV-48WC [12-78]	STATE OF WEST VIRGINIA	Sate May 14,
	DEPARTMENT OF MINES, OIL AND CAS DIVISION	'Deres se's
		Brannon #851
		No. 47 - 013 - 3666
	STATE APPLICATION FOR WELL CLASSIFICATION	State County Permit
		Previous File No. (If Applicable)
WELL OPERATOR Sterling D	rilling and Production	
ADDRESS 710 Virginia S	t., Edst	Harry L. Berger, Jr.
Charleston, WV	25301 Arcade Building	rilling & Production Co., Inc. Charleston, WV. 25301
Gas Purchase Contract No.		Charles con, WV. 25501
Meter Chart Code	(Month, day and ye	ar)
Name of First Purchaser	UNDEDICATED	
_		
70	(Street or P. O. Box)	
FERC Seller Code 0180	384	Code)
TYPE OF DETERMINATION BEING	FERC Buyer Code	•
_	ion (See FERC Form 121.) Section of NGPA	
(2) Determination that recovery technolog		Category Code
	seasonally affected well.	
	Harry L. Berger,	₽Agent
	Name (Print)	Title
	Signature .	159
	Sterling Drilling &	Production Co., Inc.
	Arcade Bldg., Char	
	City State	(Zip Code)
	(304 342-0121 Phone Number	
(Canada)	Code	
(Certificate of Proof of Sep	rvice to Purchaser)	
	그 이 발표를 모르는 것이 되고 그 생각을 되었다.	
(All of the above to be comp	leted by the Operator/Applicant)	
(To be completed by Jurisdic	tional Agency. Executed copy to be returned to	0
The December	training the second of the sec	
well as meeting the requirement (NGPA); [lor for determination index Section 108 of (NGPA);	of Mines has received a request. for certification of Section under the Natural tion that increased production is the result of or for determination of a seasonally affects	cation of the above described al Gas Policy Act of 1976 enhanced recovery technology
All interested part	or for determination of a seasonally affect	ed well under Section 198 of (NG)
he office of the Oil and Gas be heard there will be a publ	ies are hereby notified that on the day of Division in Charleston, West Virginia, or as sic hearing, if requested, or if objection is fi	oon thereafter as it may
	assigned File No	led.
Initial manion of t		T is not
s the matter may be heard.	ill be made at the time appointed for a public	. A review of this evidence hearing or as soon thereafter
Unless objections	re timely filed or a request for a hearing is meld except on ex parte motion of the department	
	WEST VIRGINIA DEPARTMENT OF	
MAY 1 7 1984		05/17/2024

Title

Date received by Jurisdictional Agency

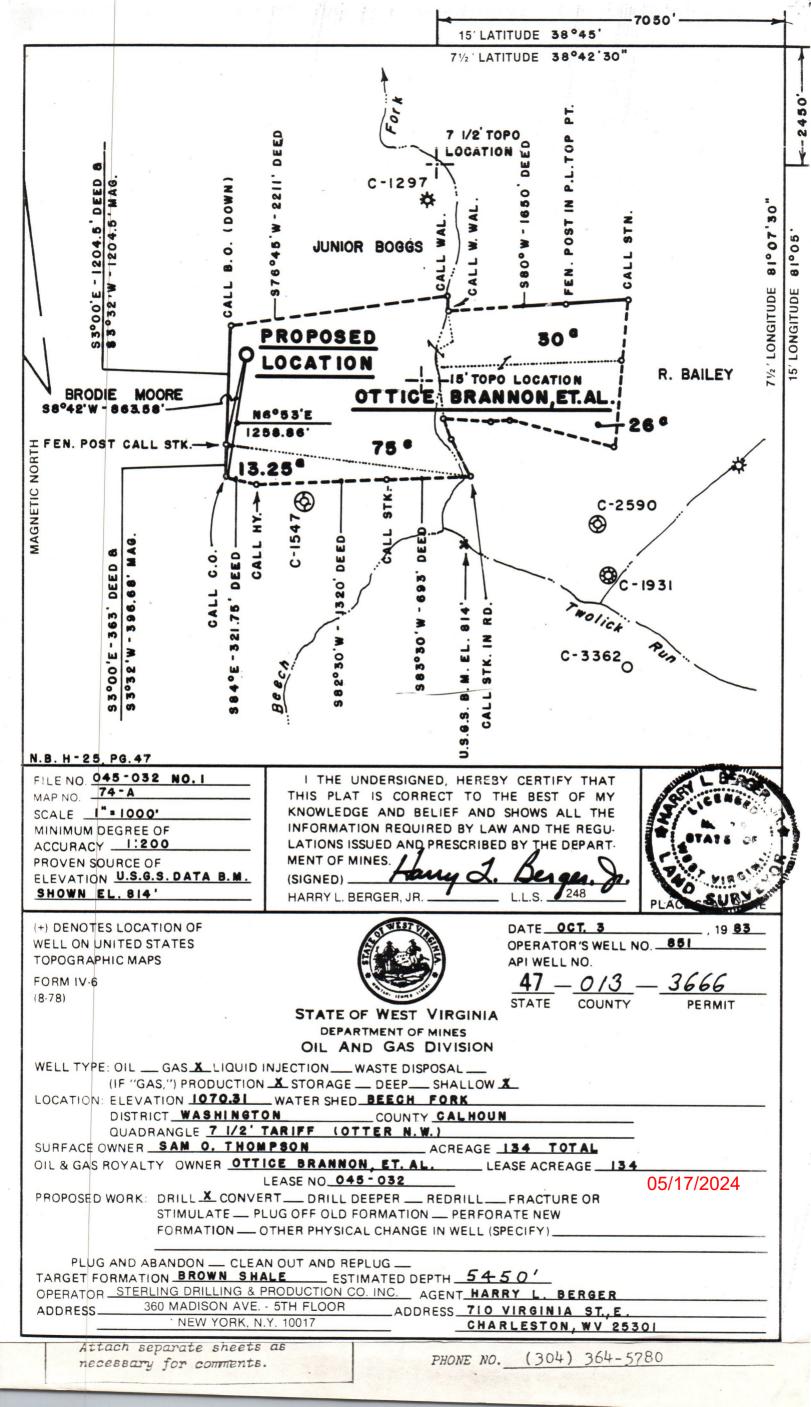
DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

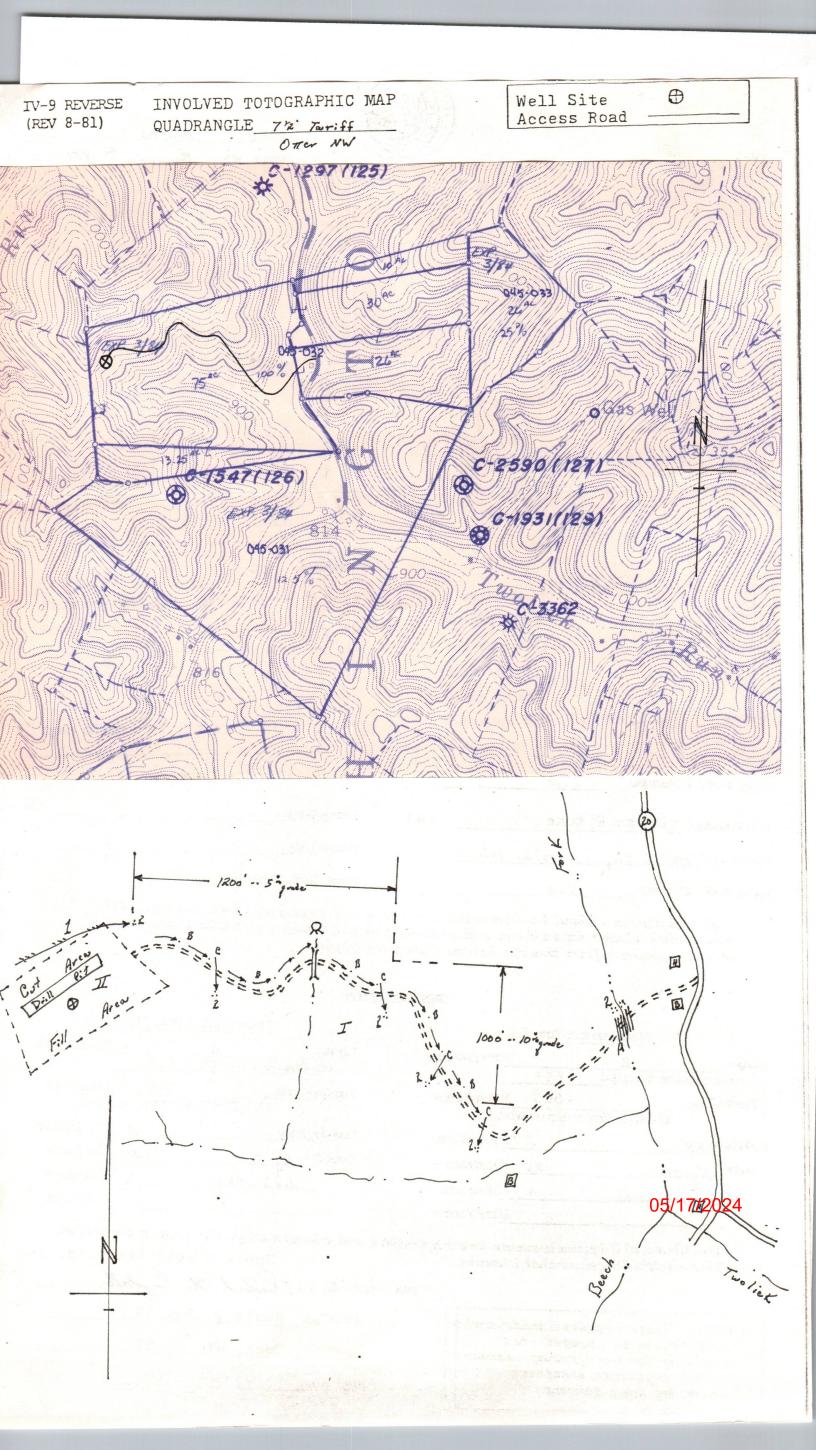
Operat	or:			Agent;		
Type I	eterminati	on being soug	ht - 107	(Dans)		
API We	11 No.: 4	7-013-366	(·	(Devonian	Shale)	
West V	iroinia Of	£: 5 0:5	0	Well Name:	Brannon	# 851
Refere	nces: SJA	fice of Oil an	nd Gas	County: _	Calhoun	
Vol	· Pag	e Line				
	Base	anma Ray Log he, (b) a line intervals wite Line) and the	h Gamma F at log is		(Share ba	Se Line)
	А.	Shale Base Li	ne (API U	nits)		
		 GR Value a Remarks: 5 	at Base L	ine = <u>175</u> 0-200 AP	- * API U	Inits
			٠			
	В. (Samma Ray Log	Value at	0 7		
	1	Gamma Ray Log GR Value = Calculation	$\frac{122.5*}{0.7}$ (PI Units	+ D	
III. In			,	1/0 ~1 =	/)) S ADT	** .
	Interv	th GR index 1ϵ		V./x (Val	ue at Base	Line):
Fre	om ⊁⊁	To***	Thickness of Inter	_ "	Feet of le .7 (Shale	ss than*
25	0.7	5444	Feet	-	ree	t Elle)
		3 17.4	2937		118'	,
	•					
	Total Dove					
otal less	The O	nial Interval	2937			
Tone mi	nan 0.7	(Shale Base)			118'	
Less Tha	in 0.7 (Sha	le Base Line)	=0,0401	x 100 = 4.	05/17	72024
•				•		

*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.





STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3666				r Gas Well
Company Sterling	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address	Size			
Farm Brannon / TOMPSON	16			Kind of Packer
Well No. 85/	13			Size of DOWATA
District Wash County Cal	-81/4 85/8	301	30/	Cemental 3-9.82
Drilling commenced 3-8-84	6%	0000	0 - + 5/-	Depth set
Drilling completedTotal depth	53/16- 7"	2297	200 SKS	CEMENT 3-11-84
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. in Inch				Perf. bottom
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FTDate
lock pressurelbshrs.	NAME OF SEF	RVICE COMPA	NY	
Dilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water <u>feet</u> <u>feet</u>	FEET	INCE	IES	FEETINCHES
alt water feet feet	FEET_	INCH	IES	FEETINCHES
Orillers' Names Hurt 8				
,	r markedina dia a dan yani markedini markedini na markedi a kata markedi a kilikum na markedi.			
Drilling Common out of	cosing,			

3-12-84

Wes M 85/17/2024

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.	The state of the s		and the second s	Wel	I No			
COMPANY			ADDRESS	3/9/2	13-			
FARM		DISTRICT	CC	OUNTY				
Filling Material Used				Min	, St.			
Liner Loc	eation	Amount	Packer	Location				
ere was made to the second of	AND DEPTH PLACED	72.41004116	BRIDGES 20 N.S.T.	7	G AND TU			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE LO			
- DADAL		6 50		1	1.10	n de manuel (greenes) en		
8 - L - C 2400 Marsh	130 10	0 0						
SCHOOL 3-11-84	97 2008	7" 22	and a second					
1								
						promprosite to the college configuration of growings (see		
Orillers' Names		And the second s						
Remarks:						,		
			8 =					
				9				
			and the Halling	Marin .	illin	2		
			week of certific					
	I harehy martists I -		ve well on this date.					
DAYE	Ceruiy I	ribited the abo	ve well on this date.					

05/17/2024

IV-35 (Rev 8-81) Date May Operator Well No.

MAY 1 7 1984

Department of Allines

Farm

OH & GAS DIVISION

Gil und Gas Division

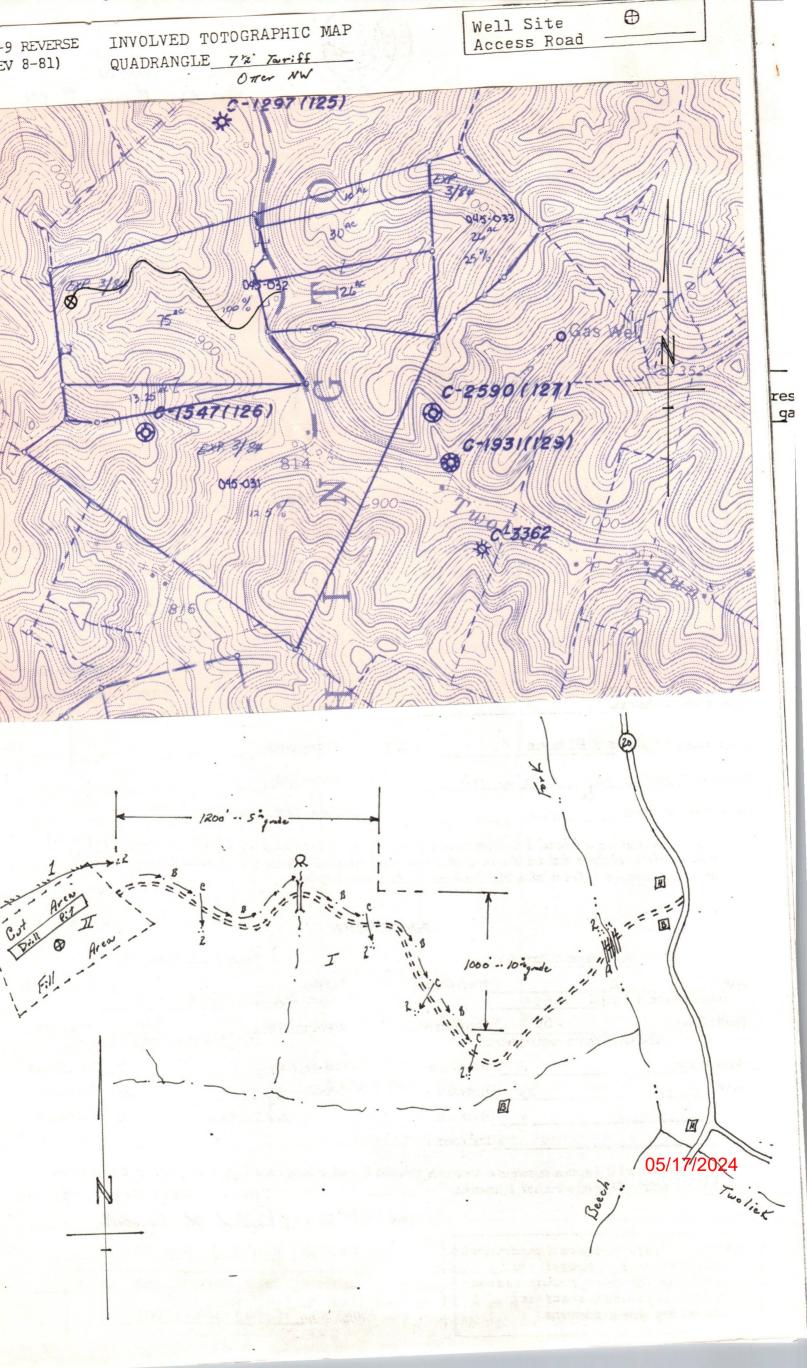
API No. 4

Date May 14, 1984
Operator's
Well No. 851
Farm Brannon
API No. 47 - 013 - 3666

DEPT. OF MINES

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIME	LATING, (OR PHYSICAL	L CHANGE	
WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Wast	ce Disposa ge/ Deep	1_/ p/ Sha	allow <u>X</u> /)
LOCATION: Elevation: 1070.31 Watershed B	eech Fork	his dress of		(0440)
District: Washington County Calho	un	Quadrangle	e Tariff	71/21
Old & rouse draid. I tale that the A				MILIATE TO THE PARTY OF THE PAR
70807				
COMPANY Sterling Drilling & Production Co., Inc.			E Hand	1,452
ADDRESS 710 Virginia St., E, Charleston, WV	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Harry L. Berger, Jr. 25301	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 710 Va. St., E. Charleston, WV 25301	Size	i in sec	nagrānoja	and in the same
SURFACE OWNER Sam O. Thompson	20-16 Cond.	No. of the last	L ABOUT BY	
ADDRESS Milo Rt, Box 17, Linden, WV 25276	13-10"		- hast	1150
MINERAL RIGHTS OWNER Ottice Brannon, etal	9 5/8	301'	301'	110 sks
ADDRESS Arnoldsburg Rd., Spencer, WV 25276	8 5/8	301	301	110 383
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7	22071	22071	200 alsa
Mace ADDRESSRt. 1, Box 5, Sundridge,		2297'	2297'	200 sks
PERMIT ISSUED November 21, 1983 WV 25274	5 1/2	-	5404	200
DRILLING COMMENCED March 8, 1984	4 1/2	-	5424	320 sks
DRILLING COMPLETED March 14, 1984	3	39 1 1 1 1 1 1	ora dina de	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2	-	Charle Co.	THE STATE OF THE S
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
CENTOCIONI ENDOCUE ENDOCUENTO			16160	VIDE T
GEOLOGICAL TARGET FORMATION Devonian Brown				
Depth of completed well 5440 feet I				-
Water strata depth: Fresh 240 feet;	-			
Coal seam depths: NONE	Is coal	being min	ed in the	area? NO
OPEN FLOW DATA				
Producing formation Devonian Brown Shale	Par	y zone dep	th3298'-5	294' feet
Gas: Initial open flow Show Mcf/d			-	
Final open flow 246 Mcf/d				
Time of open flow between initi				
Static rock pressure 850 psig(surface		_		
(If applicable due to multiple completion-		icito, arac	1 400/ 1110/2	ma-siluc III
Second producing formation		zone den	th .	Foot
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between initial		A STATE OF THE STA		
Static rock pressure psig (surface	measureme	ent) after	hou	ers shut in



IV-35		Date N	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	204
(Rev 8-81) TOPECE (NO. 1)		Operato	May 14, 19	184
tate m	f Mest Wirgin	in Well No		851
7 100 4	tment of Mines		Brannor	1
OH & GAS DIVISION OH un	d Gas Bivision	API No.	47 - 01	13 - 3666
TENT OF MINES	da Relición Capito			
MEIT Obl	ERATOR'S REPORT			
DRILLING, FRACTURING AND/OR	R STIMULATING, (OR PHYSICA	L CHANGE	
WELL TYPE: Oil / Gas x / Liquid In: (If "Gas," Production x / Und	jection/Wast derground Storag	te Disposa ge/ Dee	l/ p/ Sha	illow_X_/)
LOCATION: Elevation: 1070.31 Waters	hed Beech Fork	for drawn, s	den a	13,4401
District: Washington County	Calhoun	Quadrangle	e Tariff	7121
TOTAL STORES AND RELIEF TO THE		Starte in	Date of the	g 1 La 17
COMPANY Sterling Drilling & Production Co	Inc.			
ADDRESS 710 Virginia St., E, Charleston, W		Used in	Left	Cement
DESIGNATED AGENT Harry L. Berger, Jr. 25301	Tubing	Drilling		fill up Cu. ft.
ADDRESS 710 Va. St., E. Charleston, WV 253		51882	na ar éso te	- mari
SURFACE OWNER Sam O. Thompson	20-16		5 6 6 7 7 7 7	Lind 1
ADDRESS Milo Rt, Box 17, Linden, WV 25276	Cond.		hnec	1162 ·
MINERAL RIGHTS OWNER Ottice Brannon, etal	13-10"			
ADDRESS Arnoldsburg Rd., Spencer, WV 25276	9 5/8	301'	301'	110 sks
OIL AND GAS INSPECTOR FOR THIS WORK Dec	8 5/8	-		
Mace ADDRESSRt. 1,Box 5, Sundride	7	2297'	2297'	200 sks
PERMIT ISSUED November 21, 1983	5 1/2	1, six	100	will the
DETLITIC COMMENCED March 9 1004	4 1/2		5424	320 sks
DRILLING COMMENCED March 8, 1984	3		a se egitar	0/07
DRILLING COMPLETED March 14, 1984		37,650	The winter of	Paralle S
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners			
CENTOCICAL TRADCETT EXPANDITON			9005	1112
GEOLOGICAL TARGET FORMATION Devonian				
Depth of completed well 5440				
Water strata depth: Fresh 240				
Coal seam depths: NONE	Is coal	being mine	ed in the	area? NO
OPEN FLOW DATA				
Producing formation Devonian Brown	Shale Pay	zone dept	h3298'-5	294' feet
Gas: Initial open flow Show Mc				
Final open flow 246 M				
The second				
Static rock pressure 850 psig(s	surface measurem	ent) after	485/1 ⁴ 792	7524 hut in
(1) applicable due to multiple compi	letion)			
Second producing formation	Pay	zone dept	h	feet
Gas: Initial open flow Mc	cf/d Oil: Ini	tial open	flow	Bb1/d
	of/d Oil: Fin			Bbl/d
Time of open flow between	initial and fi	nal tests	ho	urs
Static rock pressure psig(s)				

PHONE NO. () OTT)

Attach separate sneets necessary for comments.

IV-

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