FILE COPY



1) Date:	August 1	, 1984
		THE RESERVE AND STREET

Permit

2) Operator's Miles #1021 Well No.

3) API Well No. 47 - 039 - 4049
State County

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

				-	LIDICI	HON TON IT WE	EL WORK I ERWIT		
4) WELL TY	PE: A C	oil	/ Ga	as	(Zidy, Nin - W.S			
			Production		X	/ Underground		/ Deep	_/ Shallow _X/)
5) LOCATIO			945.31			Watershed: _			E BRANCH KC3
			efferso		5		Kanawha		'.5' Garretts Bend
6) WELL OP									L. Berger, Jr.
Address						100r 47550	Address	710 Virginia	
	New	1 York	New \	<i>fork</i>	1001	.7 b		Charleston,	W.V. 25301
8) OIL & GA	S INSPEC	TOR TO	BE NOTII	FIED			9) DRILLING C	ONTRACTOR:	
Name	Rodney	G. Di	llon				Name Ul	KNOWN AT THIS	S TIME
Address		. Box					Address		
	Wil	liams	town, V	N.V.	26187	<u>'</u>		19-100	
10) PROPOSE	D WELL	WORK:	Drill	X	_/ Dril	l deeper	/ Redrill	/ Stimulate	ODS CELVIS
			Plug of	f old	formatio	n/ Perfo	rate new formation		MIS OF THE
						in well (specify)			
11) GEOLOG	ICAL TAR	GET FOR	MATION	, BEF	REA	10.7			AHE . 9 1994
12) Estim					25	feet			700 A 1004
13) Appro	ximate trat	a depths:	Fresh,			feet; sal	t,	feet.	
14) Appro	ximate coa	l seam der	oths:		0 .	Is co	oal being mined in th	e area? Yes	OILNE GAS DIVISIO
15) CASING	AND TUBI	NG PRO	GRAM						DEPT. OF MIN
CASING OR	1	SPEC	CIFICATIONS	5		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				Page.	15, 7, 2		FA 278		Kinds
Fresh water	8 5/8	LS	33#	X		400'	400'	To Surface	NEAT
Coal					761				Sizes
Intermediate									
Production	4 1/2	CW	10.5#	X		2	24251	200 sks	Depths set
Tubing						White com a	GEORGE STATE	or as	reg. by rule
Liners			2.00						Perforations: / 15.8)
		S. Sandara					a series		Top Bottom
			Total Maria	1930023		R. Sulet Later Strong Co.	H 90: 1700 PE, 8000 MW	7 2-1110 TH SL 1110	A STATE OF THE STA
10 m		4-1-2							
						OFFICE USE	ONLY		Laythary B. Oscaliga-
						DRILLING PE	ERMIT		
D	47	- 039	- 404	9				August	6 19 84
Permit number_		7						Dat	
This permit cov	ering the w	ell operate	or and wel	Location	on chow	n below is evidence	of permission grant		ce with the pertinent legal re-
quirements subj	ect to the co	onditions	contained	herein a	and on th	ne reverse hereof. N	otification must be o	iven to the District Oil	and Gas Inspector, (Refer to
No. 8) Prior to t	he construc	tion of ro	ads, locati	ons and	pits for	any permitted worl	In addition, the w	vell operator or his con	tractor shall notify the proper
						work has commence			
	ork is as do	escribed in	the Notic	e and A	Application	on, plat, and reclam	nation plan, subject	to any modifications a	nd conditions specified on the
reverse hereof.	Au	gust 6	, 1986	,					At 15Rettion arms and room
Permit expires		0				unless wel	l work is commenced	l prior to that date and	prosecuted with due diligence.
	4.7	1/							
Bond:	Agen	5: 4	Plat:	Casir	1g	Fee			
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	1	NI	1	1/18		218	1/1/00	2011	1/211
						_	, july	quiret .	Nass
NOTE: Keep o	ne conv. of	this norm	it posted a	at the	rilling la	cation	Adn	inistrator, Office of O	il and Gas
TOIL. NEED C	me copy of	uns bein	in posted a	it tile a	milling 10	cation			

AND MILE BRANCH

county Caravita Curdishes 7.5 Carreits
9 Prod. Co.: inc. pestokareb communicary L. Barder, J
d. Floor 4 Mate. Adness 710 Virginia St., E.

OFFICE USE ONLY

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

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the grant part part ground have				Velba .v.				
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OIL & GAS DIVISIO								
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	CLART TRANSPORT							
And Sales								
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						CW		
				Acres 1994	100 v + 5 - 5	Photo	deli dale e de	
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gen het hou a	is to record th	e dates of certain	occurrences a			spections		e(s)
This part of Form IV-2(b) Application received	is to record th	Date	occurrences a	and any follo		spections		e(s)
This part of Form IV-2(b) Application received	is to record th	Date	Follow-u	and any follo		spections		e(s)
This part of Form IV-2(b) Application received Well work started	Aveus	Date	Follow-u	and any folloup inspection	(s)	039	Dat	toomin ties
This part of Form IV-2(b) Application received Well work started Completion of the drilling process	airouA	Date V V VO THY NO	Follow-u	and any folloup inspection	(s)	QEO -	Dat	radinate included
This part of Form IV-2(b) Application received Well work started Completion of the drilling process	airouA	Date V V VO THY NO	Follow-u	and any folloup inspection	(s)	QEO -	Dat	radinate lich
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IV-9 (Rev 8-81)



DETE	7-14-84

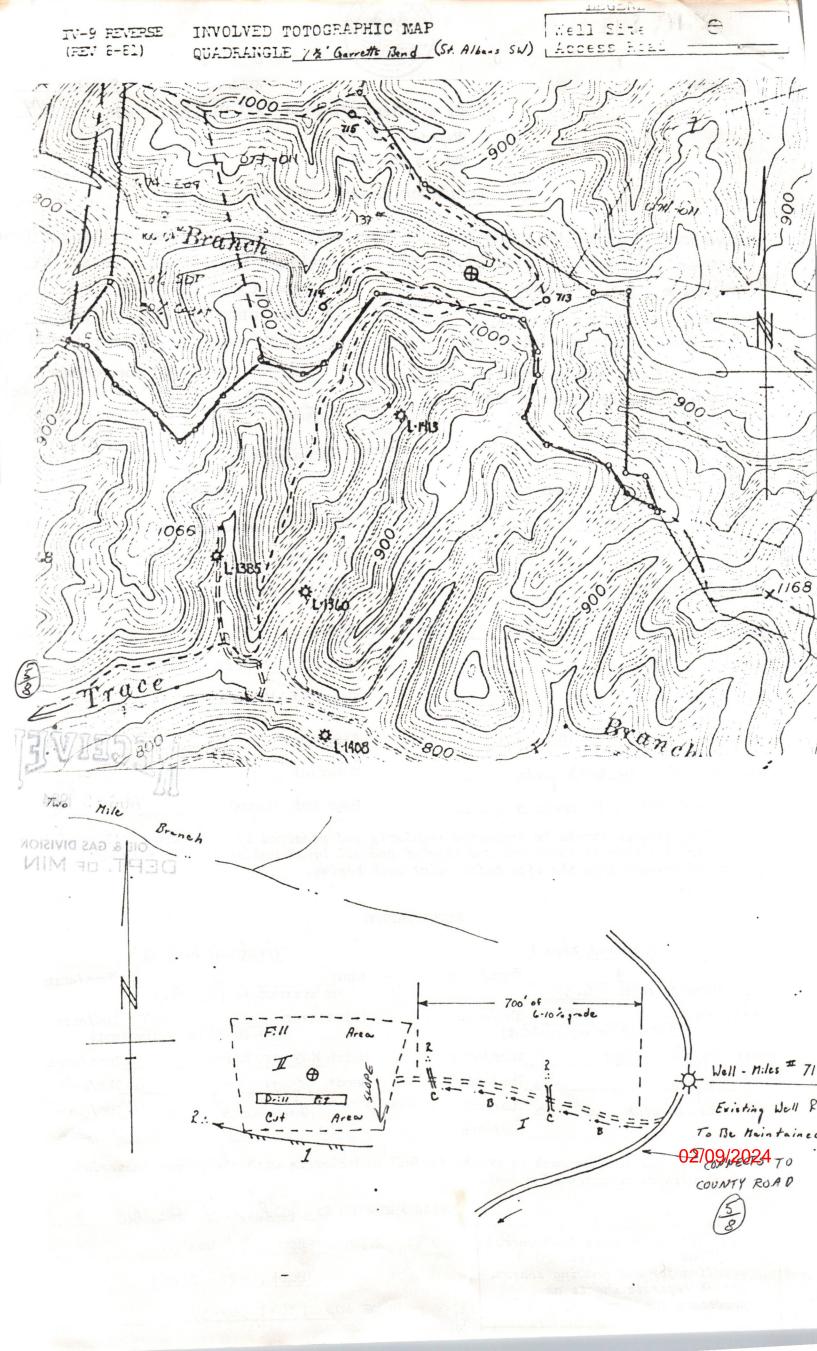
State of Mest Nirginia

API NO. 47 - 039 - 4049

Bepartment of Mines Gil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

And the state of t		ODESIGNATED AGENT Sterling Drilling & Pro
Base of control and the second	NY 1001	7 Address c/o H.L.Berger - Chas., WV
Telephone (212) 682-0204		Telephone (304) 342-0121
LANDOWNER Hosel V. Miles		SOIL CONS. DISTRICT Copital SCD
		g Drilling & Prod. CoH.L. Berg (Agent)
This plan has been reviewed by and additions become a part of this p	Copit	Sab. All corrections See attached Comments Office Comments Office Comments Office Off
		(Sall-Agenetic of the
ACCESS ROAD		LOCATION
Structure	(A)	Structure Diversion Ditch (1)
Size	_	Material Earthen
Page Ref. Manual	-	Page Ref. Manual 2-12
Structure Drainage Ditches	(B)	Structure Rip-Rap (2)
Location Roadside		Material Rock
Page Ref. Manual 2-12	-	Page Ref. Manual 2.9
Structure Cross Drains Pipe -16	(C)	Structure WECEIVE
Spacing 250' for 6-10% grade	-	Material
Page Ref. Manual 2.8 Table 4		Page Ref. Manual AUG - 2 1984
All structures should be inspecte commercial timber is to be cut and cut and removed from the site befor	d regulæ stacked o e dirt wo	rly and repaired if necessary. OIL ALGAS DIVISION and all brush and small timber to be ork begins.
	REVEGETAI	TION
Treatment Area I		Treatment Area II
or correct to pH 6.5	re	Lime 3 Tons/acre or correct to pH 6.5
Fertilizer 500 lbs/acre	2	Fertilizer 500 lbs/acre
(10-20-20 or equivalent)		(10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acr	e	Mulch Hay or Straw 2 Tons/acre
Seed* Ky-31 30 lbs/acre		Seed* Ky. 31 30 lbs/acre
Crownvetch 10 lbs/acre		Cownsetch 10 lbs/acre
1bs/acre *Inoculate all legumes such as vetch		lbs/acre 02/09/2024 and clovers with the proper bacterium.
Inoculate with 3X recommended amount.		
	PLAN PR	EFARED BY Richard X. Campbell
NOTES: Please request landowners' cooperation to protect new		ADDRESS Route 1, Box 30
seedling for one growing season. Attach separate sheets as		Duck, WV 25063
necessary for comments.	P	HONE NO. (304) 364-5780



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 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-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
Hazel V. Miles 123 Fairview Dr. St. Albans, W.V. 21577	Sterling Drilling and Production Co., Inc.	1/8	212/744

FORM IV-2(A))bverse 8-83]

	Date:_		. 1		,1984	
2)	Operat					_
	Well N	O M	liles	#1021		

3) API Well No. 47 039 4049 State County Permit

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

	NOTICE OF APPLICATION FOR	R A WELL WORK PERMIT
	NER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR UNOPERATED Address
	azel V. Miles	Address
Address	123 Fairview Dr.	5(ii) COM COME (CANTED (CANTED)
_	St. Albans, W.V. 25177	5(ii) COAL OWNER(S) WITH DECLARATION ON RECO
(ii) Name		NameUNKNOWN
Address_		Address
(iii) Name		Name
Address		Address
_		5(iii) COAL LESSEE WITH DECLARATION ON RECORD
		Name
		Address
		· · · · · · · · · · · · · · · · · · ·
	TO THE PERSON(S) NAMED ABOVE: You should have	ve received this Form and the following documents:
	(1) The Application for a Well Work Perm	mit on Form TA-2(B) (on Form TI 4 is a
	and describes the well and its locat:	arties involved in the drilling or other work, tion and, if applicable, the proposed casing and
	(2) The plat (surveyor's map) showing the	ne well location on Form IV-6; and
	(3) The Constitution and Reclamation Plan	an on Form IV-9)unless the well work is only to an for erosion and sediment control and for
	reclamation for the site and access in	road.
	THE REASON YOU RECEIVED THESE DOCUMENTS I	TO THAT YOU HAVE DIGING PROPERTY.
	(FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. ACTION AT ALL.	HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY
		West Virginia Code, the undersigned well op- cice and Application and accompanying documents
	and depicted on attached Form TV-6	at the location described on attached Application
	Construction and Reclamation Plan have been a	of this Notice, the Application, the plat, and the
	by hand to the person(s) named above (or by pu	sublication in certain circumstances) on or
	before the day of mailing or delivery to the A	Administrator.
	6) EXTRACTION RIGHTS	
	Check and provide one of the following:	AUG - 2 1984
	Included is the lease or leases or other	w manhimuing
	I hold the right to extract oil or ga	as.
	The requirement of Code 22-4-1-(c) (1) this	as. hrough (4). (See reverse side for specifics.) OIL & GAS DIVISIO
	7) ROYALTY PROVISIONS	OLE & GAS DIVISION
	Is the right to extract, produce or market	the oil or gas based upon a lease or leases DEPT. OF MIN
	for compensation to the owner of the oil or	or flat well royalty or any similar provision
	to the volume of oil or gas so extracted, pr	produced or marketed? Yes No XX
		///
	you may use Affidavit Form IV-60.	additional is needed. If the answer is Yes,
	See the reverse side for line item inst	structions, and for instructions concerning
	the required copies of the Notice and A Reclamation Plan.	Application, plat, and Construction and
-1		
The truth of	the information on the	WELL
Notice and Ar	pplication is verified	OPERATOR Starling Dailling & David Co.
and sworn to	and the Notice is	OPERATOR Sterling Drilling & Prod. Co., Inc.
	half of the Well Operator	By Hanna & Banca
in my County	and State by	- Dung
	Harry L. Berger, Jr.	Its Designated Agent
this 1 day of		Address 710 Virginia St., E.
		Charleston, W.V. 25301
My Counties	sion expires May 10 , 19 89.	Telephone 342 - 0121
& hu	in M. St. Working	
Notary Pub	olic, Kanawha County,	00/00/000
State of	blic, <u>Kanawha</u> County,	02/09/2024
Date of	West Virginia	

SURFACE OWNER'S COPY



1)	Date: AU	gust 1		_, 1934
2)	Operator's Well No.	iles #	1021	an verein
3)	API Well No.	47		
,		State	County	Permit

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

4)	WELL TYP	PE: A C	Oil	/ Ga	as					
			,	Production	CALL SPRINGSONS AND	XENTER		l storage		_/ Shallow/)
5)	LOCATIO			145.31			_ Watershed:	Angel Fork		
				efferso			_ County:	Kanawha		'.5' Garretts Bend
6)	WELL OP							n7) DESIGNATE	DAGENT Harry	
	Address	220) E. 4:	2nd St.	See 13	3rd F	loor	Address	710 Virginia	St., E.
		New	York	New 1	ork.	1001	7 b		Charleston,	W.V. 25301
8)	OIL & GAS	S INSPEC			FIED				ONTRACTOR:	a to many a series all march
	Name	odney	Section 1995	llon				Name	KNOWN AT THIS	TIME
	Address	P.0	l. Box	7			rah wal emana	Address	1 The Control of the	
		M13	liamsi	town, 1	I,V.	26187	i kuwa iu kapani i		A CONTRACTOR OF THE PARTY OF TH	E PARTITION
10)	PROPOSE	D WELL	WORK:	Drill	X	_/ Drill		/ Redrill	/ Stimulate	WITH WESUVIC
				Plug of	ff old	formation	/ Perfo	orate new formation	/	11/25
						The second second	n well (specify)	\$15 THE STATE OF T	tower the same star form	22 0 4004
11)										AUG - 2 1984
	12) Estima				242	S totali	fee			
	13) Approx							lt,	feet.	OU SUCAS DIVISION
	14) Approx					U	Is c	oal being mined in th	e area? Yes	ONo&GAS DIVISION
15)	CASING A	ND TUBI	ING PRO	GRAM						DEPI. OF MILL
	SING OR UBING TYPE		SPEC	Weight	S		FOOTAGE	INTERVALS	OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	RESERVED SEPTEMBERS
Con	ductor								S CANADA CONTROL OF	Kinds
Fres	h water	8 5/8	LS	33#	X	201.041	4001	4001	To Surface	COMPLEX OF SHART WATER
Coa	l a selfin eta	Stex Tellars	N. S. S. S. S. S.	sm-boY	erolesi	150mg	a pattle the about	45 L. B. 1950 (G. D. 1984)	TOTAL LICENSES	Sizes
Inte	rmediate	STURIES.	0.0000000000000000000000000000000000000	SH DOY F	060 850	stage to	Read Agreements	The State State State State	ald grabanian sus	4.91.75(((3))) 200 ((3)) 1.70(0)
Prod	duction	4 1/2	GW	10.5#	X			24251	200 sks	Depths set
Tub	ing								CONTROL TO MADE	17 254 344 3-132-153 3-131-151-151-15
Line	ers	days and	ersoncit ne	By 481 20	002000	mentano.	to the filler over the service	er can be tribble mailte in	in the Range State of the State of the St	Perforations:
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			and the second				The second second		- Andrews Commence Commence	Protect on the conditions
										108 A 11 0 11 0 12 12 18 (17 A 2 1)
		market of a	dy no succession	areno mo	ant non	ied for su	urface owners. How	yayar the permit can	be issued in less than	15 days from
									luntary Statement of N	
							the Application.			and the manual (1)
							d seleger i		parcipiot else ároy	
					VO	LUNTA	RY STATEMENT	OF NO OBJECTIO	N	
	I hereby stat	te that I ha	ave read th	e instructi	ons to s	urface ov	vners on the revers	e side of this Applica	tion for a Well Work P	ermit, and that I have received
cor	pies of (1) a N	otice of A	pplication	for a Well	Work l	Permit on	Form IV-2(A), (2)	an Application for a	Well Work Permit on	Form IV-2(B), (3) a survey plat
	Form IV-6, a	ind (4) a C	Construction	on and Red	clamati	on Plan	on Form IV-9, all	for proposed well wo	rk on my surface land	as described therein.
		te that I h	ave no obj	ection to t	he plan	ned work	described in these	materials, and I have	e no objection to a perr	nit being issued based on those
ma	terials.									
(Fo	r execution b	v cornora	tion parti	nershin et	()		(F	or execution by natu	ral persons)	
(10	1 CACCULION D	y corpora	tion, parti	icisiip, co	<u></u>)		<u>(-</u>	or execution by man	00000	. 1
NA	ME:							Hazel	191. 111	100 para 8-1884
	D.						//-	1. 2	(Signature)	Date. Date.
	Ву			19.00						Date:
	Its				I	Date			(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.

feet

Bbl/d

Bbl/d

hours shut in



IV-35 (Rev 8-81)

State of Mest Wirginia

Bepartment of Mines Gil and Cas Bivision

Date	Septe	ember	24,	1984	
Opera	tor's		100	4.2	
Well !	No.	102	21		-
Farm	Mile	es	-		
API N	0.47	- 039	9	- 4049	

WELL OPERATOR' OF OF OF ON ON ON ON ON ON ON	S REPORT LATING, C Mast Mas	DR PHYSICAL TE Disposa	L CHANGE	llow <u>X</u> /)
LOCATION: Elevation: 945.31 Watershed An		Parkett Complete Complete		
District: Jefferson County Kanaw		Quadrangle	e Garrett	s Bend 7½
COMPANY Sterling Drilling & Production Co., Inc.				
ADDRESS 710 Va. St. E., Charleston, WV 25301 DESIGNATED AGENT Harry L. Berger, Jr.	Caşing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
ADDRESS 710 Va. St. E., Charleston, WV 25301 SURFACE OWNER Hazel V. Miles	Size 20-16 Cond.			
ADDRESS 123 Fairview Dr., St. Albans, WV 25177 MINERAL RIGHTS OWNER Hazel V. Miles	13-10"			
Came	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Rodney G.	8 5/8	393'	393'	150 sks
Dillon ADDRESS P.O. Bx 7, Williamstown,	5 1/2			
PERMIT ISSUED August 6, 1984 WV 26187	4 1/2		2421'	310 sks
DRILLING COMMENCED August 21, 1984	3			
DRILLING COMPLETED August 26, 1984	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Berea	-	Dep	th 2425	feet
	Rotary X		e Tools	***************************************
The state of the s	Salt 111		***************************************	
Coal seam depths: NONE				area? NO
OPEN FLOW DATA				
Producing formation Berea	Pay	y zone dep	th 2318-	2326 feet
Gas: Initial open flow Mcf/d	Oil: In:	itial open	flow	Bbl/d
Final open flow 189 Mcf/d	Fi	nal open f	low	Bbl/d
Time of open flow between init	ial and f	inal tests	12 hc	ours
Static rock pressure 510 psig(surfac	e measure	ment) afte	r 48 hou	15/09/34 313
(If applicable due to multiple completion				

Mcf/d

Mcf/d

Time of open flow between initial and final tests

psig(surface measurement) after

Second producing formation

Final open flow_

Gas: Initial open flow

Static rock pressure

Pay zone depth

Oil: Initial open flow

Oil: Final open flow_

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

Perforations: 10 holes from 2318' - 2326'

Treatment: 90 Quality Foam Frac: 170 Bbls. H_2O ; 1200 MSCF of N_2 ;

10,000# of 80/100 sand; 30,000# of 20/40 sand

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	REMARKS Including indication of all froand salt water, coal, oil and
Sandstone and Shale Salt Sand Shale Maxon Shale Little Lime Pencil Cave Big Lime Big Injun Shale Squaw Shale Weir Siltstone Shale Sunbury Shale Berea Shale TD	0 1078 1169 1179 1575 1594 1632 1637 1805 1822 1833 1880 1937 2050 2282 2303 2331	1078 1169 1179 1575 1594 1632 1637 1805 1822 1833 1880 1937 2050 2282 2303 2331 2462 2462	Fresh water @ 300' Salt water @1110' TD - 2462

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.
Well Operator 02/09/2024
Dur Han of Describ
By: Fluid X. 130991
Date: 9-24-84

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and, encountered in the drilling of a well."

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

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OIL & GAS DIVISION

INSPECTOR'S WELL REPORPT. OF MINES

Permit No. <u>0.39-4049</u>			Oil or	Gas Well	
Company Steeling	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACK	ERS
Address N.Y N.Y	Size		and the second second second second second second		
Farm Miles	16			Kind of Pac	ker
Well No. 1021	13		90.30.3v	Size of	1963
District Tefferson County KAN	81/4				
Drilling commenced	65/8			Depth set	
Drilling completedTotal depth	3			Perf. top	
Date shotDepth of shot	2			Perf. botton	n
Initial open flow/10ths Water inInch	Liners Used			Perf. top	
Open flow after tubing/10ths Merc. inInch	1			Perf. botton	1
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure lbs. hrs.	NAME OF SER	RVICE COMPA	ANY		
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh waterfeetfeet	FEET_	INCE	HES	FEET	INCHES
Salt water feet feet	FEET_	INCH	HES	_FEET	INCHES
Drillers' Names Clivt Hunt R	ig #7				
Remarks: Go Out To Run 85, Rig Hung in hole The I Did Not Stay To Ru	OU TOS	19 14p ho	le		
	- 18			25,0	

Form 26 2/16/82

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY	to 90		ADDRESS	1707	4-1/8,	1
						o and the second
1	5.27 (2)		95.871.19	pu (1)	17	
illing Material Used				1) ()		
iner Loc	cation	Amou	nt Packer	Loc	cation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	N RECOVERED	SIZE	LOST
				500		
Liberty and Liberty			420			
			LA COLONIA	A Property of the Control of the Con		
Lucianus got keek				- // (ap) / kan - in	100	
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and the second seco			Hoal			STR W. S.
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			and the second s	and the same of th		100000000000000000000000000000000000000
3177/17134_		TWOODKIE AZ	Libberton St. Francisco, COAL W.			
Orillers' Names	281000		1357 1	Ve Comment		200
Remarks:				sugar state of the	and season sometimes	a dy add typic (agaptite or o
Komarko.						
			1618 784 78			
	I hereby certify I vis	ited the above v	well on this date.			
DATE						

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT OF MINES

Permit No. <u>039 - 4049</u>			Oil or	Gas Well
Company STERLING DRILLING CO.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address ChARLESTON WVA.	Size			
Farm MILES	16			Kind of Packer
Well No. 1021	13			Size of
District JEFFERSON County KANAWHA	81/4			
Drilling commenced	65%			Depth set
Drilling completedTotal depth	3			Perf. top
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used		****	Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FTDate
Rock pressurelbshrs.	NAME OF SER	RVICE COMPA	ANY	
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEETINCHES
Fresh waterfeetfeet	FEET	INCH	HES	FEETINCHES

Drillers' Names ChINT HURT RIGHT

Remarks: DRha @ 1470'

8-24-84

Salt water.

Jerry District WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No					vell No	
COMPANY			ADDRESS	Shop	-PE	3
			DRILLING CO.	UNC- I	TER	
			, AVOJ 1			
Liner Lo	cation	Amount				ω
PLUGS USED A	AND DEPTH PLACED		BRIDGES		G AND TU	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	1 LOST
			KANALTIA	MIR	FFER	1
				-		
				- 9		
				 		
	108,15					
Drillers' Names						
Drillers' Names						2
Remarks:		Fred +				
		,				
					v	
				6 14	4/10	
				:		
	I hereby certify I vis	sited the above well	l on this date.			
DATE						

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 039-4049

Oil or Gas Well_

Company STERLING DRILLING	CASING AND TUBING	USED IN DRILLING	LEFT IN	PAC	KERS
Address ChARLESTON WWW	9. Size				
Farm MILES				Kind of Pa	cker
Well No. 1021	13				
District JEFFERSON County KAN	10 1AWHA 81/4			Size of	
Drilling commenced	6%			Depth set_	
	5 3/16				
Drilling completedTotal depth	3	and the state of t		Perf. top	. 1007, A. B
Date shotDepth of shot	2			Perf. botto	m
Initial open flow/10ths Water in	Inch Liners Used			Perf. top	
Open flow after tubing/10ths Merc. in	Inch			Perf. botton	m
Volume		NTED	SIZE	No. FT.	Date
Rock pressurelbs					
Oilbbls., 1st	24 hrs. COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh waterfeet	feetFEET_	INCH	ES	FEET	INCHES
Salt water feet	feetFEET_	INCH	ES	FEET	INCHES
Drillers' Names					
		et manteur en		The first trade in the consistency and accordion specification are well	and the second s

9-17-84

Jany Jan 12024

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

CEMENT-THICKNESS WOOD SITE 1510	
illing Material Used Location	View 7 y
THE LOCATION AMOUNT PACKET LOCATION PLUGS USED AND DEPTH PLACED BRIDGES CASING AI CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SI	
THE LOCATION AMOUNT PACKET LOCATION PLUGS USED AND DEPTH PLACED BRIDGES CASING AND CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LEAD CONSTRUCTION RECOVERED SIZE	
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	ND TUBING
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llers' Names	
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narks:	
CHAILER TO EX TENEDY TO PERSON	
I hereby certify I visited the above well on this date.	

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT OF MINES

Oil or Gas Well GAC Permit No. 0.39-4049 CASING AND USED IN LEFT IN PACKERS Company Sterling Drilling DRILLING Size Kind of Packer___ Size of___ District Jefferson County BAN 81/4_ 65/8___ Depth set____ Drilling commenced___ 5 3/16___ Drilling completed_____Total depth_ Perf. top____ _Depth of shot_ Perf. bottom___ Date shot___ Liners Used_ Perf. top___ Initial open flow_____/10ths Water in___Inch Perf. bottom_ Open flow after tubing_____/10ths Merc. in____Inch CASING CEMENTED____ SIZE____No. FT.____Date Volume_ Cu. Ft. NAME OF SERVICE COMPANY lbs. Rock pressure_ hrs. _bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_____FEET___INCHES Oil INCHES FEET_ feet _INCHES Fresh water__ feet FEET feet Salt water_ feet FEET INCHES FEET_ INCHES Drillers' Names___ Remarks: Location Reclaimed & Seeded

TAKE RUSS BEALL TO LOOK At LOCATION

11/8/84

Rod Willow 02/09/2024

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

1881 8 1 VOV INSPECTOR'S PLUGGING REPORT

Filling Material Used	OMPANY			ADDRESS	1.404		V. N
iner Location Amount Packer Location PLUGS USED AND DEPTH PLACED BRIDGES CASING AND TUBING CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LOS' A STATE OF THE PLACE SIZE LOS' STILLER'S Names —	ARM		DISTRICT _		COUNTY		
iner Location Amount Packer Location PLUGS USED AND DEPTH PLACED BRIDGES CASING AND TUBING CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LOS AMOUNT PLUGS USED AND DEPTH PLACED BRIDGES CASING AND TUBING CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LOS AMOUNT PLUGS USED AND TUBING RECOVERED SIZE LOS AMOUNT PACKET PLUGS USED AND TUBING RECOVERED SIZE LOS AMOUNT PLUGS USED AND TUBING AMOUNT PLUGS USED AND TUBI			7 () () () () () () () () () (621111			
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CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE LOS	iner Lo	cation	Amoun	nt Packer	Loc	cation	
brillers' Names	PLUGS USED A	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
brillers' Names	CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
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	willow? Names						
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			ited the above we				



State of West Birginia

Bepartment of Mines Gil and Gas Division

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT October 22, 1984

R	ECEIVED	Department of the
TIT.	NOV 2 6 1984	1

OIL & GAS DIVISION
DEPT. OF MINES

COMPAN	Y Sterling Drilling & Production	PERMIT N	0 03	39-4049	
710	Virginia Street, East	FARM & W	ELL NO	Hazel Mile	es #1021
Chai	rleston, West Virginia 25301	DIST. &	COUNTY	Jefferson	/Kanawha
RULE	DESCRIPTION		IN YES	COMPLIANCE	NO.
23.06	Notification Prior to Starting Work		123		NO
25.04	Prepared before Drilling to Prevent		-		
25.03	High-Pressure Drilling	Waste	-		
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	No Surface or Underground Pollution				
23.07	Requirements for Production & Gather:	ina Dia-14-			
16.01	Well Records on Site	ing ripeline	.s		
16.02	Well Records Filed				
7.05	Identification Markings				
HAVE I	INSPECTED THE ABOVE CAPTIONED WELL AND	RECOMMEND T	HAT IT	BE RELEASE	<u>D:</u>
		SIGNED Z	wil	Dillo	<u>.</u>
		DATE		9-87	
	l record was received and reclamation pter 22, Article 4, Section 2, the abo for the life of the well.	requirements	appro	ved. In acc	ordance

Administrator-Oil & Gas Division

December 28, 1984

