FILE COPY

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



1)	Date:	July 6	, 19 84
2)	Operator's	944	(B)G-V1 MRC I

Well No ._ 47 -3) API Well No.

013 - 3758 State County Permit

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

				A	PPLICA	TION FOR A WEI	LL WORK PERMI	r	
A WELLTY	DE: A O	action in	1977 Ge	X		TALL DAY STAN	STREET, COLOR COLO	DIFICATIONS	ONA SELLAGICIO
4) WELLIY									
5) LOCATIO	N: Ele	vation:	983.7	1		Watershed: _	Hog Fork of	Barnes Run	(LKW/6A1)
	Dis	trict:	Lee	2		County:	Calhoun	Quadrangle:	7.5' Arnoldsburg
6) WELL OP	ERATOR_	Sterl	ing Dr	illi	ng &	Prod. Co.,	I MC DESIGNATE	DAGENT Harry	L. Berger, Jr.
Addres	360) Madi	son Av	e. F	ifth	Floor 475	Address	710 Virginia	St., E.
	Nev	v York	, New	York	100	17		Charleston, W	. V. 25301
8) OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C		
Name	Deo M	ace			10 W W	<u> Para la la</u>	Name U	KNOWN AT THIS	TIME
Addres	s Rt	. 1 Bo	x 5				Address		
	Sai	ndridg	e, W.V	. 25	274				70000
0) PROPOSE	D WELL	WORK:	Drill	X	_/ Dril	deeper	/ Redrill	/ Stimulate	
			Plug of	f old	formatio	n/ Perfo	rate new formation	/	1
			Other p	hysical	change i	n well (specify)			418
1) GEOLOG	ICAL TAR	GET FOR	MATION	BR	OWN S	HALE			1111 - 9 1984
12) Estim	ated depth o	of complet	ed well, 5	325		feet			005 0 1004
13) Appro	ximate trat	a depths:	Fresh, _			feet; sal	t,	feet.	
							oal being mined in th	e area? Yes	O'No& QAS DIVISIO
5) CASING	AND TUBI	NG PRO	GRAM						DEPT. OF MIN
CASING OR	1	SPEC	IFICATIONS			FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water	9 5/8	15	33#	X		320'	320'	To Surface	by rule 15,05
Coal			0011			020	OLO	10 Surrace	Sizes
Intermediate	7"	J-55	20#	X	1	2220'	2220'	100 sks	
Production	4 1/2	ERW	10.5#	X			5360'	250 sks	Depths set
Γubing						FIRE ONLY	DITTO	or as reg	by rule 15.01
Liners			F						Perforations:
		<u> Proits</u>	gani que	wolle	Pazua I	000000000000000000000000000000000000000	austras in estab	in thropen or all	Top Bottom
			Green State						
6	stg(I		B - 4				latte		
				(a)noi	isoashi	du wolloff			haviana anacailaa A
						OFFICE USE			
						DRILLING PE	CRMIT		
ermit number_	47-	013-37	758					July 25,	19 84
eriiit iiuiiibei _	. 100						y Transfer	Date	CHICAGO I A COLOR DO COLOR
his permit cove	ering the we	ell operato	r and well	location	on showr	below is evidence	of permission grant	ed to drill in accordance	ce with the pertinent legal re-
uirements subje	ct to the co	nditions c	contained h	nerein a	and on th	e reverse hereof. N	otification must be	given to the District Oil	and Gas Inspector, (Refer to
						any permitted worl work has commence		ell operator or his cont	ractor shall notify the proper
he permitted we everse hereof.	ork is as de	scribed in	the Notice	and A	application	on, plat, and reclam	ation plan, subject	o any modifications ar	nd conditions specified on the
ermit expires	Ju1	y 25,	1986			unless well	work is commenced	prior to that date and	prosecuted with due diligence.
crimit expires _					10	unless well	work is commenced	prior to that date and	prosecuted with due diligence.
[. I		V							CALCULATION CONTRACTOR OF
BONNIKET	Agent	F	Plat:	Casin	ıg	Fee	L -		t of the second of
•	X	nr	nul	mi	47	439	2	0	110 2000
10 ABI 10		- 111	112	,	- 1/		1 laun	ants/x	lane

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

File

Administrator, Office of Oil and Gas



STATE OF WEST VIRGINIA

		OFFI	CE USE ONLY	APPIAGAT		4 1	
PERMIT MO	DIFICATIONS	AND CONDIT	TIONS (IF ANY	TO THE P	ROPOSED	WELL WOR	A) WELLTA!
Shallow)	Deep		_/ Underground ste		s", Production		CK 1 state 10
(LEIVIGAI)	อนที่ เรียกสริง		Watershed:				S) LOCATION
7.3 Amodestone	Ouadrangle:	garon is				District:	
1 175 - Raby 50 - 1		C DESIGNATED			end out for	RATOR ST	6) WELL OPE
	Storgray Sil	Address /	Loon straight	idaid .	er son_av		Address
TOSES . V.	W _ nortestnes.			1001_1001		17. N941	
	NTRACTOR:	DRILLING CO	6		TO BE NOTIF	INSPECTOR	8) OIL & GAS
SMITTER		Name				20 6 L 06 C	Name
		Address			X08		Address
PROPERTY					V - N	MOSSES.	
W/JELONGED	/ Stimulate_X	/ Redrill . E.	deeper	lling \	K: Drill	WELL WORL	10) PROPOSEI
		e new formation	/ Perforati	old formation	Plug off		
- Ho	14		well (specify)	ysical change in	Other ph		
A861 - 2 - JUL			- 519fA				(1) GEOLOGIC
			1991			ed depth of con	
SUMMER STORES	1991 8		feet; salt,			imate trata dept	
NSIVIO SAD FOR O	area? Yes	being mined in the a	Is coal			imate coal seam	
TIME FOR LETTER D							(5) CASING A
PACKERS	OR SACKS	ERVALS	FOOTAGEANT		SPECIFICATIONS [Walghten		CASING OR TUBING TYPE
	(Cubic (eet)	Left in weit	For drilling	Now Used		Size Gra	
Kinds							Conductor
50.51 MILL HO	To Supt., co.		320		1.3881.3	24 24 至	Fresh water
Sizes						- 4	Cdal
	232 0				100		
Depths set	509 030	OFFI	CE LICE ONLY			1 2 1 2	Production
13.81 11.11 hay	EN 100 ACS	OFFI	CE USE ONLY				Tobing
Perforations	14	1					Liners
This part of Form IV-2(t	o) is to record the	e dates of certa	in occurrences at	nd any follow	v-up inspecti	ons.	
		Date				Dete	(4)
		Date	4		-	Date	:(S)
A			Falla				
Application received		VLY.	qu-wollon	inspection(s)		
Well work started			DRILLING PER	,,			
Well work started	July 25.						
Completion of the drillin						-	ermit number
process mention of the drining			3		Harrison and	an Herrical California	
	tire talet sirk and not con-		reverse herenf hinn	erein and on the	on banisings and	t to the conditie	wirements subject
Well Record received	l operator or his cont	n addition, the wel	ing permitted works	us see pits for a	Froeds, locatio		
			fraginguinna eni vii	oar perminien we	130-310130 5100	n ez ronadeni e	INTER OF THE REAL
Reclamation completed	any modifications an	on plan, subject to	, plat, and reclamati	and Application	d in the Notice	rk is as describe	he permitted was
					1986		
prosecuted with due diligence.		ork is commenced p					ermit expires
OTHER INSPECTIONS				1		i -	
			Fee	Casing	Plat:	Agentift	Bondige
Reason:			1 663	STILL ST	THACL	W.Y.	
	V Cat	1 /500	1 110	A	- Fritti	1 375	
Reason:	A NO	78857 J.			Maria Salahara		



Address



DATE		5.28.	84		
WFT.T.	NO.	4.	V	944	

Stole of Mest Mirginia API 10. 47

API NO. 47 - 013 -3758

Beparlment of Mines Gil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. CoDESIGNATED AGENT Sterling Drilling & Prod.

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

Telephone (212) 682-0204	Telephone (304) 342-0121
LANDOWNER Randal Brannon	SOIL CONS. DISTRICT L: HIE Zanawhay SCD
	rling Drilling & Prod. CoH.L.Berg (Agent)
This plan has been reviewed by / 4-	He Kanawha SCD. All corrections
and additions become a part of this plan:	
	(Date)
	farrett/lewton JUL - 9 1984
	(SCD Agent) 302 - \$ 1304
ACCESS ROAD	LOCATION OIL & GAS DIVISION
Structure Colvert	A) Structure Diversion Diter T. OF MINES
Size /6"	Material Earthen
Page Ref. Manual 2-8 Toble 3	Page Ref. Manual 2-12
Structure Drainage Ditches (1	B) Structure Rip-Rap (2)
Location Pondside	Material Rock
Page Ref. Manual 2-12	Page Ref. Manual 2.9
Structure Cross Drains - Pie (0	Structure (3)
Spacing 200' for 11.15% of 400' for 2.5%	Material
Page Ref. Manual 2.8 7216 4	Page Ref. Manual
All structures should be inspected re commercial timber is to be cut and stac cut and removed from the site before di	egularly and repaired if necessary. All cked and all brush and small timber to be irt work begins.
REVE	CETATION
Treatment Area I	Treatment Area II
Lime 2 Tons/acre or correct to pH 6.5	Lime 2 Tons/acre or correct to pH 6.5
Fertilizer 500 lbs/acre (10-20-20 or equivalent)	Fertilizer 500 lbs/acre (10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acre	Mulch Hay or Straw 2 Tons/acre
Transportation and April Business and April 1988 an	Seed* 6-31 40 lbs/acre
Seed* Ly-31 40 lbs/acre	hading Clover 4 lbs/acre
lbs/acre	lbs/acre
*Inoculate all legumes such as vetch, t. Inoculate with 3X recommended amount.	refoil and clovers with the proper 12/01/2023
	LAN PREPARED BY Rehard N. Camplell
NOTES: Please request landowners'.	ADDRESS Route 1, Box 30
cooperation to protect new seedling for one growing season.	Duck, WV 25063
Attach separate sheets as necessary for comments.	PHONE NO. (304) 364-5780

LEGEND IV-9 REVERSE INVOLVED TOTOGRAPHIC MAP Well Site QUADRANGLE 72 Amoldsburg
Arnoldsburg SW (FEV 8-81) Access For PELLETAL 6-85 51 042 099 42,09 TRANSMISSION 92.75 Ø €-2281 6-85 18 A COON ET ALP 2265 042-151-1=0 042-175 83 CAN 161 600 of 11-15% 600 of 2.5% 12/01/2023 Line X

1)	Date:	July 6	,1984
2)	Operato		

Well No. 944 3) API Well No. 47-0/3-3758

State County Permit

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

		NOTICE OF	F APPLICATION F	OR A WELL	WORK PERMIT	
4) SU	RFACE OWN	ER(S) OF RECORD				UNOPERATED
	Name	Randall Brannor		- (-,	Address	
	Address	General Deliver	·y	5 / · · · ›		
		Spencer, W.V. 2	25276	5(11)	MT	VITH DECLARATION ON RECOR
(11)	Name Address				NameAddress	UNKNOWN
	Address_				Address	
(iii)	Name -				Name	
	Address		0.4.4		* dress	
	_		944	C.V.O .O.	70	
			P 377	648 93	S LESSEE WIT	TH DECLARATION ON RECORD:
			RECEIPT FOR CEI	RTIFIED MAIL	dress	
			NO INSURANCE COVER NOT FOR INTERNA			
		TO THE PERSON(S) NA	(See Rev	erse)	and the following	ng documents:
		(1) The Applic to be plug	Sent to		or Form IV-4 if t	he well is
		and descri	RANDALL BRANA Street and No.	IDN	le, the proposed	casing and
		(2) The plat ((3) The Constr	GENERAL DEL	IVER Y	orm IV-6; and	and the same of th
		plug a wel reclamatic	P.O., State and ZIP Cod	ie	ss the well work diment control an	is only to d for
		THE REASON YOU	SPENCER, W.	1. 25216	THE PRESIDENCE OF THE	
		WHICH ARE SUMMARIZE (FORM IV-2(B) OR FC	Postage	\$	THE COPY OF THE	APPLICATION
		ACTION AT ALL.	Certified Fee		REQUIRED TO TAK	EANI
		Take notice the erator proposes to	Special Delivery Fee		the undersigned and accompanying	well op-
		for a Well Work Per Department of Mine:			l and Gas, West V:	irginia
		and depicted on at: Construction and R	Restricted Delivery Fee		bed on attached application, the pl	lat, and the
		by hand to the per- before the day of i	Return Receipt Showing to whom and Date Bali		or certified mail	or delivered
		-	Return Receipt Strowing to	own,		DIEGELVIAIN
		6) EXTRACTION RIGHT Check and provice	Date, and Addiress at Dell	Mach		The state of the s
		Included is	TOTAL Postage of Fe	es > \$	or contracts by	which JUL - 9 1984
		The requireme	Postmark or Pate	75/2	erse side for spec	
		7) ROYALTY PROVISIC	NO19	57/1		
		Is the right to mor other contrac E			d upon a lease or	leases OIL & GAS DIVISION
		for compensation of to the volume of	the state of		or any similar principle is not inherently	PT. OF MINES
		If the arraw you may use Affiday	er acove is No, noutling	accurational 12	i? Yes No X	s Yes,
			TO TOLIN TV-60.			
		See the reverse the required or Reclamation Pla	pres or the motive and	nstructions, and Application, p	for instructions concer lat, and Construction a	rning nd
The	truth of	the information of	on the	WELL		0
Noti	ce and App	plication is ver	ified		ror Sterling Dr	rilljng & Prod. Co., Inc.
and	sworn to	and the Notice is	5		1	1/2
sign	ed on beh	alf of the Well (and State by	Operator	By	Partie	X. Wigh
اللا تنب		and State by arry L. Berger.	ln.	Its	Designat⁄ed Ag ress 710 Virgini	
this	6 day of	July	, 1984.	AUU	ress 710 Virgini Charleston.	
	-	ion expires May		Tele	ephone 342 - 012	w.v25501
_	Lavin	M. Stillashi	e			
	otary Pub	- RAHAWHA	County,			12/01/2023
S	tate of _	West	Virginia			12/01/2020

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.

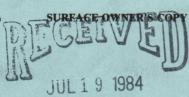
INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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
Ernest Husk 1320 Broadway Parkersburg, W.V. 26101	Sterling Drilling and Production Co., Inc.	1/8	085/421

Noel & Violet Connolly Melba & James F. Haught FORM IV-2(B) (Obverse) 7-83





1) Date:	1y 6		, 19.84
2) Operator's Well No.	944		
3) API Well No.	47		
	State	County	Permit

STATE OF WEST VIRGINIA

OIL & GAS DIVISION

APPLICATION FOR A WELL WORK REPORT

4)	WELL TY	EPT PE: A C	. OF	MIN	E	/	TION FOR	A WELL WORK FERN		
,			If "Gas",			K TATE OF	/ Under	ground storage	/ Deep	_/ Shallow/)
5)	LOCATIO	N: Ele	evation: _	983.7	11		Waters	CONTRACTOR OF THE PARTY OF THE	THE RESERVE OF THE PARTY OF THE	2 51 5 211
			strict:	Lee		- 4 1	County		Quadrangle: _	7.5' Arnoldsburg
6)	WELL OP	40.00		ing Dr		#46 1	rod. Co		ED AGENT Harry	L. Berger, Jr.
	Address	New		New		100	7.	Address	Charleston W	V 25301
8)	OIL & GA	S INSPEC					The state of the s	9) DRILLING	CONTRACTOR:	110 40001
٠,	Name						BEST STATE		NKNOWN AT THIS	TIME
	Address		1 80				a descrip	Address		
		Sar	dridge	e. W.V	. 257	274				
10)	PROPOSE	D WELL	WORK:	Drill	X	_/ Dril	l deeper_	/ Redrill	/ Stimulate	
						formatio		Perforate new formation	on/	
				AND SHARE BEING THE RESIDENCE OF THE PARTY O			in well (speci	fy)		
11)	GEOLOGI						RALL	C		
	12) Estima 13) Appro						feet;	feet salt,	feet.	
	14) Appro				0			Is coal being mined in		/ No. /
15)	CASING A							is com come mined in	the area.	
CA	SING OR		SPEC	CIFICATION	S		FO	OTAGE INTERVALS	CEMENT FILL-UP	PACKERS
TU	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drill	ing Left in well	OR SACKS (Cubic feet)	Section 18th American
Cond	luctor									Kinds
Fresh	water	9 8/8	LS	33#	X		320'	3201	To Surface	
Coal										Sizes
Inter	mediate	7"	J-55	20#	X		22201	2220'	100 sks	
Prod	uction	4 1/2	ERB	10.5#	X			5360'	250 sks	Depths set
Tubin										
Liner	'S									Perforations:
										Top Bottom
								A		
		"								
		the filing	of the App	lication if	the surf	face own		s. However, the permit candising sign(s) the following "V		
					VO	LUNTA	RY STATEM	IENT OF NO OBJECTI	ON	
copi on F	es of (1) a No Form IV-6, a	otice of Ap nd (4) a C	plication for the construction of the construc	for a Well n and Rec	Work P	ermit on on Plan	Form IV-2(A	A), (2) an Application for 9, all for proposed well w	a Well Work Permit on look on my surface land	ermit, and that I have received Form IV-2(B), (3) a survey plat as described therein. nit being issued based on those
(For	execution b	y corporat	ion, partn	ership, etc	:.)			(For execution by nat	ural persons)	
								0 10	1 R	7 × 611
NAN	ME:	Mark Co.						Kandell	10 romo	Date: 1-16-89
	Ву								(Signature)	
	Its				D	ate			(Signature)	Date:

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

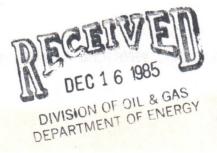
The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

WR-35





State of Mest Airginia DEPARTMENT OF ENERGY Gil und Gas Division

Date (October 22,	1985
Operato		
Well No	944	
Farm_	Husk	
API No.	47 - 013	- 3758

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 983.71' Watershed Ho				And the state of t
District: Lee County Calho	oun	Quadrangle	Arnolds	burg 7½'
and the second s				
COMPANY Sterling Drilling & Production Co., Inc.		1		Cement
ADDRESS 710 Va. St. E., Charleston, WV 25301	Casing	Used in	Left	fill up
DESIGNATED AGENT William E. Stover	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 710 Va. St. E., Charleston, WV 25301	Size 20-16			
SURFACE OWNER Randall Brannon	Cond.			
ADDRESS General Delivery, Spencer, WV 25276	13-10"			
MINERAL RIGHTS OWNER Ernest Husk, et al	9 5/8	345'	345'	130 sks.
ADDRESS 1320 Broadway, Parkersburg, WV 26101	8 5/8	The state of		
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7	2201'	2201'	175 sks.
Mace ADDRESS Sandridge, WV 25274	5 1/2	40 -		2 1016
PERMIT ISSUED July 25, 1984	4 1/2		5087'	280 sks.
DRILLING COMMENCED January 18, 1985	3			
DRILLING COMPLETED January 25, 1985	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
CN				
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	th 5325	feet
Depth of completed well 5112 KB feet	Rotary	X / Cabl	e Tools_	
Water strata depth: Fresh reported feet;	Salt rep	orted_feet		
Coal seam depths: None	Is coal	being min	ed in the	e area? No
OPEN FLOW DATA				
Producing formation Devonian Shale	Pa	v zone der	th 2715'-	.3930' feet
Gas: Initial open flow show Mcf/d	Oil: Ir	itial oper	flow	Bbl/d
Final open flow 207 Mcf/d	Fi	nal open f	low	Bb1/d
Time of open flow between ini	tial and f	inal tests	36 h	ours
Static rock pressure 875 psig(surfa				
the state of the s				
(If applicable due to multiple completion Second producing formation	Pa	av zone der	12/01 oth	/2023 feet
Gas: Initial open flowMcf/d	Oil: I	nitial oper	n flow	Bb1/d
Final open flow Mcf/d	Oil: F	inal open :	flow	Bbl/d
		final test	The same of the sa	

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

PERFORATIONS

1st Stage: 25 holes 3498'-3930'

20 holes 2715'-3314' 2nd Stage:

TREATMENT

600 gals. 15% HCl; 1,185 MSCF N_2 1st Stage: 2nd Stage: 800 gals. 15% HCl; 1,440 MSCF N2

WELL LOG

Husk # 944 REMARKS Including indication of all fres FORMATION COLOR HARD OR SOFT TOP FEET BOTTOM FEET and salt water, coal, oil and ga All depths from 10'KB Sandstone and Shale 0 1270 Sandstone 1270 1392 Shale 1392 1477 Sandstone 1477 1501 Siltstone and Shale 1501 1772 Salt Sand 1772 1883 Shale 1883 1898 Sandstone 1898 1912 Shale 1912 1975 Little Lime 1975 1983 Big Lime 1983 2105 Big Injun 2105 2127 Silty Shale 2127 2470 Sunbury Shale 2470 2486 Siltstone and Shale 2486 2810 Gordon 2810 2836 Shale 2836 4850 Top of Java formation @ 4674' Siltstone and Shale 4850 4932 Top of Angola Shale @ 4880' Shale 4932 5038 Siltstone 5038 5080 Shale 5080 5112 Total Depth 5112

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc. Well Operator 12/01/2023 - Olipu By:

Date: November 6, 1985

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." Note:

APR 2 3 1986

INSPECTOR'S WELL REPORT

4)				
CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
Size	sscandon - c			les posts
16	<i>A</i> .	- 22	Kind of Pac	ker
13	35.5%		Size of	
81/4			Size of	
6%			Depth set	The state of the s
5 3/16			Perf ton	
2				
Liners Used		1	Perf. top	
			Perf. botton	1
CASING CEMEN	NTED	SIZE	No. FT	Date
NAME OF SER	VICE COMPA	ANY		
COAL WAS EN	COUNTERED	AT	FEET	INCHES
FEET_	INCI	HES	_FEET	INCHES
FEET_	INC	HES	_FEET	INCHES
	Size 16	CASING AND DRILLING Size 16	CASING AND TUBING DRILLING LEFT IN WELL Size 16 13 10 8¼ 6% 53/16 3 2 Liners Used CASING CEMENTED SIZE NAME OF SERVICE COMPANY COAL WAS ENCOUNTERED AT FEET INCHES	CASING AND USED IN TUBING PACE Size 16. Kind of Pace 13. Size of. 8¼4. Depth set. 5 3/16. Perf. top. Perf. botton CASING CEMENTED SIZE No. FT. NAME OF SERVICE COMPANY COAL WAS ENCOUNTERED AT FEET.

Remarks:

Release Reclamation

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

	secure and employed control of	Prince the includes the established in our family groups by in the con-	Wel	l No	
	Participants of the technologies the entry over	ADDRESS	2		
FARMDISTRICTCOUNTY					
cation	Amount	Packer	Location		
AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
		The second secon			
				regulation	
		The Same Commence			
	501 - 11-6				
	Nationary Las				
		Land State of the			
311 (3)1					
A Secretary of the second		CONTRACTOR			
	CATION AND DEPTH PLACED WOOD-SIZE	CATION AMOUNT AMOUNT WOOD-SIZE LEAD	ADDRESS DISTRICT CO Cation Amount Packer AMODETH PLACED BRIDGES WOOD-SIZE LEAD CONSTRUCTION-LOCATION	ADDRESS DISTRICT	ADDRESS DISTRICT

DISTRICT WELL INSPECTOR

PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

111102	CITOLA	IIIL .IAI OILAL	0, 2 . 0 2 0	. (
1.0 API well number:	1	47	- 013 - 3758	-	
(If not assigned, leave blank, 14 digits.) 12.0 Type of cetermination being sought:					
(Use the coose found on the front	1		107		
of this form.	!	-	ection of NGPA	CIALIPANIAI	1366
10 Depth of the crepest completion		34	ACTION OF NGPA		W/510
location: (Only needs if sections 103	i	•	5,112	11/12	
or 107 in 2.0 above.	i			DEC 1 6	1985
				D11/10/15	1000.
4.0 Name, address and code number of	I Cto	mling Orilling	and Productio	n co THEN OF C	OIL & GAS 1808
applicants (25 letters per line	-	. I Tring Di Titting		DEPARIMENT	ENERGY OF
meximum. If code number not gradiable, leave blank.)	710	Virginia St. E	ast, Arcade Bu	ilding	Seller C
	Street		207		
	Char	leston,, WV 253	301		
	CIY		Sta	Zo C	008
5.0 Location of this west: [Complete la]	i .				
or thill.	-	ee			
(a) For prishore wells	Field !				
(35 letters meximum for field		Calhoun .			
Lamen	1 Court		Sta	re V!V	-
(b) For OCS wells:	1				
	Area N	ame		Block Nu	moer
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	i	Det	re of Laure:		
	i	111	1 1 1 1		_
	i	Ma.	Day Yr.	OCS Laure Number	•
Ici Name and identification number	1				
of this week: [35 letters and digits		* Husk #	# 944		
Linumicam					
(a) If cook 4 or 5 in 2.0 above, name	1				
of the reservoir: (35 letters	1				
(mumuxam					
6.D Isi Name and cook number of the	i				
purchase. (35 letters and digits	1	de-2			
meximum. If code number not	1 .	Brook	lyn Union Gas		
sveilable, laeve blank,)	Neme				Buver Co
(b) Cere of the contract:	1				
	1		1 1 1 1 1	1 1	
	-		Mo. Cay	Yr.	
(c) Emmered total annual production	1				
from the west:	1		6.21	Million Cut	oc Fret
	1	application of the second		THE PERSON NAMED IN THE PE	
	III		1	Id All One	1
	i	(a) Base Price	(b) Tax	Prices (Indicate	(d) Total of
•				1+1 or (-1.)	(b) and (c)
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(As of filling care. Complete to 3	SAMMETU	6 0 7 6			!
CHOTHE CHOOL	1	6.076	Street, 1 comments country recomp		
.0 Person responsible for this application:	1			ŧ .	1
e	1 W-1	liam E. Stover		Dociona	ted Agent
Aconcy Use Crity	Name ,	TITAM E. SLOVET			ted Adent
ate neceived by Juris, Agency	1	illian &	for the same of th	Title	
DEC 16 1985			Nover		
ATE DECEMBER BY PERC	Nove Nove	mber 6, 1985		304-342-0	1121
ALL LIEUTING OF LETE	Nove	111001 0, 1903		304-342-0	/ I C I

Care Application is Completed

Pone Number

Date Received

STATE OF WEST VIRGINIA

Determination Date

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

JAN 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Vate: November 6, 19 85 47550	AGENCY USE ONLY
Applicant's Name: Sterling Drilling & Production C	o. Inc. WELL DETERMINATION FILE NUMBER
Address: 710 Virginia St., E., Arcade Bldg.	95-1011
Charleston, WV 25301	851216 -1073-013-3758
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well
Date of Contract (Month, day and year)	SDP # 944
First Purchaser: Brooklyn Union Gas 4630	Designated Agent: William E. Stover
Address: 195 Montague Street	Address: 710 Virginia St., E, Arcade Blo
(Street or P.O. Box) Brooklyn, NY 11201	Charleston, WV 25301
(City) (State) (Zip Code) FERC Seller Code	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNED ADDRESSED:	
Name: William E. Stover (Print) Signature: William E. Stover	Vice President/Drilling Superv (litle)
Address: 710 Virginia St., E., Ar (Street or P.O. Box) Charleston, WV 25301 (City) (State) (304) 342-0121 (Area Code) (Phone	(Zip Code)
(Certificate of Proof of Service to Purch	
NGPA Catagory Ap	oplied For
NGPA SECTION/SUBSECTION	
102 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Build
103 New Onshore Production Well 103 New Onshore Production Well	
107 High Cost Natural Gas 107-0 Deep (more than 15,000 feet)	AGENCY USE ONLY
107-1 Geopressured Brine 107-2 Coal Seams	
x 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	QUALIFIED
RECEIVED DEC 1 6 1985	12/01/2023
DIVISION OF OIL & GAS	

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

Operator: Sterling Drilling & Production Co. Agent: William E. Stover
Type Determination being sought - 107 (Devonian Shale)
API Well No.: 47-013-3758 Well Name: Husk (944)
West Virginia Office of Oil and Gas County: Calhoun References: SJA File No.
Vol Page Line
I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.
II. Gamma Ray elevation indices:
A. Shale Base Line (API Units)
1. GR Value at Base Line = 165 * API Units 2. Remarks:
B. Gamma Ray Log Value at 0.7 x Value at Base Line
1. GR Value = 115.5 * API Units 2. Calculation: 0.7 (GR Value at Base Line) 0.7 (165 *) = 115.5 API Units
III. Intervals with GR index less than 0.7 x (Value at Base Line):
Interval Thickness Feet of less than* of Interval 0.7 (Shale Base Line) Feet Feet
2486 5084 2598 94
Total Devonial Interval 2598
Total Loss Then O 7 (Shele Beach)
% Less Than 0.7 (Shale Base) = 0.0361 x 100 = 3.6 %
, onate base line) = 0.0501 x 100 = 5.0 /6
12/01/2022
*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

DEPARIMENT OF ENERGY, OIL AND GAS DIVISION

Date November	6,	1985
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Operator's

API Well No.

Mary Jo Stowers
Notary Public

Well No. 944

47 - 013 - 3758 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHAT

MIGH COST GAS WELL	- DEVONIAN SHALE
NGPA Sect	ion 107
	DESIGNATED AGENT William E. Stover
	ADDRESS 710 Virginia St., E., Arcade Bldg.
	Charleston, WV 25301
•	LOCATION Elevation 983.71'
WELL OPERATORSterling Drilling & Prod. Co.,	Inc.Watershed Hog Fork of Barnes Run
ADDRESS 710 Virginia St., E, Arcade Bldg.	Dist. Lee CountyCalhoun Quad.Arnoldsburg
Charleston, WV 25301	Gas Purchase
.GAS PURCHASER Brooklyn Union Gas	Contract No.
ADDRESS 195 Montague Street	Meter Chart Code
Brooklyn, NY 11201	Date of Contract
* * * *	* * * *
Date surface drilling began: January 18	, 1985
Indicate the bottom hole pressure of the we	ell and explain how this was calculated.
· · · · · · · · · · · · · · · · · · ·	
Bottom Hole Pressure. PSIA Pf = Pwe XLGS	
$t = 60 + (0.0075 \times 5112) + 459.67 = 55$	8.01 $X = \frac{1}{53.34} / \frac{558.01}{2} = \frac{0.00003360}{2}$
Pf 875 x 2.7183 0.00003360 x 0.690	
X 2./103	= 950.9 PSIA
	DAVIT
I, William E. Stover , having been in I have calculated the percentage of footage Devonian Shale as indicated by a Gamma Ray described in subparagraph (3)(i) or (3)(ii) report described in subparagraph (3)(ii)(B) of potentially disqualifying non-shale foot percent of the gross Devonian age interval; not described in the application which is i qualifies as a high-cost natural gas well.	index of less than 0.7 if a Gamma Ray log (A) has been filed, or as indicated by the
	William & Store
	San
STATE OF WEST VIRGINIA	
COUNTY OF Kanawha , TO-WIT:	
I, Mary Jo Stowers , a Notary	Public in and for the state and county
aforesaid, do certify that William E. St	over , whose name insperio to
the writing above, bearing date the 6th date acknowledged the same before me, in my coun	ay of November , 19 85 , has
Given under my hand and official seal this_	6th day of November 3005
My term of office expires on the 7th day	of August , 19 95
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA	Mary In Stowers
(NOTARIAL SEAL) MARY JO STOWERS	Notary Public

MARY JO STOWERS
Sterling Drilling & Production Co., Inc.,
710 Vz. St. E. Charles to Co., Inc.,

