FILE COPY



1)	Date:_	September	10	, 1984
	_			

2) Operator's Schoolcraft #1009 Well No.

3) API Well No. 47 - 013 - 3797
State County Permit

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

4) WELL TY	PE: A O	ia <u>w a</u>	/ G	as X	11.07	ONS (IH ANY)	ND CONDITIO	DIFICATIONS A	PERMIT MO
						/ Underground	storage	/ Deep	/ Shallow X/)
5) LOCATIO	N: Ele	vation: _	1236	31'				Fork	
		trict:	Sherma	an		County:C	alhoun	Quadrangle: _	7.5' 7.5' Millstone
6) WELL OP	ERATOR_	Sterl	ing Dr	rilli	ng &	Prod. Co.,	Inc DESIGNATE	DAGENT Harr	y L. Berger, Jr.
Address	220	E. 42	nd St	33	rd Fl	oor_	Address		a St., E.
	New	York,	New \	ork_	1001	7		Charleston,	W.V. 25301
8) OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C		
Name	leo Mace	2					Name UNI	KNOWN AT THIS	TIME
Address		t. 1 B					Address		
	_Si	andrid	lge, W	V. 2	5274				
10) PROPOSE	D WELL V	WORK:	Drill		_/ Drill			/ Stimulate	X TENE (CIE) (VIII
			Plug o	ff old	formation	n/ Perfo	orate new formation	1/	IN SOCIO
									1 2 10 24
11) GEOLOG	ICAL TAR	GET FOR	MATION	i,B	ROWN				SEP 1 3 1984
12) Estim						fee			OIL & GAS DIVISI
							lt,		OIL & GAS DIVISI
14) Appro					0	Is c	oal being mined in th	e area? Yes	DEPT. OF MIN
15) CASING	AND TUBI	NG PRO	GRAM						
CASING OR TUBING TYPE		SPEC	IFICATION Weight	S	. 188	FOOTAGE	INTERVALS	OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor				100					Kinds
Fresh water	9 5/8	LS	33#	X		525'	525'	To Surface	프로그램 이 경험을 되었다.
Coal									Sizes
Intermediate	7"		20#	X		2425'	2425'	100 sks	
Production	4 1/2	ERW	10.5#	X		VALUE AND TENNES	5625'	250 sks	Depths set
Tubing						THE HELD	3 9101107	or as re	//
Liners								1	Perforations:
		20010	AS OF THE	or citie	Taymo, F	ZZ VEORGATITUDO	CHIRTISO TO ASSECT	a ni pionsi di 28	Top Bottom
			1				978	4 10 10 10 10 10 10 10 10 10 10 10 10 10	
		2 2 2 2		(2)(1)	dugi i sitti	OFFICE USE	ONLY	STATE OF THE	Dovision recorded
						DRILLING P		Control of the second	Kalaum damii Walife
	/7 010	2707						0-4-	Well work started
Permit number_	47-013	3-3/9/							ber 10, 19 84
									once with the pertinent legal re-
No. 8) Prior to t	he construc	tion of ro	ads, locat	ions and	d pits for	any permitted wor	k. In addition, the v		intractor shall notify the proper
district oil and g	as inspecto	r 24 hour	s before a	ctual pe	ermitted v	work has commend	ed.)		APACO AND CONTROL OF STREET
The permitted w	ork is as de	scribed in	the Notic	ce and A	Application	on, plat, and reclar	nation plan, subject	to any modifications	and conditions specified on the
reverse hereof.		Oata	hom 10	10	06				AND THE STATE OF T
Permit expires		OCTO	ber 10	, 19	00	unless we	ell work is commence	d prior to that date an	d prosecuted with due diligence.
		-17							OT HER INSPECTIONS
BonBLANK	Agent	V	Plat:	Casin	ng	Fee			
100	0	1 1	2/1	ho	1 -	7700 ~			keason:
148	X		1141	MH	1 /	178	Marga	net 71	10000
						1			Oil and Con
NOTE: Keep o	one copy of	this perm	nit posted	at the d	rilling lo	cation.	Adn	ninistrator, Office of	Oil and Gas

05/17/2024

FORM	IV-2(B)
Reverse	

FILE COPY



OFFICE USE ONLY

STATE OF WEST VIEGINIA

	Conference (reen slädt i	Underground s Watershed:		. 122C		OCATIO
amona Tine 18 18 18.	. Quadragle: Z.						
	AGENT LLHBOOT!		red mon				WELL OPE
Freign 9		Acidress			7		
and the same					TO BE NOTE		ran e ma
					21100 2d O1.		
					Tall Motion		
						3002	
Willer	Stimulate X	Rodrill	deeper		ik: brill	WELL WO	PROPOSEI
I A DELCASILI					Plug off		
			well (specify)	vsical change in	Other pn		
CL SEP 1 3 198					FORMATION,		
OIL & GAS DIVIS			.19911001		llaw batalqın		
			teel; salt				
DEPT. OF MI							(ASING A
PACKERS		STERVERS	Cary may		SPECIFICACIONS		
				New Used	y Weight 1	Size G	
				1000	1 2 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7300	
Nivet					1 325 2		
Sixel							
				L L X			
The state of the state of	242 B 303	163dBs		k ky	4 25 . 101 . 48	13 13/13	adaction
LCCVERT PROJECT	PAL (77) 3.0	OFFIC	E USE ONLY				9045
This want of Form IV 2	(h) :- 4 4h			. d C-11-			
This part of Form IV-20	(b) is to record the	dates of certain	i occurrences ar	id any follov	v-up inspectio	ns.	
		Date				Date	(s)
Application received			Follow-up	inspection(s)		
Well work started			DRILLING PE	,,			
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT							radingn ifm
Completion of the drilli	ng						
process Insurface and this was		f permission grante	below is evidence d	nwone noneso	derator and well		is perfuit cover
		the state of the state of the state of	the state of the s		at Market Real care in sec.		Taken a statement
Well Record received			ork has commoneed	al permitted w	hours before act	s inspector 24	an on som an one lie tern
Reclamation completed			n pia ,, and replama	and , polication	ed in the Notice		
rosecuted with due diligence.					CLOPER 103		
OTHER INSPECTIONS	S		10 10		Arrest in		
			Fec 5		Plat:		BonB ANKE
D							
Reason:	<u> </u>	500		Hari	11111		

See the reverse side of the APPLICANTS COPY for instructions to the well operator.

ORM IV-2(A)	1) Date: Contembor 10 1604
bverse -	1) Date: September 10 ,1984 2) Operator's
8-83]	Well No. 1009
	3) API Well No. 47-0/3-3797
	State County Permit
	STATE OF WEST VIRGINIA
	DEPARIMENT OF MINES, OFFICE OF OIL & GAS
	NOTICE OF APPLICATION FOR A WELL WORK PERMIT
1) SURFACE ON	NER(S) OF RECORD TO BE SERVED 5(i) COAL OPERATOR UNOPERATED
(i) Namewo	
Address	SC TOOLE NAP (
Address	
(ii) Name	STUMPTOWN, W. V. 25280 STUMPTOWN, W. V. 25280 Name UNKNOWN
Address	ONKNOWN
Address	· induces ·
iii) Name	Name
Address	
7 4441 (55)	· marcos
	5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
	Name
	Address
	rautess
	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 TV-2(R) (or Fe-
	and describes the well and its location and, if amplicable the proceed are work,
	(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 gut the plan for some IV-9.
	plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.
	Total de site an access road.
1	THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS RECARDING 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
	(FORM IV-2 (B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY
	Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil
,	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 leastice of Oil and Gas, West Virginia
	and depicted on attached Form IV-6 Coming of the location described on attached Application
	Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by rublication in 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
	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 outside the contract of
	Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which
	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 problems or any similar provision
	to the volume of oil or gas so extracted, produced or marketed? Yes NoXX
	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 plant
	the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.
mh a ++ 6	
Notice and a	the information on the WEIL
Notice and A	opplication is verified OPERATOR Sterling Drilling & Prod. Co., Inc.
signed on be	half of the Well Operator By Harry L. Berger
in my County	Harry I Penger In Designated Agent
thia 103	Address 710 Virginia St. F
this 10day or	Charleston, W.V. 25301
My Cammis:	sion expires May 10, 1989. Telephone 342 - 0121
Down	YM UFILLOWIA
Notary Pul	blic, Kanawha County,
	West Virginia

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-l2b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-l2a, 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-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
J. W. Schoolcraft Rt. 1 Box 14 Stumptown, W.V. 25280	Sterling Drilling and Production Co., Inc.	1/8	20/378

Leon Powell

SURFACE OWNER'S COPY



1)	Date: SEPTEMBER 18	1984
----	--------------------	------

2) Operator's
Well No. SCHOOLER AFT # 1009
3) API Well No. 47

County

Permit

State

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

APPLICATION FOR A WELL WORK PERMIT.

7) "	ELL TY			/ Ga			0.47			
		В (1	f "Gas",	Production	211					_/ Shallow _X/)
5) L(CATIO	N: Ele	evation: _	1236.	31		_ Watershed: _			1
		Di	strict: _S	HEKMA.	N		County: C	ALHOUN	Quadrangle:	1,5 MILLSTONE
6) W								7) DESIGNATE		L. BERGER, JR.
	Address						3	Address		5T, E,
	T. S. S. S.	NE	N YORK	, NEW	YORK	100	17_		CHARLESTON,	W, V, 25301
-, -				BE NOTII	FIED			9) DRILLING C		
Na	amel	DEO 1	MACE				-	Name 10/	UKNOWN AT	THIS TIME
	Address	RT	1 30	0x 5				Address	<u> </u>	
		SA	NDRIDE	SE, W.	Ve I	25279	<u></u>			
) PI	OPOSE	D WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	/
							/ Perfor			
							well (specify)			
) G	EOLOGI	CAL TAR	GET FOR	MATION						
•										
		_	_				feet; salt		feet	
									e area? Yes	/ No X /
		ND TUBI	_				13 CO	ar being mineu in th	carca: 105	110
,		II TOBI					FOOTAGE	NTERVALE	N CEMENT FILL UP	DACVEDS
CASING			SPEC	Weight	,		FOOTAGE I	NIERVALS	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	100000000000000000000000000000000000000
onducto	r	0 71 11			-				1	Kinds
resh wat	er	95/8"	15	33#			525'	5251	TO SURFACE	
oal										Sizes
ntermedi	ate	7"	1-55	ZOF		110	2425'	2425'	100 SKS	
roductio	n	41/2"	ERW	10,5#	726 P	3-12-01	Service of the	56251	250 5KS	Depths set
ubing										
iners			A STATE OF	1 10 10 1111	, postinui	1		I Trong to violing the		Perforations:
		1			17 g Suc. 1		The second second			Top Bottom
	Control of the Contro			- A						
							1			er i i i i i i i i i i i i i i i i i i i
		the filing	of the Ap	plication if	the sur owner	face owners copy of		s) the following "Vo	n be issued in less than oluntary Statement of N	
opies n For	of (1) a N m IV-6, urther sta	Notice of A and (4) a (pplication Construction	for a Well on and Re	Work l	Permit on on Plan o	Form IV-2(A), (2) on Form IV-9, all form	an Application for a or proposed well we	Well Work Permit on ork on my surface land	Permit, and that I have receive Form IV-2(B), (3) a survey plata as described therein. In the being issued based on thos
For ex	ecution 1	by corpora	tion, parti	nership, et	<u>c.</u>)		(Fo	r execution by natu	iral persons)	
								-// // .	11/1/1/1/1/	1 0 11
NAME	<u> </u>						//2	Thoodron	(Signature)	Date:/0-4-
IAME	Ву						10	Thoodron	(Signature)	Date:



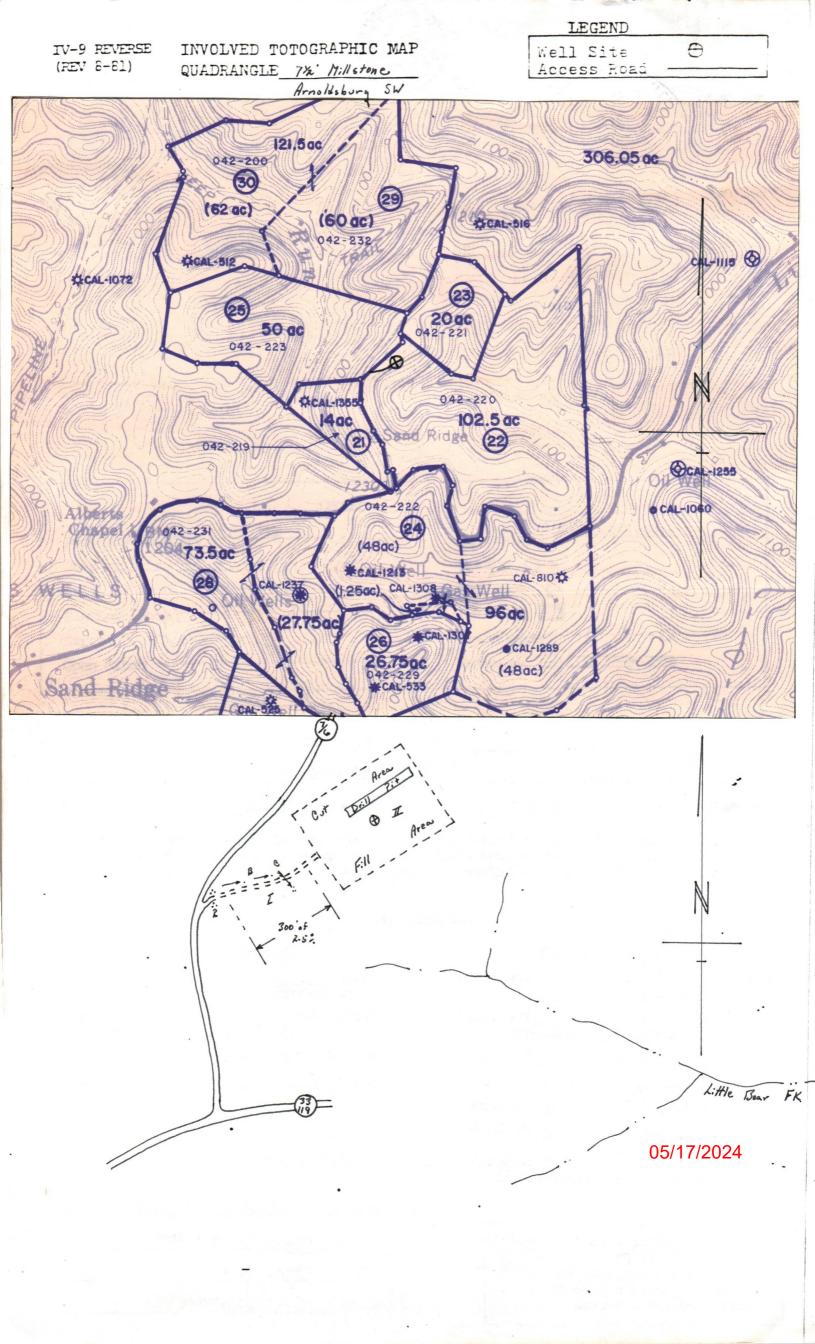
IV-9 (Rev 8-81)

DETE 8-18-84
WELL NO. School craft # 1009

State of Mest Airginia API NO. 47 - 013 - 3797 Bepartment of Mines Gil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Pr	rod. CoDE	SIGNATED AGENT Sterling	Drilling & Prod.
Address 360 Madison AveNY,NY	10017	Address c/o H.L.Berger	- Chas., WV
Telephone (212) 682-0204		Telephane (304) 342-0	121
LANDOWNER Leash Davis WOODROW SCH	HOOLCRAFT	SOIL CONS. DISTRICT 1:4/6	Lanawha SCD
Revegetation to be carried out by St	terling I	Orilling & Prod. CoH	.L.Berg (Agent)
This plan has been reviewed by	Little	Kanamha SOD. All	corrections
and additions become a part of this plan	n:	8/31/84	
· 2 R	4/	(Date)	
	_/lan	(SCD Agent)	•
ACCESS ROAD	Y	LOCATION	- man
Structure	(A)	Structure	
Size .		Material	FREINFILL
Page Ref. Manual		Page Ref. Manual	SEP 1 3 1984
	(D)		IL & GAS DIVISION
Structure Drainage Ditches	(B)		PT. of MINES
Location Roadside	• .	Material Rock	
Page Ref. Manual 2-12		Page Ref. Manual 2-9	•
Structure Cross Drains .	(C)	Structure	(3)
Spacing 400' for 2-5%		Material	
Page Ref. Manual 2-4 Table 1		Page Ref. Manual	
All structures should be inspected a commercial timber is to be cut and stocut and removed from the site before a	acked and	all brush and small timber	All to be
DI-	TO THE PART OF		
KEN	VEGETATION		
Treatment Area I		Treatment Area I	_
Lime 2 Tons/acre or correct to pH 6.5		Lime \mathcal{Z} or correct to pH 6.5	Tons/acre
Fertilizer 500 lbs/acre	1	Fertilizer 50	· ·
(10-20-20 or equivalent)		(10-20-20 or equ	
Mulch Hay or Straw 2 Tons/acre Seed* Onhard ans 5 /5 lbs/acre		Mulch Hay or Straw	2 Tons/acre /s lbs/acre
Seed* Orchard grass /5 lbs/acre	•	Seed* Orchardones Red Clover	4 lbs/acre
Als: Ke Clover 4 1bs/acre		Alsike Clover	4 lbs/acre
*Inoculate all legumes such as vetch,	trefoil an		
Inoculate with 3x recommended whoult.		RED BY Rihard V. Camp	
NOTES: Please request landowners'		DDRESS Route 1, Box 30	
cooperation to protect new \ seedling for one growing season.		Duck, WV 2506	3
Attach separate sheets as necessary for comments.	PHON	TE NO. (304) 364-5780	



P 522 051 912

WOODROW SCHOOLER Street and No. RT. I BOX 14 P.O., State and ZIP Code STUMPTOWN, W. V. ZS	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing the	om,
TOTAL Post ge and Fee	\$ CT
TOTAL Post ge and Feed Postmark or Date 74 No	E 00
733 .	13.2
NO	01



OIL & GAS DIVISION
DEPT. OF MINES



IV-35 OIL & GAS DIVISION (Rev 8-BIEPT. OF MINES



State of West Birginia

Department of Mines Gil und Gas Bivision

	Februa	ary 7,	1985
Operat	or's		
Well N	lo.	1009	
Farm	School	craft	
API No	. 47 -	013	- 379 4
			3797

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1236,31 Watershed	Little Bear	r Fork		
District: Sherman County C	Calhoun	Quadrangle	a 7.5' M	illstone
COMPANY Sterling Drilling & Production Co. Inc.		1		TG
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			
SURFACE OWNER Woodrow Schoolcraft	20-16 Cond.			
ADDRESS Rt 1, Box 14, Stumptown, WV 25280	13-10"			
MINERAL RIGHTS OWNER J. W. Schoolcraft	9 5/8	540'	540'	195 sks
ADDRESS Same	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace	7	2446'	2446'	175 sks
ADDRESS Rt 1, Box 5 Sandridge, WV 25274	5 1/2			1
PERMIT ISSUED October 10, 1984	4 1/2		5531'	275 sks
DRILLING COMMENCED October 28, 1984	3			
DRILLING COMPLETED November 3, 1984	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN				
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	th 5625	fee
Depth of completed well 5552' KB feet	Rotary x	-	e Tools	
Water strata depth: Fresh Reported feet;				Marie 1970 10 10 10 10 10 10 10 10 10 10 10 10 10
Coal seam depths: None		being mine	ed in the	area? NO
	_	Don't have	- L. C.	
OPEN FLOW DATA				
Producing formation Devonian Shale				
Gas: Initial open flow show Mcf/d				
Final open flow 332 Mcf/d				
Time of open flow between init	tial and fi	inal tests	48 05)9	77/2 024
Static rock pressure 750 psig(surface	ce measurem	ment) after	72 hou	rs shut i
(If applicable due to multiple completion	1)			
Second producing formation	Pay	zone dept	-h	fee
Gas: Initial open flow Mcf/d				Bb1/d
Final open flow Mcf/d	Oil: Fir	al open fl	low_	Bb1/c

FORM IV-35 (REVERSE)

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

Perforations:

1st stage: 28 holes from 4484'to 5349'
2nd stage: 28 holes from 3618'to 4326'
3rd stage: 25 holes from 2724'to 3494'

Treatment:

 1st stage:
 1000 gals of 15% HCL; 1,616 MSCF of N

 2nd stage:
 1000 gals of 15% HCL; 1,760 MSCF of N

 3rd stage:
 1000 gals of 15% HCL; 1,760 MSCF of N

WELL LOG

- Lancas de la constante de la	BOTTOM FEET	
		and salt water, coal, oil and ga
10	1121	All measurements from 10. KB
,		
		Salt water @ 2014'
		Dail water @ 2014
		71
The second second		
		Top of Java Formation @ 4878
		10p of Java Formation @ 48/8
		Top of Appel - Ch -1 - 0 51101
		Top of Angola Shale @ 5110'
5325	5552	Top of Rhinestreet Shale @ 54
		TD 5552
1		
1		
1		
	1121 1269 1280 1354 1359 1484 1860 1904 1963 2042 2060 2096 2116 2150 2162 2168 2269 2322 2606 2630 2978 5051 5102 5266	1121 1269 1280 1354 1354 1359 1359 1484 1484 1860 1860 1904 1904 1963 1963 2042 2042 2060 2060 2096 2096 2116 2116 2150 2162 2168 2168 2269 2269 2322 2322 2606 2606 2630 2630 2978 2978 5051 5051 5102 5266 5325

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.	
Well Operator 05/17/2024	
By: Stary & Deiger. To	
Date: 2-/11-85	

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 that, encountered in the drilling of a well."

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORDEPT. OF MINES

ermit No. <u>13-3797</u>		and the second second	Oif of	r Gas Well
ompany Sterling	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
ddress	Size			
rm School craft	16	CV 2		Kind of Packer
II No. 1009	13			
ict Shermon County Cal	10			Size of
g commenced 10 - 28 - 84	65%			Donth set
and the second s	5 3/16		authorities Albertone	Depth set
mpletedTotal depth	3		- 85+2 Record - 17	Perf. top
Depth of shot	2			Perf. bottom
flow/10ths Water inInch	Liners Used			Perf. top
ubing/10ths Merc. inInch				Perf. bottom
Cu. Ft.	CASING CEMEN	TED		No. FTDate
relbshrs.	NAME OF SERV			
bbls., 1st 24 hrs.	COAL WAS ENC	OUNTERED	T	FEETINCHES
feetfeet				The second second second second
feetfeet				FEETINCHES
	FEET_	INCHE	S	FEETINCHES
mes_Hent /				
40' of 936" casing, 1955.	KS cemut,	Danell	.10.	29-84
	inculated		,	
Cemet of	rculatel			

10.29.84

Dio Mac 05/17/2024

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS										
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DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

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DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

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DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



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DEPT. of MINES

INSPECTOR'S WELL REPORT

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DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT

DEPT. OF MINES

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DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 23305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



OIL & GAS DIVISION

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(10-10-84)DEP	T. OF	MINES

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Well: 1009

Permit No. 47- 13-3797 County: CALHOUN

		In Compliance	
Rule	Description	Yes	No
23.06	Hobification prior to starting work		20 40 44 40 40 40 40 40 40 40 40 40
25.04 8	Prepred before drilling to prevent waste		
25.03 !	High pressure drilling		
	Required rermits at wellsite		~ ~ ~ ~ ~ ~ ~ ~
	Adequate Fresh Water Casins		
	Adequate Coal Casins		
	Adequate Production Casins		
	Adequate Cement Strength		
	Cement Type		
	faintzined Access Roads		
	Mecessary Equipment to Prevent Waste		
	Reclaimed Brillins Pits		
	to Surface or Underground Pollution		
	Requirements for Production & Gathering Pirelines		
	√ell Records on Site		
/	Vell Records Filed		
7.05	Identification Markinss		
	THE ABOUT CARTIONER HELL AND DECOMMEND	THAT IT DE	DEL EACED+
I HUAF	INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND		
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			3-85
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	ell record was received and reclamation requirementary and rec		
covera	se for the life of the well.	1	166
		Admini	strator
		June_	
		I	ate

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

rkic	L CHULK	IIL NATURAL	TOME! AC	1 (1.02.11)	
1.0 API well number: (If not assigned, leave blank, 14 digits,	,	47	- ₀₁₃ - 3794	7 -	
2.0 Type of catermination being sought:	.,				and a state of the
(Use the codes found on the front	!		107		
of this form.)	i	Sec	TION of NGPA	Category Code	
3.0 Depth of the deepest completion	<u> </u>				
location: (Only needed if sections 103	1				
or 107 in 2.0 shove.)	!				
4.0 Name, address and code number of	i	I neduction Co. Inc.			
applicant: (35 letters per line	Sterling Drilling and Production Co. Inc.				018084 Seller Cac
meximum. If code number not	Name	Name			
avoilable, leave blank.)		710 Virginia St. East, Arcade Building			
	Street	1 - ston LN 253	01		
		leston, WV 253		Zo C	
5.0 Location of this well: [Complete (a)	Civ		20	Zo C	000
or (b).1	!	Sherman Distri	ct		
(a) For onshore wells	Field N		*		
(35 letters maximum for field		Calhoun .			
name.	County		Sta	v!V	-
(b) For OCS wells:	1				
	!				
	Area N	erne .		Block Nu	mber
	i				
	1	Detr	of Lease:		
	1				
		Ma.	Day Yr.	OCS Lassa Number	
of this well: (35 letters and digits	Scho	olcraft #1009			•
maximum.)	1				
(d) If code 4 or 5 in 2.0 above, name					
of the reservoir: (35 letters	i				
(.mumixam	!			40 AMAN AND AND AND AND AND AND AND AND AND A	
6.0 (a) Name and code number of the					
purchaser. (35 lectors and digits		21-2			
maximum. If code number not	i	UNDEDICATED			
available, leave blank,)	Name				Suver Cade
(b) Date of the contract:	i				
	!				
		-	Ma. Day	Yr.	
(c) Estimated total annual production	i		9.9		
from the well:	1	****		Million Cut	oic F ret
				(c) All Other	
		(a) Base Price	(b) Tax	Prices (Indicate	(d) Total of (a)
	!			(+) or (-).]	(b) and (c)
7.0 Contract price:	1				
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cecimes places.J					
3.0 Maximum lawful rate:	1				1
(As of filling care. Complete to 3	SIMMBTU	5 9 2 0			
decimal ofeces.					
3.0 Person responsible for this application:	i	/s Danser 1	r/ 0		
		y/L. Berger, J	()		ted Agent
Agency Use Only	Name	ku . ~?	Deiger &	Titte	
FEB 1 2 1985	1 = 1	700	Julger. 0		
Cate Received by FERC	Signature	/		304-342-0	121
		7, 1985			/ I = I
1	1 Jake MOD	mation is completed		Phone Number	

FEB 28 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR	COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION 47-013-3794			
Date: Feb. 7 ,19 85	AGENCY USE ONLY hier.			
Applicant's Name: Sterling Drilling & Production Co.	., Inc. WELL DETERMINATION FILE NUMBER			
Address: 710 Virginia Street, E. Arcade Bldg				
Charleston, WV 25301	850212 - 107 - 013 - 3794			
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well			
Date of Contract (Month, day and year)	SDP# 1009			
First Purchaser:UNDEDICATED	Designated Agent: Harry L. Berger, Jr.			
Address:(Street or P.O. Box)	Address: Sterling Drilling & Prod. Co., In 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 CONCERN BE ADDRESSED:				
Name: Harry L. Berger, Jr. Signature: Sterling Drilling & Prod. 710 Virginia St., E., Arca (Street or P.O. Box) Charleston, WV (City) (State) Telephone: 304 342-0121 (Area Code) (Phone I	Agent (Title) Co.; Inc. de Bldg. 25301 (Zip Code)			
(Certificate of Proof of Service to Purcha	iser)			
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 Buildup			
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	· Q			
RECEIVED FEB 1 2 1985	QUALIFIED 05/17/2024			
OIL & GAS DIV. DEPT. OF MINES				

Date Received

FEB 28 1985
Determination Date

FORM IV-55WC Date Feb 7, 1985 STATE OF WEST VIRGINIA (12-78)DEPARTMENT OF MINES OIL AND GAS DIVISION Operator's Well No. 1009 Schoolcraft API Well No. 47 - 013 State County Permit WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE NGPA Section 107 DESIGNATED AGENT Harry L. Berger, Jr. ADDRESS Arcade Building; 710 Virginia St., E. Charleston, WV 25301 LOCATION Elevation 1236.31 WELL OPERATOR Sterling Drilling & Production Co Watershed Little Bear Fork Dist. Sherman County CalhounQuad. 72' Millstone ADDRESS 710 Virginia Street, East Charleston, WV 25301 Gas Purchase Contract No. UNDEDICATED .GAS PURCHASER Meter Chart Code ADDRESS Date of Contract Date surface drilling began: October 28, 1984 Indicate the bottom hole pressure of the well and explain how this was calculated. Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS $t = 60 + (0.0075 \times 5552) + 459.67 = 561$. $x = \frac{1}{53.34} \times \frac{.561}{...} = .0000331$ Pf = 750 x 2.7183 10000334 x 4037 x .690 x 1.09 = 830 PSIA AFFIDAVIT 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 Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log 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) 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. STATE OF WEST VIRGINIA COUNTY OF Karrancha, TO-WIT: JoAm K Brooks, a Notary Public in and for the state and county aforesaid, do certify that Harry L. Berger, Jr. , whose name is signed to the writing above, bearing date the 7th day of February, 1985, has acknowledged the same before me, in my county aforesaid. 05/17/2024 Given under my hand and official seal this 77% day of Johnson, 1985. My term of office expires on the 2777 day of October 1991. OFFICIAL SEAL NOTARY PUBLIC (NOTARIAL SEAL) STATE OF WEST VIRGINIA JoAnn K. Brooks Sterling Brilling and Production Co., Inc., Sterling Brilling and Production Co., Inc., 10 Virginia St. E., Citarleston, WV 25301 Ny Commission Expires October 27, 1991

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

Oper	ator:		Agent;	
Type	Determinat	ion being sough	t - 107 (Devon:	ian Shale)
API	Well No.: _	47-013.3797	Well Na	ame: School crust #1009
West	Virginia O rences: SJ	ffice of Oil and	d Gas County	- Culhoun
v	ol Pa	ge Line		
1.	(c) intervals with	Gamma Par	with the (a) Shale Base 7 x (Shale Base Line), ts less than 0.7 x (Shale ded with this analysis.
II.	Gamma Ray	elevation indic	es:	
	A.	Shale Base Lin	e (API Units)	
		 GR Value a Remarks: 	t Base Line =	/60 * API Units
•	•			
	В.			Value at Base Line
٠, .		 GR Value = Calculation 	n: 0.7 (GR Val	tts lue at Base Line) s) = //2 API Units
III.	Intervals	with GR index 1e	ess than 0.7 x	(Value at Base Line):
	Inte	rval	Thickness	
	From**	To***	of Interval Feet	Feet of less than* 0.7 (Shale Base Line)
,	2550	5540	2990'	Feet 26'
				2 6
	Total Do			
Total		vonial Interval	2990	
7 Less	Than 0 7 4	.7 (Shale Base)		26
	- Linaii U. / (Shale Base Line)	= 0.056 x 100	= 0.86 %
				05/17/2024

^{*}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

