

1)	Date: Nove	mber 3	100	, 19	83
,	Operator's Well No	853			
3)	ADI Well No	47 -	013 -	3668	C16.4.751

County

Permit

State

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

		******			_	IILICA	TION FOR A WE	DE WORTH I BILLIAM		
V	VELL TY	PE A C	ila 77 a s	120/G	as X	1 07	ONS HE ANY	AND CONDICE	ODINGATIONS	DEDIKHT M
	LLL III									_/ ShallowX_/)
I	OCATIO							Beech Fork		_/ Shanow/)
	OCATIO								Quadrangle: 7	5' Taniff
V	VELL OP	FRATOR	Sterl	ing Dr	illi	na & F	Prod Co	INC DESIGNATE	DAGENT Harry	L. Berger, Jr.
	Address	360) Madi	son Av	e. F	ifth F	loor	Address	710 Virginia	
	1144100			, New				11441633	Charleston,	
C	II & GA	S INSPEC						9) DRILLING C	The second section of the second section of the second section of the second section of the second section sec	
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	11441000		The second second	ge, W.	V. 2	5274		71447033		16/5/1V
D	POPOSE	D WELL				_/ Drill	deeper	/ Redrill	/ Stimulata	Canada Cara Cara Cara Cara Cara Cara Cara C
Г	KOFOSE	D WELL	WORK.					rate new formation		
								rate new formation		NOV 4 - 1983
-	EOI OGI	CAL TAR	CET FOR							1107 1 1000
		ated depth					feet			
	1							t,	fact	OIL & GAS DIVISION
14	Appro	ximate trat	l seem de	the		0	icci, sai	oal being mined in the	ICCI.	DEPN.T. XPF MI
		ND TUBI				U	18 00	oar being mined in the	carea: res	
		II IUBI					FOOTICE	INTERVALE	II CEMENT PULL	
	G OR			Weight	1			INTERVALS	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
duct		6 - 1-								Kinds
h wa	ter	9 5/8	LS	33#	X		375'	375'	To Surface	by RULE 15.05
1		711	,	00"						Sizes
rmed		7"	J-55	20#	X	100	2280'	2280'	100 sks	A = 13 E 13 B V
ducti	on	4 1/2	ERW	10.5#	X			5525'	250 sks	Depths set RULE 15.0
oing							ATIANTAGE	191140		
ers										Perforations:
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						THE RESERVE OF THE PARTY OF THE	OFFICE USE		5 × 1 300 × 1	
							DRILLING PE	KMIT		Well work started
nit	number_	47-	013-36	568		5177			Nov	vember 21, ₁₉ 83
									Date	Completion of the drifts
s pe	rmit cove	ring the we	ell operato	or and well	location	on shown	below is evidence	of permission grante	ed to drill in accordance	ce with the pertinent legal re-
reme	ents subje	ct to the co	onditions o	contained l	herein a	and on the	e reverse hereof. N	otification must be g	iven to the District Oil	and Gas Inspector, (Refer to
									ell operator or his cont	ractor shall notify the proper
							ork has commence			
per	mitted wo	ork is as de	scribed in	the Notice	e and A	pplicatio	n, plat, and reclam	ation plan, subject t	o any modifications ar	d conditions specified on the
		Nov	rember	21, 1	985			l work is some	mujou to that day	
IIII (expires _			en e			unless wel	i work is commenced		prosecuted with due diligence.
		erre.	. /			L				OTHER INSPECTIONS
	r DAN	Agen	F	Plat:	Casin	ig -	Fee			
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ond	I DUI	- Ki	1 20	n// :	m	5	825	7	M	
VE.		ne copy of	y 30	'A'				Admi	inistrator, Office of O	and Gas

FORM	IV-2(B)
Reverse	

FILE COPY 2 10181390 (C

Administrator, Office of Oil and Oils



OFFICE U	SE ONLY
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				A	"Gas", Production		
797 van (8.	Quadrangle: 7	Reech_Foot	. Watershed _ County:63		ation: <u>15020.00</u> on issifact	ION: Elev Disu	LOCAT
L. Rerecht Or		UC. DESIGNATED			ing publicati		WELL
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<u>VVII</u>						GICALTARD	
				£850			
OIL & GAS DIVE	feet		distantia			or oxignate trata	
DER, T. OF M	aren? Yes	al being maned in the			eam depthst	roximpte coals	14) AD
					G PROGRAM	NIAUT ONV!	GASUN
PACKERS	CEMENT HILLUP OR SACES		T WEATOOR		SZECIPIOARTONS T Welefit a		SING OR
			Schillett 40 f	New Lister	Grade per ft.		
Kurds					+		
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700			10000		the last.		
SE SES SES	CO SUB DEC			T Ty	THE OR WOLL	179	
		OFFIC	E USE ONLY	7			287
Periorenous							
his part of Form IV-2(b) is to record th	e dates of certain	n occurrences	and any follo	w-up inspections	s.	
		Date				Date(s)	
							* * *
					(c)		i
Application received			Follow-u	ip inspection	(5)		
		NTA	Desugnit		(8)		
Well work started			Follow-u		(8)	V	
Vell work started			Desugnit		13-3668	J-73 ³ =	
Vell work started	ng	TIMS	RIGING PE	d "	13-3668		
Vell work started Completion of the drilling	ng)	RMIT	RILING PE	O ,,	A.S 3008 operator and well b	wering the well	permit co
Vell work started Completion of the drilling	ng	RMIT If permission granter Objection rates the el-	PORCE USE (TRICE PE) Coverse hereof, but Coverse	O ,,, o o o o o o o o o o o o o o o o o	A.3-3008 operator and well be disjons confained her	vering the well oject to lise con the constructi	permit co ensents sur 8) Prick to
Vell work started Completion of the drilling rocess	t to drill in accordance in the control of the cont	RMIT if permission granted threaten must be el- in addition, the we	HEO ENTERNATION OF THE PROPERTY OF THE PROPERT	Ocal' na shown to cin and on the rack, pits for an all for an all permitted wo	13-3008 oberator and well be thions contained he are contained he are the area of the area	vering the well ofect to the com wife constructly gas hispoctor.	permit or entents sur 3) Prob to tot oil and
Vell work started Completion of the drilling rocess Vell Record received	t to drill in accordance in the control of the cont	RMIT If permission granter Objection rates the el-	HEO ENTERNATION OF THE PROPERTY OF THE PROPERT	Ocal' na shown to cin and on the rack, pits for an all for an all permitted wo	13-3008 oberator and well be thions contained he are contained he are the area of the area	vering the well ofect to the com wife constructly gas hispoctor.	permit co sments sur 3) Front ict oil and per mitted
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Completion of the drilling	Dgn to drill in accordance rate the District Off operator or his cone any modifications an	RMIT I permission granted Operation mission granted of addition, the wells, i.)	RICE USB (RICELING PE) coverse force? We coverse force? We coverse force? We coverse force of ple, and redains	Ocal' na shown to cin and on the rack, pits for an all for an all permitted wo	operator and well be distoned to the contained be no attended to the contained be ribed in the Notice and the N	vering the well ofect to the com wife constructly gas hispoctor.	entents suit 8) Frink ti net oil and

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

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

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

1) Date: November 3 ,1983
2) Operator's

Well No.

853

3) API Well No. 47 - 0/3 - 3660 State County Permit

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

	NOTICE OF APPLICATION FO	R A WELL WORK PERMIT
	CE OWNER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR UNOPERATED
(i) Na	ume Sam O. Thompson ddress Milo Rt. Box 17	Address
	Linden , W.V. 25256	5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
(ii) Na	me	Name UNKNOWN
Ad	dress	Address
(iii) Nar	me -	Name
	dress	Address
		5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
		NameAddress
		1 mult 622
	TO THE PERSON(S) NAMED ABOVE: You should have	e received this Form and the following documents:
	to be plugged, which sets out the new	it on Form IV-2(B) (or Form IV-4 if the well is
	cementing program.	and it applicable, the proposed casing and
	(2) The plat (surveyor's map) showing the (3) The Construction and Reclamation Plan	
	reclamation for the site	for erosion and sediment control and for
	THE REASON YOU RECEIVED THESE POTABLES A	OIL & GAS DIVISION
	WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. ACTION AT ALL.	THE REVERSE SIDE OF THE COPY OF THE APPLICATION PT. OF MINES HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY
	Take notice that under Chapter 22 of the	West Virginia Code, the undersigned well op-
	for a Well Work Permit with the Administration	ce and Application and accompanying documents
	and depicted on attached Form N/6 Coming	the location described on attached Application
	Construction and Reclamation Plan have been ma by hand to the person(s) named above (or by pul before the day of mailing or delivery to the Ac	by registered or certified mail or delivered
	6) EXTRACTION RIGHTS	
	Check and provide one of the following:	
	Included is the lease or leases or other I hold the right to extract oil or gas The requirement of Code 22-4-1-(c)(1) thr	continuing contract or contracts by which cough (4). (See reverse side for specifics.)
	/) ROYALTY PROVISIONS	
	Is the right to extract, produce or market to or other contract or contracts providing for for compensation to the owner of the oil or of the	the oil or gas based upon a lease or leases
	to the volume of oil or gas so extracted, pr	oduced or marketed? Yes No X
	If the answer above is No, nothing a you may use Affidavit Form IV-60.	dditional is needed. If the answer is Yes,
	See the reverse side for line item institute required copies of the Notice and Agreed Reclamation Plan.	ructions, and for instructions concerning pplication, plat, and Construction and
The trut	th of the information on the	WELL
Notice a	and Application is verified	OPERATOR Sterling Drilling & Prod. Co., Inc.
and swor	on to and the Notice is	// 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /
in my Co	on behalf of the Well Operator ounty and State by	By Harry J. Derger
	Harry L. Berger, Jr.	Its Designated Agent
this 3 d	day of November , 1983 .	Address 710 VirginiarSt., E. Charleston, W.V. 25301
Mycc	mmission expires May 10, 1989.	<u>Charleston, W.V.</u> 25301 Telephone 342 - 0121
Wa	wit M. Killeskie	
Notar	y Public, Kanawha County,	05/17/2024
state	of West Virginia	When Manager and Company and the second seco

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-la(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8 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:

Ottice Brannon Sterling Drilling & Prod. Co., Inc.
Arnoldsburg Rd.
Spencer, W.V. 25276 1/8 080/246

Eric R. Brannon Sam O. Thompson 851, 852,853 P 522 051 894

(See Reverse) Sent to SAM O. THOMPSOM	
Street and No. MILO RT. BOX 17	
P.O., State and ZIP Code LINDEN, W. V. Z	25276
Postage	\$71
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return Receipt Showing to whom	
TOTAL Postage and taes	0/204
TOTAL Postage and Faes Postmark or Days	2
Fort	



OIL & GAS DIVISION
DEPT. OF MINES

IV-35 (Rev 8-81)

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פונסו	(C)		1	V 5	. IUJ	B	PART STATES	200	Date	Aug	ust	31,	1984
M	30-	pett us	men /	7				<u> </u>	Opera	ator'	S	0.76.29	
777	CEP	1	0	1084	Sinte	nf	Mest	Hiromia	Well	No.	85	53	
	SLI	1	0	1304	0		-	(- 12)	The state of the s				

Operator's 853 Well No. Farm Ottice Brannon, et.

OIL & GAS DIVISION Beparlment of Mines API No. 47 - Q13 - 3668

DEPT. OF MINES Gil and Gas Bivision

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

LOCATION: Elevation: 1095.88' Watershed Bee	ch Fork			
District: Washington County Calhour		Quadrangle	e _{7.5' Tar}	iff
	!		•	
COMPANY C				
COMPANY Sterling Drilling & Production Co. Inc.		T		Cement
DESIGNATED AGENT Harry L. Berger, Jr. 25301	Casing	Used in	Left	fill up
ADDRESS 710 Va. St., E. Charleston, WV 25301	Tubing	Drilling	in Well	Cu. ft.
	Size 20-16			
SURFACE OWNER Sam O. Thompson ADDRESS	Cond.			
	13-10"			J. Charles
MINERAL RIGHTS OWNER Ottice Brannon, et. al. ADDRESS	9 5/8	378'	378'	Surface
The state of the s	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace	7	2270'	2270'	200 sks
ADDRESSRt. 1, Box 5, Sandridge, WV	5 1/2		102	
PERMIT ISSUED November 21, 1983	4 1/2		54741	320 sks
DRILLING COMMENCED March 16, 1984	3			
DRILLING COMPLETED March 22, 1984	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used	Acceptance of the second		
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	th 5525	feet
Depth of completed well 5541'KB feet R	otary x	/ Cable	e Tools	
Water strata depth: Fresh 112 feet;	-		***************************************	TO SECTION TO THE REPORT OF THE PROPERTY OF TH
Coal seam depths:	Is coal	being min	ed in the	area? No
OPEN FLOW DATA				
	Par	r rong don	th 26201	5/521 5 00 b
Producing formation Devonian Shale Gas: Initial open flow Mcf/d				
			-	
Final open flow 746 Mcf/d				
Time of open flow between initi	ar and r	mai tests	05 /1	7/2024
Static rock pressure 1200 psig(surface		ient, arte	r 90 nou	rs snut in
(If applicable due to multiple completion-				
		zone dep		The second secon
	Ull: In	itial open	ITOM	Bbl/d
Gas: Initial open flow Mcf/d Final open flow Mcf/d				The state of the s

FORM IV-35 (REVERSE)

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

Perforations:

Stage One: 28 holes 4816' - 5453' Stage Two: 24 holes 4309' - 4698' Stage Three: 26 holes 3630' - 4180'

Treatment:

Stage One: 24 bbls 15% HCL; 1780 MSCF N₂; BD 4000# Stage Two: 24 bbls 15% HCL; 1760 MSCF N₂; BD 3300# Stage Three: 24 bbls 15% HCL; 1780 MSCF N₂; BD 2840#

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
			All measurements 10'KB
Sandstone and Shale	0	1410	
Salt Sand	1410	1462	
Shale	1462	1560	
Sand	1560	1594	
Shale	1594	1640	
Salt Sand	1640	1743	
Sandy Shale	1743	1805	
Maxon Sandstone	1805	1850	
Shale	1850	1890	
Little Lime	1890	1927	
Pencil Cave	1927	1941	
Big Lime	1941	2093	
Big Injun	2093	2116	
Siltstone and Shale	2166	2424	
Sunbury · Shale	2424	2446	
Sandy Siltstone and Shale	2446	2787	
Grey Silty Shale	2787	4558	
Grey Sandy Siltstone	4558	4569	
Grey Shale	4569	4812	
Grey Siltstone	4812	4852	
Grey Shale	4852	4982	
Grey Siltstone	4982	5084	
Grey Shale	5084	5541	
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SA Sign			
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(Attach separate sheets as necessary)

Sterling Drilling and Production Co. 05/127/2024

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 OG-11



OIL & GAS DIVISION OIL AND GAS WELLS DIVISION

DEPT. of MINES

INSPECTOR'S WELL REPORT

Permit No. 13-30	668				Oil or	Gas Well
Company Ster	line		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address			Size			
Farm Brann	on Thom	psin	16			Kind of Packer
Well No			13			
District	County	and the second	81/4			Size of
Drilling commenced			6%			Depth set
		R	5 3/16			
Drilling completed			3			Perf. top
Date shot	Depth of sho	t	2			Perf. bottom
Initial open flow	/10ths Wa	ter inInch	Liners Used		7 2 12 2	Perf. top
Open flow after tubing_	/10ths Mer	c. inInch				Perf. bottom
Volume		Cu. Ft.	CASING CEME	NTED	SIZE	No. FTDate
Rock pressure	lbs	hrs.	NAME OF SER			Date
Dil	bl	bls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water	feet	feet	FEET_	INCH	ES	FEETINCHES
Salt water			FEET_			
Orillers' Names	Hut &				i _s	
	BOB	Reel	- Sterler	iej		
emarks:	95/8" ca	sing, L	Dowell	5 K	5 Ceme	ut, 3-17-84
No due	ulatur a	& all.	Ran 1	two bas	hets a	t going 200'
t a	opion.	60'.		7 + 0il	If from	Top.
May cu	ew wife	will 1	mix cemer	o fee	. //	/-
3-17-8.	4			(1)	es me	95/17/2024
		and the second second second				STORES LAND I

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT 4 10

COMPANY		ggill and relative supply growing all the research opening require growing and growing and the second	ADDRESS			t č,
FARM		DISTRICT				
Filling Material Used						
Liner Loc	ation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
						-
	-					
				district the state of the state		
			and the second s			
Orillers' Names		European was agreed to the control of the European State European State European State European State European			orden grand and an extension and an exte	the discussion of the second s
Remarks:		TO AREA Transmission (TAZES for given the content programping support response	onto ese manual atroque de monte de menos de proprie de la proprie de menos es estande en entre en estande de			NAME OF TAXABLE PARTY.
	I hereby certify I	rigited the above	ve well on this date.			
DATE						



State of West Birginia

Department of Mines Gil and Gas Bivision

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT September 24, 1984

	September 24, 19	704				
COMPANY	Sterling Drilling & Prod. Co.	PERMIT NO _		013-36	68 (11-21	<u>-8</u> 3)
710 V	irginia Street, East	FARM & WELL	NO	Sam O.	Thompson	<u>#</u> 853
Charle	eston, West Virginia 25301	DIST. & COUN	TY	Washin	gton/Calh	oun
			IN	COMPLIA	NCE	
RULE	DESCRIPTION	B B B	YES		NO	
23.06	Notification Prior to Starting Work					
25.04	Prepared before Drilling to Prevent Was	ste				_
25.03	High-Pressure Drilling	_				_
16.01	Required Permits at Wellsite	_				_
15.03	Adequate Fresh Water Casing					_
15.02	Adequate Coal Casing	-				-
15.01	Adequate Production Casing	_				_
15.04	Adequate Cement Strenght	·				_
15.05	Cement Type	_				_
23.02	Maintained Access Roads					_
25.01	Necessary Equipment to Prevent Waste	_				_
23.04	Reclaimed Drilling Pits	-				_
23.05						
23.07	Requirements for Production & Gathering	g Pipelines	2.			_
16.01	Well Records on Site	_				_
16.02	Well Records Filed	_				_
7.05	Identification Markings	_				_
		_				_
I HAVE IN	NSPECTED THE ABOVE CAPTIONED WELL AND RI	ECOMMEND THAT	IT	BE REL	EASED:	
		6)	m	7 -	
		SIGNED	ell	, 1///	see	_
		DATE 6		27-	85.	<u>.</u> *
Your well	l record was received and reclamation re	equirements a	ppr	oved. I	n accorda	nce
with Char	pter 22, Article 4, Section 2, the above	e well will r	ema	in unde	r bond	
coverage	for the life of the well.				1	
		1				
		1-1	-	-	1	
		Administrato	r-0	il & Ga	s Divisio	n
		Jul	Ly 3	, 1985		_
		D	ATE			

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

PRICE	UNDER THE NATURAL GAS POLICY ACT (NGPA)	
1.0 API well number: (If not assigned, leave blank, 14 digits.)	47 - 113 - 3668 -	TOTAL CONTRACTOR STATE OF THE S
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	1 107 Section of NGPA Category Code	
3.0 Depth of the decoest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5541 feet	
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Sterling Drilling and Production Co. Inc. Norm 710 Virginia St. East, Arcade Building Street Charleston,, WV 25301	018084 Seller C:
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (25 letters maximum for field name.)	Washington District Field Name Calhoun County State V!V	Code
(c) Name and identification number	Date of Lices:	Number
of this well: (35 letters and digits meaninum.) (d) If cods 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Brannon 853	
5.0 (a) Name and code number of the purchasser. (35 letters and digits maximum. If code number not available, leave blank.)		
(b) Date of the contract:	Mo. Cay Yr.	Buver Coa
(c) Estimated total annual production from the well:	22	Cubic Feet
	(a) Base Price (b) Tax (c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a (b) and (c)
Contract price: (As of filing care. Complete to 3 cocimel places.)	S/MMBTU 5 8 3 4	
Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	
Agency Use Only To George by Juris Agency Te George by FERC	Harry L. Deige 2	5/17/2024
	Care Application is Completed Phone Number	

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

OMB No. 1902-60* (Expires 12/31/84.

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buver/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

- Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Section of NGPA	Category (b)	Description (c)	
102		New OCS lease	
102	2	New onshore well (2.5 mile test)	
102	3	New onshore well (1000 feet deeper test)	
102	4	Hew onshore reservoir	
102	5	New reservoir on old OCS lease	Marie Contract of the Contract
103		New onsnore production well	
107	0	Deep (more than 15,000 feet) high-cost gas	Marie Control of the last
107	1	Gas produced from oeopressured brine	-
107	2	Gas produced from coal seams	
107	3	Gas produced from Devonian shale	Management of the
107	5	Production ennancement gas	-
107	5	New tight formation-gas	Marie Control of
107	7	Recompletion tight formation gas	e participation of
108	0	Stripper well	DESCRIPTION OF THE PARTY OF THE
108	1	Stripper well — seasonally affected	Charles of the last
108	2	Stripger well — enhanced recovery	CONTRACTOR OF THE PARTY OF THE
103	3	Stripper well — temporary pressure buildup	esupercustus
108	i 4	Stripper well - protest procedure	NAME AND POST OFFICE ADDRESS OF

enter the appropriate information regarding other Purchasers/Contracts.

Contract Date (Mo, Da. Yr) (a)	Purchaser (b)	' Buyer Cod

emarks:

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION SEP 27 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 31 ,19 84	AGENCY USE ONLY
Applicant's Name: Sterling Drilling & Production Co.,	Inc. WELL DETERMINATION FILE NUMBER
Address: 710 Virginia Street, E. Arcade Bldg	840910 47 - 113 - 3668
Charleston, WV 25301	
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well
Date of Contract (Month, day and year)	
First Purchaser:	Designated Agent: Harry L. Berger, Jr.
Address:	Address: Sterling Drilling & Prod. Co., In
(Street or P.O. Box)	`710 Virginia St., E. Arcade Bldg. Charleston, WV 25301
(City) (State) (Zip Code) FERC Seller Code 018084	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING BE ADDRESSED:	NG THIS APPLICATION SHALL
Name: Harry L. Berger, Jr.	Agent
Signature: (Print) J. Berger	(Title)
Address: Sterling Drilling & Prod. C	o., Înc. e Bldg.
(Street or P.O. Box) Charleston, WV (City) (State) Telephone: (304) 342-0121 (Area Code) (Phone No	25301 (Zip Code)
(Certificate of Proof of Service to Purchas	ser)
NGPA Catagory App	lied 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 103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildu:
107 High Cost Natural Gas 107-0 Deep (more than 15,000 feet)	AGENCY USE ONLY
107-1 Geopressured Brine 107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	APPROVED OCT -3 1984 05/17/2024
RECEIVED SEP 1 0 1984	
OIL & GAS DIV. DEPT. OF MINES	

Data Dagain

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

Operator Sterling Didling of Production G. In. Agent: H.L. Berger	
Type Determination being sought - 107 (Devonian Shale)	
API Well No.: 47-013- 3468 Well Name: Brannon # 853	
West Virginia Office of Oil and Cas . Country Call	
References: SJA File No.	District Control of the Control of t
Vol Page Line	
I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Bas Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shase 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 = 160 * API Units 2. Remarks:	
Gamma Ray Scale = 0 -> 200 API Units	
B. Gamma Ray Log Value at 0.7 x Value at Base Line	
1. GR Value = 160 * API Units 2. Calculation: 0.7 (GR Value at Base Line) 0.7 (160 *) = 112 API Units	
III. Intervals with GR index less than 0.7 x (Value at Base Line):	
Interval Thickness Feet of lass is	
From** To*** of Interval 0.7 (Shale Base Line	<u> </u>
2446 5541 Feet	
Total Devonial Interval 2067/	
Total Devonial Interval 3095' Total Less Than 0.7 (Shale Base)	
Total Less Than 0.7 (Shale Base)	
Account of the contract of the	

7.

^{*}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

STATE OF WEST VIRGINIA

Date August 31, 1984

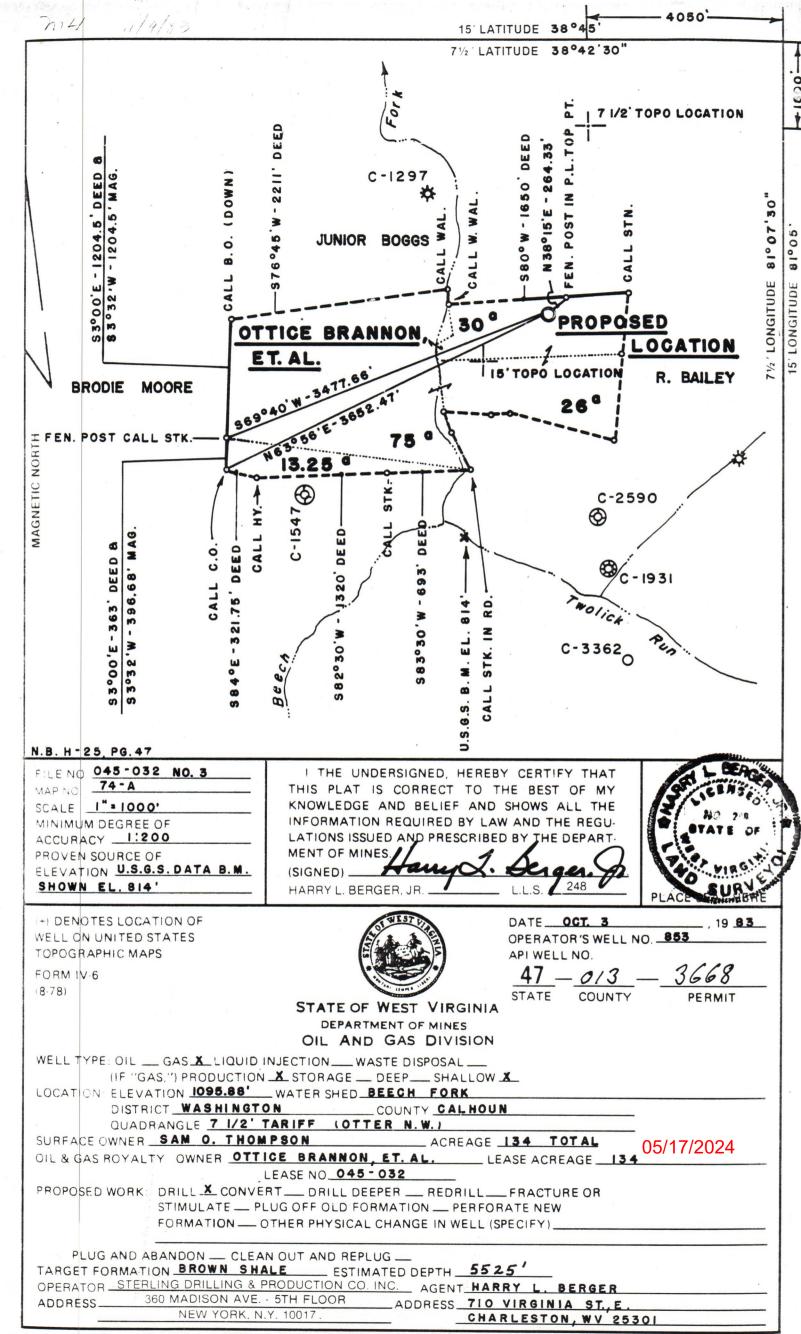
DEPARTMENT OF MINES OIL AND GAS DIVISION Operator's
Well No. Brannon 853

API Well No.

47 - 2/3 - 3668 State County Permit

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

non been	2011 201
	DESIGNATED AGENT Harry L. Berger, Jr.
	ADDRESS Arcade Building; 710 Virginia St.,
	Charleston, WV 25301
	LOCATION Elevation 1095.88'
WELL OPERATOR Sterling Drilling and Product	ion Watershed Beech Fork
ADDRESS 710 Virginia St., East	Inc. Dist.Washington County Calhoun Quad. 7.5 Tarif
Charleston, WV 25301	Gas Purchase
.GAS PURCHASER	Contract No.
ADDRESS	Meter Chart Code
	Date of Contract
* * *	* * * *
Date surface drilling began: March 16,	1984
Indicate the bottom hole pressure of the w	ell and explain how this was calculated.
Bottom Hole Pressure. PSIA Pf = Pwe XI	.GS
	1 56/ = .0000334
	$X = \frac{1}{53.34} \times \frac{56}{} = \frac{,0000334}{}$
Pf = 1200 × 2.7183 10000334 × 4547	2 x .690 x 1.09 = 1345 PSI
	IDAVIT
described in subparagraph (3)(i) or (3)(ii report described in subparagraph (3)(ii)(E of potentially disqualifying non-shale for percent of the gross Devonian age interval	ge of the producing interval which is not index of less than 0.7 if a Gamma Ray log ()(A) has been filed, or as indicated by the (a); I have demonstrated that the percentage of the equal to or less than five (5) (b); and I have no knowledge of any information inconsistent with a conclusion that the well
STATE OF WEST VIRGINIA	
COUNTY OF Kananha, TO-WIT:	
I, JoAnn & Brooks, a Notary	Public in and for the state and county
aforesaid, do certify that Harry L. Berge	r, Jr. , whose name is signed to
the writing above, bearing date the 3/57 acknowledged the same before me, in my con-	day of Jugust, 1984, has
Given under my hand and official seal this My term of office expires on the 27 day	3/8 day of Ducenst . 1984 .
(NOTARIAL SEAL)	John Chrokes Notary Public





DATE 10-11-83

WEIL NO. Brannon * 853 API NO. 47 - 013 - 3668

State of Mest Hirginia

Beparlment of Mines Bil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

	CONSTRUCTION 122	Dmod
	D -3 CO W	FILL OPERATOR Sterling Drilling & Prod.
OMPANY NAME	Sterling Drilling & Prod. Co.	MELL OPERATOR Sterling Drilling & Prod. Address c/o H.L.Berger - Chars. WY
Address	360 Madison Ave NY, NY 10017	Address c/o H.L.Berger - Chars. WY Telephone (304) 342-0121
Telephone	2 (212) 949-9100	MIC DISTRICT Little Kanawhan SCD
1C1CP	Som O. Thompson Sterling	Drilling & Prod. CoH.L. Bergegent) Kanaluka ScD. All corrections
LANDOWNER	tion to be carried out by Sterling	Drilling & Prod. co. Manager ions
Revegeta	1.41/e	Kanawha SCD. All collection
This P	lan has been reviewed by	Kanawha son. All corrections 10-12-83
and additio	ons become a part of this plan:	(Date)
	Jar	religion DECERVISIN
		(SE ISSET)
	TOWN	NOV 4 - 1983(1)
	ACCESS ROAD (A)	Structure
Structure		Material OIL & GAS DIVISION
		DEPT. OF MINES
	Size 16"	Page Ref. Manual
Page Ref.	Manual 2-8	Structure Rip-Rap (2)
	Drainage Ditches (B)	Side and the state of the state
Structure_	The state of the s	Material Rock
Spacing_	Roadside	Page Ref. Manual 2.9
Dage Ref.	Manual 2-12	(3)
rage	(0)	Structure
Structure	Cross Ditches (C)	Material
Spacing_	100 specing for 8-10% grades	Page Ref. Manual
	- 0 11	^77
· Page Ref.	structures should be inspected regulations at timber is to be cut and stacked	arly and repaired if necessary. Attached and all brush and small timber to be work begins.
AZZ	structures should be tripped and stacked	and all bluss.
contrie.	rcial timber is to be cut and stacked rcial timber is to be cut and stacked removed from the site before dirt	
	REVEGET	MOITAT
	REVERSE	Treatment Area II
	Treatment Area I	? Tons/acre
	Tons/acre	or correct to pH 6.5
Lime	orrect to pH 6.5	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
Fertili	000 103/22	(10-20-20 of equation 2 Tons/acre
reich	(10-20-20 or equivalent) 2 Tons/acre	Mulch Hay 35 lbs/acre
Mulch 1		Seed* [4.3]
	35 105/8010	Ladino Clover 105/acre
	4 105/000	게 되었다. 이 사용 사용 전 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	IDS/acre	and clovers with the proper bacterium.
1.7	amilate all legumes such as vetch, tr	refoil and clovers with the proper bacterium. Moore's well-2024ces, Ir
Inocul	ate with 3X recommended amount.	AN PREPARED BY Rolard X. Compbell
	PI	ADDRESS Route 1 Box 30
	ES: Please request landowners'	ADDRESS ROUTE 1
NOT	ES: Please request new operation to protect new operation to protect new maying season.	Duck, WV 25063
1	eedling for one growing season. ttach separate sheets as	PHONE NO. (304) 364-5780
A	tracii separate.	

necessary for comments.

