FORM IV-2 (Obverse) (6-82)

DRILLING CONTRACTOR:



1)	Date:	May	10,	, 19	1983
2)	Operato	or's	700		

Well No.\_ 47 1070 Permit 105 3) API Well No. County

	UNKNOWN		* ,	DE	PARTI		TE OF WEST VI	IRGINIA AND GAS DIVISION	ON with your p	and see the
bal	AT THIS	TIME	vam to					T APPLICATION		on TiOth (Ab
Service of the servic	ritefs tem se	an mana de	and the stre		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which	The second second second	Control of the Contro		ell acor bagilar	liow ont te
4)	WELL TYPE	: A Oil	Grane L	_/ Gas _	X		Eller By a LLC 2014	8 (CEV 2018) ** ** ** ** ** ** ** ** ** ** ** ** **	eli in appablin sav	sol in talls
30	radorato i cu	B (If "	'Gas'', Pro	oduction _	X		Underground s	storage	/ Deep	/ Shallow X/)
5)	LOCATION:	Eleva	tion: _68	0.58'		401 - 3323 Topic selle	Watershed: _	Straight Cre	ek of Little	Kanawha River
0	WELL OPEN									5' Annamoriah
0)	Address									L. Berger, Jr. St., E. Arcade
	radicss			New Yor					Charleston,	
7)	OIL & GAS								le lographic led	Fire a continue of the
	ROYALTYO	WNER V	irgil	D. Moni	roe	man o	tions, cor <del>ugan</del>	2) COAL OPERA	TOR UNOPERAT	ED
	Address		9 Box	rg, W.V	7 26	0001		Address	Caraca Stady a na-	Refractions to
	Acreage	52	REISDU	15, W.	. 40	101		3) COAL OWNE	R(S) WITH DECLAR	ATION ON RECORD:
8)	SURFACE O	CONTRACTOR AND ADDRESS OF THE SECOND	lfred	Davis			tilett.		UNKNOWN	
	Address	M	onday,	W.V. 2	26152			Address		
										lanengO = (Q.
	Acreage		1 3/4						TO ELECTRIC TRUES	1 Sp. 1 967 - 961
9)		(IF MAD	E) TO:	secretary.			g rentraemana	Address	AND STREET, NOTHING	O ROLL
	Address	9						A) COALLESSEI	E WITH DECLARATI	ION ON PECOPD.
0)	OIL & GAS I	NSPECTO	R TO BE	NOTIFIEI	)			Name		ON ON RECORD:
by	Name Deo					son H	and C.V. Front	Address	A STATE OF THE STA	1
										MAY 1 1 1983
		Sand	ridge,	W.V. 2	25274			dition in the	dagi oʻzini batir \$.	
5)	PROPOSED	WORK:						I/ Frac	cture or stimulate	OIL & GAS DIVIS
								new formation		
6)	GEOLOGICA	I TARGE					LE	and the second s		EPT. OF M
	17) Estimated						feet	o otherwise a	PREMISELLE LANGUES	of thicker (MT)
								salt,	feet.	
									area? Yes	No_X
0)	CASING AN	D TUBINO	PROGR	AM	22-1-6				margora sulseo i	
	CASING OR	ı	SPI	ECIFICATION		11		GE INTERVALS	CEMENT FILL-UP	PACKERS
	TUBING TYPE	Size	Grade	Weight per ft.	1	Used		Left in well	OR SACKS (Cubic feet)	CC abov (40
-	conductor	Size.	0	pa in	11011	Osca	7 Or Grining	Apper aggain x	- D. acested to a lagra-	Kinds
F	resh water	9 5/8	LS	33#	X		300'	300'	To Surface	
-	oal	Contraction of the Contraction o	PER PARE - SI		SELLE P	B 3 (2)	amia in 2023a	LESS SPRINGER	a participation of the second	Sizes
1	ntermediate	7"	J-55	20#	X		1820'	1820'	100 sks	GT T
-	roduction	4 1/2	ERW	10.5#	X		Back Household	4850'	250 sks	Depths set OR QS Re
	ubing	101-165 Tests		100000	SOF SEE	11.80	e a la la sustantia	The state of the s	SECURITION OF SECURITION	by Rule 15-0
1	iners						ALCOHOL CALLED BY	CONTRACTOR CONTRACTOR	O DAVE WITH THE SELECTED	Perforations:
-									See Sparing St.	Top Bottom
-	1	**************************************	Solution	1000	354.175	9998	allegh je cy	DIN 30 SIGNAM	OR EUR DE LUGARE	rategos (ex.
1)	EXTRACTIO	N RIGHTS	No. 194	20 X 1 12 3 G	III ARCUS	E CONTRACTOR OF THE PARTY OF TH	SEERICAL DA	o appartise by p	ne i Jenatunjeus Po	i Mewate
	Check and pro			Mile Marie Branch (M. 1920) (M. 1940)	CE TOTA					(0.4gr) (0.0)
									right to extract oil or	gas.
2)	ROYALTY P			2-4-1-(c) (1)	through	1 (4). (5	See reverse side for	or specifics.)	n de mind Ameira.	
220,200				arket the oi	l or gas	based up	oon a lease or oth	er continuing contra	ct or contracts providing	ng for flat well royalty or a
	similar provisi	on for con	npensation	to the own						e of oil or gas so extracte
	produced or m	The state of the s	WATER TO STATE OF THE PARTY OF	THE REPORT AND ADDRESS OF THE PARTY OF THE P		C 41	Last legys (Like)	A 661 4 - 14 T	TV 60	
	Required Copi				eded. I	the ans	swer is res, you	may use Affidavit F	orm 1v-60.	rai navab
4)	Copies of this	Permit Ap	plication a	and the encl						vered by hand to the abo
	named coal op Mines at Charl				lessee o	n or bef	ore the day of th	e mailing or deliver	y of this Permit Applic	cation to the Department
	VI	-111	M. OF	Olah ;	0	B 10×8)		a misimul	mund	11/106 4
		vuf 11	Mora 1	0. 198	0	etat, or	The Winds	Signed:	constad Asset	My pre
N	ly Commission	Expires	May 1	0, 1989	9			Its: Desi	ignated Agent	10 / 10 mil
						OI	FFICE USE (	ONLY		
		47-1	05-107	0		CONTRACTOR OF THE PARTY OF THE	RILLING PE			May 13 19 83
ern	nit number	de milit	Chille San					n man din N		01/05/2024
his	permit coverir	g the well	operator	and well lo	ration s	hown be	low is evidence	of permission grants	Date	e with the pertinent legal
uire	ements subject	to the cond	ditions con	ntained here	ein and	on the r	everse hereof. No	otification must be g	iven to the District Oil	and Gas Inspector.
							ts for any permitted work has con		n, the well operator or	his contractor shall notify
op	er district on a	inu gas ms	1.0	10015 DEIOI	e actua	permitt	cd work has con	intenced.)		

1984 Permit expires unless drilling is commenced prior t and prosecuted with due diligence. Fee Bond: Casing 5007 Administrator, Office of Oil and Gas

#### Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
  - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
  - 5) Where well is located
  - 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
  - 7) Use separate sheet if necessary
  - 8) Present surface owner at time application is filed.
  - 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
  - 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
  - 17) Self explanatory
  - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
  - 19) All coal seam depths
  - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
  - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
    - (1)A brief description of the tract of land including the district and county wherein the tract is located; (2)The identification of all parties to all leases or other continuing contractual agreements by which the right
    - to extract, produce or market the oil or gas is claimed;
      (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
    - (4)A brief description of the royalty provisions of each such lease or contract.
  - 22) Code 22-4-11(d) and 22-4-11(e).

19

Date:

- Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

	TIMES	WAIVER			
The undersigned coal operatoramined this proposed well location. If a added to the mine map. The undersigned operator has complied with all applicable.	d has no objection	to the work prop	area of the well loosed to be done	at this location, p	location has been provided, the well
principalities of the browning of which doe differen	drilling is commenced	esino .			Complexed to a series of the s

By

Its \_\_\_\_

#### STERLING DRILLING AND PRODUCTION CO., INC.

ARCADE BUILDING

#### 710 VIRGINIA STREET EAST

#### CHARLESTON, WEST VIRGINIA 25301

(804) 842-0121

State of West Virginia Department of Mines Office of Oil and Gas

Charleston, W.V. 25311	Date <u>MAY 10, 1983</u>
SUBJECT: Oil and Gas Well Permit Application	
REFERENCE: Extraction Rights	DECEVE
COMPLIANCE: Code 22-4-1-(C)	MOV 1 1 1003
Sterling Drilling and Production Co., Inc. Well Nu	mber 792 MAY 11 1983
Lease Number 111-022 Acreage 5	OIL & GAS DIVISION
Lease Date $\frac{6/3/82}{}$ Recording Da	te 3/18/83 DEFT. UF WIINE
Recorded in Book 165 at Page 189	
LESSOR INDEX ON REVERSE SIDE	
LOCATION: BURNING SPRINGS District of WIRT	County
WATERSHED: STRAIGHT CREEK OF LITTLE KA	NAWHA RIVER
QUADRANGLE: 7,5' ANNAMORIAH	
AFFIDAVIT	
I, <u>HARRY L BERGER, JR</u> , an authoric Sterling Drilling and Production Co., Inc., hereby information is true and that the owner or owners of the above described tract will receive minimum one payments from any producing oil and / or gas well contract.	certify that the above for the minerals underlying eighth (1/8) royalty
Signed:	Authorized representative
Notary: Willshie	
My Commission Expires $\frac{5/10/89}{}$	

#### LESSOR INDEX

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	332. 24.
	Education Services

necessary for comments.

DATE

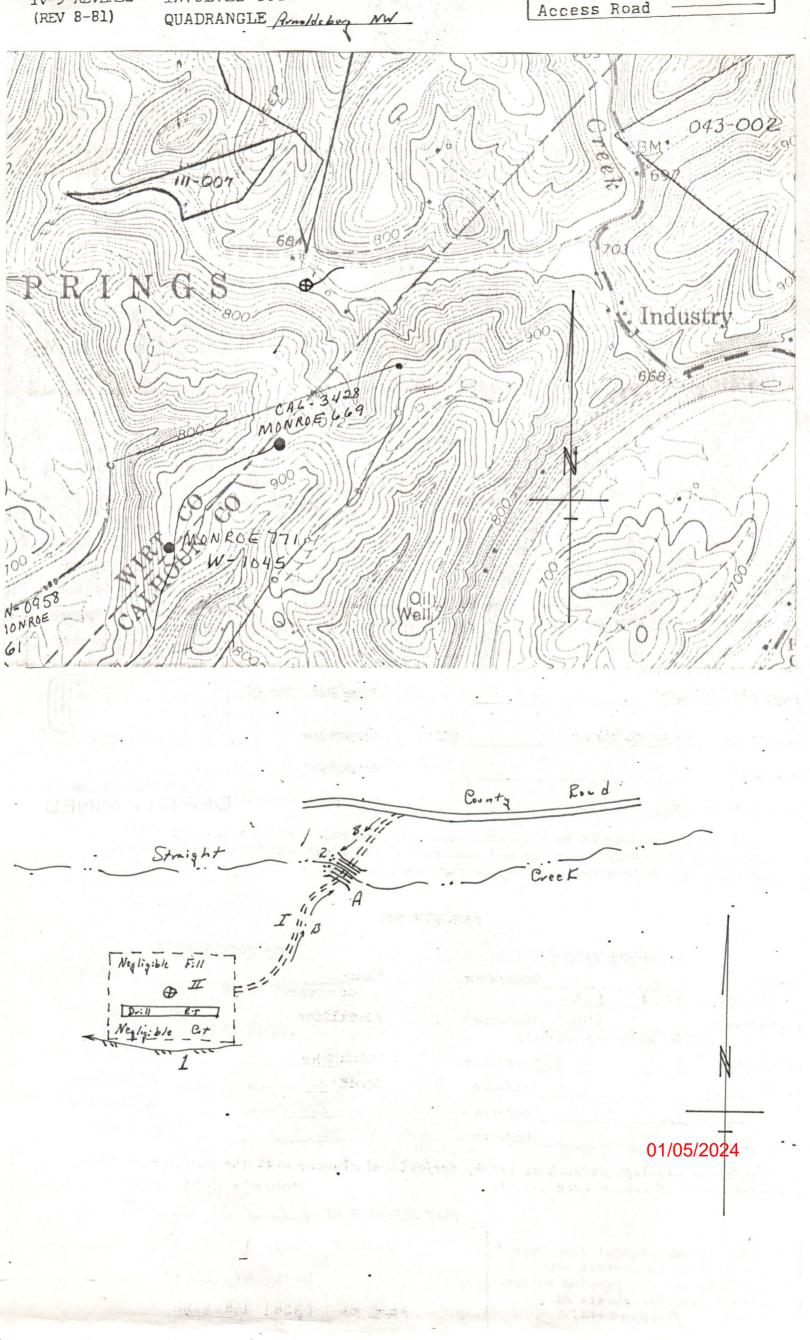
WELL NO.

Sinde of Mest Buginia

Beparlment of Mines Gil und Gas Bivision

## CONSTRUCTION AND RECLAMATION PLAN

TYPENY NAME Sterling Drilling & Prod.	Co WELL OPERATOR Sterling Drilling & Pr
Address 360 Madison Ave NY. NY 10	017 Andress C/O N. D. Delger Ondies
Telephone (212) 949-9100	Telephone (304) 342-0121
	SOIL CONS. DISTRICT Little Language SED
LANDOWNER Column Price	ing Drilling & Prod. CoH.L. Bergerent)
Revegetation to be carried out of	/ V / STD. All corrections.
This plan has been reviewed by Little	le Kanawha son. All corrections. 5-9-83
and additions become a part of this plan:	(Date)
	scrett Newton
	(SCD Agent)
ACCESS ROAD	LOCATION
	Structure Diversion Ditch (1)
Structure Colverts (A)	Structure Viversion Vites
Spacing . Temporary 336"	Material Earthen -
	Page Ref. Manual R-IR
Page Ref. Manual 2.8	
Structure Drainage Ditches (B)	Structure Rip-Rap (2)
	Material Rock
Spacing Roads; de	Page Ref. Manual 2.9
Page Ref. Manual 2.12	Page Rel. Paltal
Structure Cross Ditches - N/A. (C)	Structure
Structure Closs Bitches 1 N/A.	MAY 11 1983
Spacing	OIL & GAS DIVISION
Page Ref. Manual	Page Ref. Manual DEPT. OF MINES
	larly and repaired if necessary. All
-7 tombox at TO DO MIL OUR SUULKE	
cut and removed from the site before dirt	work begins.
	mami (M)
REVELLE	TATION
Treatment Area I	Treatment Area II
or correct to pH 6.5	Lime 2 Tans/acre or correct to pH 6.5
or correct to pH 6.5	Fertilizer 600 lbs/acre
Fertilizer 600 lbs/acre (10-20-20 or equivalent)	(10-20-20 or equivalent)
0 01-0-0	Mulch Hay 2 Tons/acre
7010. 7.0	Seed Drehadgrass 15 lbs/acre
1bs/acre	Seed Orchardenses 15 lbs/acre  Red Clover 4 lbs/acre
The lacre	L. 31 10 lbs/acre
Alsike Closer 4 IDS/ACTE	foil and clovers with the proper bacterian.
*Inoculate all legumes such as vetch, tre Inoculate with 3% recommended amount.	foil and clovers with the proper bacterium.  Moore's Well Services, Inc.
Thorntotte atting of tecome	N PREPARED BY Richard X. Compbell
	V
NOTES: Please request landowners'	ADDRESS Route 1 Rox 30
secdling for one growing season.	Duck, WV 25063
Attach separate sheets as	PHONE NO. (304) 364-5780
MCCERROID 10T COMMENLE.	



BN

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

Act of black class of

Perforations:

 Stage One
 19 holes 4442' - 4749'

 Stage Two
 26 holes 3780' - 4326'

 Stage Three
 21 holes 2925' - 3639'

Treatment:

Stage One

Stage Two

1000 gal 15% HCl; 1356 MSCF  $N_2$ ; BD 3650# 1000 gal 15% HCl: 1379 MSCF  $N_2$ ; BD 3700# 1000 gal 15% HCl; 1396 MSCF  $N_2$ ; BD 2800#

Stage Three

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fres
Sandstone and Shale Salt Sand Sandy Shale Maxon Shale and Lime Big Lime Big Injun Siltstone and Shale Sunbury Shale Berea Sandy Siltstone Gordon Silty Shale Grey Sandy Siltstone Shale	0 1174 1198 1453 1560 1587 1702 1719 2089 2102 2103 2458 2465 4547 4567	1174 1198 1453 1560 1587 1702 1719 2089 2102 2103 2458 2465 4547 4567 4847	gas show 3450' TD 4847
See II Se			

(Attach separate sheets as necessary)

	Sterling Drilling	and Production	Co., Inc.	
	Well Operator	1	01/05/2024	
I	y: Harry L	Berger	o Trailing (NS)	
I	Date: / 9mr.	22,1983		



OIL & GAS DIVISION
DEPT. OF MINES



## State of Mest Airginia Department of Mines

Bepartment of Mines Gil und Gas Bivision

Date	11/22/	83	15.0	
Operati	or's			141
Well No		792		
Farm V	irgil M	onroe		
APT NO	47 -	105	_	1070

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 680.58 WatershedStra				
District: Burn Spring County Wirt		Quadrangle	≥ 7.5' An	namoriah
				10 m
COMPANY Sterling Drilling and Production Co., Inc.				
ADDRESS 710 Va., St, E. Charleston, WV 25301	Casing	Used in	Left	Cement
DESIGNATED AGENT Harry L. Berger, Jr.	Tubing	Drilling		fill up Cu. ft.
ADDRESS 710 Va. St., E., Charleston, WV 25301	Size	Diffing	TI WELL	Cu. II.
SURFACE OWNER Alfred Davis	20-16			
ADDRESS Munday, WV 26152	Cond.			1 (2) 1 (3)
MINERAL RIGHTS OWNER Virgil Monroe	13-10"	2001	2001	
ADDRESS Rt 9, Box 172, Parkersburg, WV 26101	9 5/8	320'	320'	to surface
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8	1841'	1841'	140 sx
Mace ADDRESSRt1, Box5, Sandridge, WV 2527	7	1041	1041	140 5%
PERMIT ISSUED 5/13/83	5 1/2		4005	200 011
DRILLING COMMENCED 6/29/83	4 1/2		4805	200 sx
DRILLING COMPLETED 7/5/83	3		1726	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		4736	
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used	3		
GEOLOGICAL TARGET FORMATION Devonian S	hale	Dep	th 4850	feet
	Rotary X	/ Cabl		
	Salt 11			
Coal seam depths:		and the same of th		e area? NO
	•			derive and the second
OPEN FLOW DATA		,	.1. 4740	£1
Producing formation Devonian Shale		y zone dep		
Gas: Initial open flow Mcf/d				
Final open flow 337 Mcf/d			the state of the s	The same of the sa
Time of open flow between init				
Static rock pressure 800 psig(surface		ement) afte	er_14	5/2024ut ir
(If applicable due to multiple completion				
교육 사람들은 경기를 가지 않는 것이 없는 것이 없는 사람들이 가장 없었다. 그는 사람들이 가장 그렇게 되었다.	Pa	ay zone der		feet
Second producing formation	a challenger			
교육 사람들은 경기를 가지 않는 것이 없는 것이 없는 사람들이 가장 없었다. 그는 사람들이 가장 그렇게 되었다.				Bbl/d

## DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



#### INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEEPT. OF MINES

Permit No. 105-1070 CASING AND USED IN LEFT IN PACKERS Size Kind of Packer\_\_\_ Well No. Size of\_\_\_\_ 10 ering County 81/4\_ Depth set\_\_\_ 65%\_ Drilling commenced. 5 3/16\_ Drilling completed Total depth Perf. top\_\_\_\_ Date shot\_ Depth of shot Perf. bottom\_\_ Liners Used Perf. top\_\_\_ \_/10ths Water in\_ Initial open flow\_\_\_ Perf. bottom\_ Open flow after tubing\_\_\_\_\_/10ths Merc. in\_\_\_\_ Volume\_ Cu. Ft. SIZE No. FT.\_\_\_\_Date CASING CEMENTED\_\_\_\_ NAME OF SERVICE COMPANY lhs. Rock pressure\_ hrs. Oil bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT\_ FEET INCHES Fresh water\_ feet INCHES FEET INCHES feet FEET Salt water\_ feet FEET INCHES FEET INCHES Remarks:

Form 26 2/16/82

#### STATE OF WEST VIRGINIA

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

#### **INSPECTOR'S PLUGGING REPORT**

ermit No.			-		N. P. N.	- 11				
DMPANY			ADDRESS _				N Sept Street			
ARM		DISTRICT .		COUNTY						
	2.34 W	2.48%6	1/2	1 - 1	in the	Ment	Le com			
ling Material Used			tale i							
ner Loc	cation	Amou	ınt	Packer	Loc	cation				
	AND DEPTH PLACED		BRIDG		CASIN	G AND TU	JBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION	ON-LOCATION	RECOVERED	SIZE	LOST			
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The state of the s	I hereby certify I vi	sited the above v	well on this date.							
DATE	,									
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				DIS	STRICT WELL IN	SPECTOR	/2024			

B 4

# STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

## INSPECTOR'S WELL REPORTDEPT. OF MINES

Permit No. 105-1670		Oil or Gas Well			
Company Sterling Drilling & Prode	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKE	ERS
Address Charleston, W.Va,	Size				- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Farm Virgil D. Monroe	16			Kind of Pack	er
Well No. 792	10			Size of	
District Burning Springsbunty Wist	81/4				
Drilling commenced	6%			Depth set	
Drilling completed 76/83 Total depth	5 3/16 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. FT	Date
Rock pressurelbshrs.	NAME OF SER	VICE COMPA	NY		
Dilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	_INCHES
resh water <u>feet</u> feet	FEET_	INCH	IES	FEET	_INCHES
Salt water <u>feet</u> feet	FEET_	INCH	IES	FEET	_INCHES
Drillers' Names Status Report					Parantis
Pipe line Right of Way re seeded + mulched. Pipe to be seeded + mulched	unning p e Like of yet.	eeded t	to S	hed. traight	creek
5/29/84	0			Danaha	

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

## **INSPECTOR'S PLUGGING REPORT**

COMPANY			ADDRESS	0/0,	1 36	10000
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illing Material Used	The other commences are not a second personal pe			1/4		
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iner		Amou	7,00,0	1	cation	Name of
and the state of t	ND DEPTH PLACED		BRIDGES		G AND TU	T
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
				September 1	No. Property	1/20
and Pepel Report					10	
			232.82		-	
081 3313				1 8 3/1/2		1984 N. 1984
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Remarks:						
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			well on this date.			

N S

105-1078

#### STATE OF WEST VIRGINIA

## DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

JUL - 6 1983

OIL & GAS DIVISION
DEPT. OF MINES

#### INSPECTOR'S WELL REPORT

rermir No. 10 3 7					Oil or	Gas Well	
Company Ster	ling		CASING AND TUBING	USED IN DRILLING	LEFT IN	PACK	ERS
Address			Size				
Farm V. Mo	nue		16			Kind of Pacl	cer
Well No. 792			13				
District Burning &	Spring County_	Wit	81/4			Size of	
Drilling commenced	6-29-8	3	6%			Depth set	
Drilling completed	Total de	pth	5 3/16				
Date shot	Depth of sho	t	2			Perf. top Perf. bottom	
Initial open flow	/10ths Wa	ter inInch	Liners Used		~	Perf. top	
Open flow after tubing_	/10ths Mer	re. inInch				Perf. bottom.	
/olume		Cu. Ft.	CASING CEMEN	NTED	SIZE	No. FT	Date
lock pressure	lbs	hrs.	NAME OF SER	VICE COMPA	NY		
0:1	b	bls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	_INCHES
resh water	feet	feet	FEET_	INCH	ES	FEET	_INCHES
alt water	feet	feet	FEET_	INCH	ES	FEET	_INCHES
rillers' Names	4 ent 8	/					
emarks:				Charles of the Control of the Contro			

6-29-83

Des M04/05/2024

DISTRICT WELL INGBOOM

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS		,	
ARM		DISTRICT	C	OUNTY		
illing Material Used						
	ation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES		G AND TU	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
	· · · · · · · · · · · · · · · · · · ·					
		and the second s				
				<del>                                     </del>		
rillers' Names						
emarks:				* **		

B'

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION
DEPT. OF MINES

### INSPECTOR'S WELL REPORT

Permit No. 105 - 1070			Oil or	Gas Well	
Company STERLING	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKER	łs
Address	Size			Wind of Dodge	
Farm V. MONROE  Well No. 292	13		-35	_ Kind of Packe	r
District BURNING SPRING Ounty WIRT	81/4			Size of	
Drilling commenced 6.29.83	5 3/16			Depth set	
Drilling completedTotal depth	3			Perf. top	
Date shot	Liners Used			Perf. bottomPerf. top	
Open flow after tubing/10ths Merc. inInch				Perf. bottom_	
VolumeCu. Ft.				No. FT	Date
Rock pressurelbshrs.	NAME OF SEF				
Oilbbls., 1st 24 hrs.  Fresh waterfeetfeet					
Salt waterfeetfeet	FEET_	INCH	IES	FEET	INCHES
Drillers' Names HURT #8					2330

Remarks

320' of 93/" cosing' 125 SKS, DOWELL, 6-30-83

6-30-83

DIS MASSISO24

DISTRICT WELL IMPRETOR

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

ermit No.		9 0		Wel	I No	
OMPANY			ADDRESS			
ARM		DISTRICT	(	COUNTY		el .
illing Material Used						
iner Loc	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
						_
						-
		1				Maria America
illers' Names						
marks:		1				-

\_ I hereby certify I visited the above well on this date.

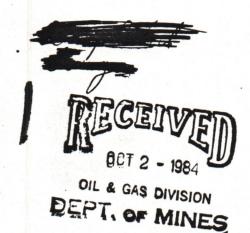
DATE

IV-20 Obverse 1-84



# State of West Virginia Department of Mines Oil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



COMPANY Sterling Drilling & Production Co. PERMIT NO 105-1070 (5-83)

710 Virginia Street, East FARM & WELL NO Monroe #792

Charleston, West Virginia 25301 DIST. & COUNTY Burning Spg./Wirt

RULE	DESCRIPTION	IN COMP	LIANCE NO
23.06	Notification Prior to Starting Work	120	NO
25.04	Prepared before Drilling to Prevent Waste		- 100
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		- ,
15.03	Adequate Fresh Water Casing		_
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		_
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	-	
25.01	Necessary Equipment to Prevent Waste	1/	
23.04	Reclaimed Drilling Pits		-
23.05	No Surface or Underground Pollution		_
23.07	Requirements for Production & Gathering Pipelines		_
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	V	-

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

DATE 9/24/84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

Administrator-Oil & Gas Division

November 8, 1984

TMS/chm

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

PRICE	E UNDER	THE NATURA	L GAS POLICY	ACT (NGPA)	- L
(If not assigned, leave blank, 14 digits,	)		47- 105 - 10	070 -	
2.0 Type of determination being sought: (Use the codes found on the front	1		107		
of this form.)	1			3	
3.0 Depth of the deepest completion			Section of NGPA	Category Code	
or 107 in 2.0 above.)			484	foet	
4.0 Name, address and code number of applicant: (35 letters per line		conling Dailli	a and Duadua	tion Co. Inc.	
msximum. If code number not	Nam	terling Drillin	ig and Produc	ction co. Inc.	01808
available, leave blank.)	710 Street	Virginia St.	East, Arcade	Building	Seller
		rleston, WV 25	301		
5.0 Location of this well: [Complete (a)	City			State Z	o Code
or (b).]		Running	Chuium Din		
(a) For onshore wells	Field	Name .	Springs Distr	ict	
(35 letters maximum for field	!	Wirt ·			
name.)	Coun				
(b) For OCS wells:				State VIV	-
	Area	Varne			
	1			Block	Number
		D	te of Lease:		
	i	1 1	I I I I I		
Ic. N	Free state of	Mo.	Day Yr.	200	
(c) Name and identification number	1			OCS Lesse Numbe	r
of this well: (35 letters and digits maximum.)		Monroe #7	92		
(d) If code 4 or 5 in 2.0 above, name	•		A STATE OF THE STA		
of the reservoir: (35 letters	1			1	
msximum.)	i —				
(a) Name and code number of the	-				and the state of the
purchaser. (35 letters and digits	1				the state of the s
meximum. If code number not		LIND	EDICATED		
available, leave blank.)	Name	UNL	EDICATED		
(b) Date of the contract:				record and	Buver Co
and the same of th					
			A Charles of the Char	444	
(c) Estimated total annual production		and the same of the same of the same	Mo. Dav	Yr.	and the second second
from the well:			10		
				Million Ca	ibic Feet
				(c) All Other	
		(a) Bass Price	(b) Tax	Prices (Indicate	(d) Total of (a
Contract price:				(+) or (-).]	(b) and (c)
(As of filing one Committee				1-1.1	
cecimel places.)	S/MMBTU	5 6 6 6			The stage of the stage of the
Maximum lawful rate:	+				
(As of filing date. Complete to 3	S/MMBTU	5 66 6			
ceamai places.)		5 6 6 6	- was a stage of the stage of t	And the second s	
Person responsible for this application:					
Say.	Harry	L. Berger, J	r.		
Agency Use Only	Name 1	1 /	)	Designa	ited Agent
Received A Cuty 291983	He	und K	en as	Title	
Received by FERC	Signature	1 1.16	- igen	01	/05/2024
THE PROPERTY OF THE PROPERTY O	Novembe	er 22, 1983		304_342_0	121

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

Form Approved OMB No. 1902-0038 (Expires 12/31/84)

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

#### GENERAL INSTRUCTIONS

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

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

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

#### SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Semion of NGPA . (a)	Category Code (b)	Description	
102	1	New OCS lease	
102	2	New onshore well (2.5 mile test)	
102	3	New onshore well (1000 feet deeper test)	
102	4	illew onshore reservoir	
102	5	New reservoir on old OCS lease	
103		New onshore production well	
107	0	Deep (more than 15.000.feet) high-cost cas	
107	1	Gas produced from geopressured brine	
107	2	Gas produced from coal seams	
107	3	Gas produced from Devonian shale	
107	5	Production ennancement gas	
107	5	New tight formation cas	-
107	7	Recompletion tight formation cas	
108	0	Stripper well	
108	1	Stripper well — seasonally affected	
108	2	Strioger well — enhanced recovery	
109	3	Stripper well — temporary pressure buildup	
108 j	4	Stripper well — protest procedure	

Contract Date
(Mo, Da, Yr)
(a)
(b)
(b)
(c)

TTarks:

01/05/2024

PARTICI	PANTS:	DATE: FLD 0 1984	BUYER-SELLER CODE
WEI.L	OPERATOR: Sterling	g Drilling and Production Co. Inc.	018084
		Undedicated	
OTHER	: · · · · · · · · · · · · · · · · · · ·		
_	Y.	Dev.	The second secon
1	a. Department of Mines, Oil (		
	ELL DETERMINATION FILE N	APPR	OVED
8:	1129-107-105=	1070	
Uso	Above File Number on all Co	mmunications FEB 2	2 1984
Re	elating to Determination of th	his Well	
	CHECK EACH 1	ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM N	•	TIEM NO COMPETE ON NOTE WHAT 15-PISSING	
		Items not completed - Line No.	-
		Harry L. Berger, Jr.	
4.	IV-6 Well Plat		
5.	IV-35 Well Record	Drilling	pening
6.		Gas Only Was Oil Produced?	
7.	IV-39 Annual Product	ion years	
8.	IV-40 90 day Product	ion Days off line:	
		or certification. Complete?	
10-17.	IV Form 51 - 52 - 53	5 - 54 - 55 - 56 - 57 - 58 Complete?	_ Affidavit Signed
18-28.	Other: Survey	Logs Geological Charts	
	Structure	Map 1: 4000 Map Wel	
(5)	Date commenced: 6 -	29-83 Date completed 7-5-83 D	eepened
(5)		4749	
(5)		Devonian Shale	
(5)	Final Open Flow:	337MCF	
(5)	After Frac. R. P	800# 144 hrs.	
(6)			
(7)	Avg. Daily Gas from A	Annual Production:	
(8)	Avg. Daily Gas from 9	90-day ending w/1-120 days	
(8)	Line Pressure:		PSIG from Daily Repor
		From Completion Report	
10-17.	Does lease inventory	indicate enhanced recovery being done $\sqrt[]{0}$	
10-17.	Is affidavit signed?	Notarized?	
		th the Department confirm the submitted infor	01/06/2027
Addition	nal information	Does computer program confirm?	01/05/2024
Was Dete	ermination Objected to	By Whom?	
			79

DATE: FEB 8 1984

BUYER-SELLER CODE

STATE A	PPLICATION FOR WELL CLASSIFICATION	No. 47 - 105 - 107 State County Fer Previous File No.	mit
WELL OPERATOR Sterling Drilling a ADDRESS 710 Virginia St., East	end Production Co., Incessionated AGENT	Harry L. Berger, Jr.	ble)
Charleston, WV 25301		Drilling & Production Co., , Charleston, WV. 25301	Inc.
Gas Purchase Contract No.	and Date		-
Heter Chart Code	(Month, day and y	rear)	
Name of First Purchaser	UNDEDICATED		
	(Street or P. O. box)		
(City)	(State) (Z	ip Code)	
FERC Seller Code 018084	FERC Buyer Code		
TYPE OF DETERMINATION BEING SOUGHT:	107	2	
(1) Initial determination (See F. (2) Determination that increased recovery technology. (3) Determination of a seasonall	ERC Form 121.) Section of MGPA production is the result of enhance	Category Code	
	Harry L. Berger,	, Jr. Agent	
	Name (Print) Lawy L. Ben Signature	ger	
	Sterling Drilling	& Production Co., Inc.	
		arleston, WV 25301	
	(304 342-0121 Phone Number	,	
(Certificate of Proof of Service to Pu			
(All of the above to be completed by the	he Operator/Applicant)		
(To be completed by Jurisdictional Agen purchaser, if known).	ncy. Executed copy to be returned a	to Operator/Applicant and .	-
The Department of Mines had been seen to be the requirements of Second (NGPA): \[ \]\]\ lor for determination that its property of the control of the	has received a request. for certication under the Natural increased production is the result or determination of a seasonally affer	ural Gas Policy Act of 1976.	•
All interested parties are he the office of the Oil and Gas Division be heard there will be a public hearing	ereby notified that on the day	of	
This Application is assigned			
	n submitted indicates the well is		
Unless objections are timely ays, a hearing will not be held except to to determination.	filed or a request for a hearing is ton ex parte motion of the departmen	made within fifteen (15) nt and the matter will	
	WEST VIRGINIA DEPARTMENT	OF MINES	
ate received by NOV 0 1983 urisdictional Agency	ByTitle	01/05/2024	

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Sate November 22, . : 9 83

Monroe #792

IDerator's Well Mc

FORM 1V-48WC [12-78]

	APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT
	Operator: Sterling Dilling and Production Co. Inc. Agent: 4.L. Berger
	Type Determination being sought - 107 (Devonian Shale)
	API Well No.: 47-105-1070 Well Name: Monroe 792
	West Virginia Office of Oil and Gas County: 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 (Shal 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 = 160 * API Units 2. Remarks:
	API scale = 0 - 200 units
	B Gamma Pay Ioc Walnes of Co.
	B. Gamma Ray Log Value at 0.7 x Value at Base Line
	1. GR Value = 160 * API Units 2. Calculation: 0.7 (GR Value at Base Line) 0.7 (160*) = 1/2 API Units
	III. Intervals with GR index less than $0.7 \times (Value at Base Line)$ :
	Interval Thickness Feet of less than* of Interval 0.7 (Shale Base Line) From** To*** Feet Feet
	2106' 4847'
	Total Danadal T
т	Total Devonial Interval 2741
•	Cotal Less Than 0.7 (Shale Base)
**	Less Than 0.7 (Shale Base Line) = $\frac{.009}{}$ x 100 = $\frac{0.9}{}$ %

01/05/2024

\*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

DEPARTMENT OF MINES OIL AND GAS DIVISION Operator's Well No. Monroe #792

API Well No.

47 - 105 - 1070 State County Permit

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

NGPA Section	on 107
I	DESIGNATED AGENT Harry L. Berger, Jr.
	ADDRESS Arcade Building; 710 Virginia St., E
	Charleston, WV 25301
1	LOCATION Elevation 680.58
WELL OPERATOR Sterling Drilling and Production	on WatershedStraight Ck of L. Kanawha River
ADDRESS 710 Virginia St., East	Inc. Burn Spr. • County Wirt Quad. 7.5' Annamoriah
Charleston, WV 25301	Gas Purchase
INDEDICATED	Contract No.
ADDRESS	Meter Chart Code
	Date of Contract
* * *	* * * *
Date surface drilling began: 6/29/83	
Indicate the bottom hole pressure of the we	ll and explain how this was calculated.
Bottom Hole Pressure. PSIA Pf = Pwe XLG	SS
1071.	$57$ . $x = \frac{1}{53.34} \times \frac{557}{5000337}$
$t = 60 + (0.0075 \times 40^{14}) + 459.67 = 3$	$\frac{3}{5}$ / $\frac{1}{53.34}$ $\frac{3}{53.34}$
$Pf = 800 \times 2.7183 \cdot 0000337 \times 4721$	x 1690 x 1.07 = 1000 PSIA
	DAVIT
of potentially disqualifying non-shale foot	index of less than 0.7 if a Gamma Ray log (A) has been filed, or as indicated by the 1: I have demonstrated that the percentage
OF THE WINCE WINCINIA	
STATE OF WEST VIRGINIA	
COUNTY OF Kanancha, TO-WIT:  I, David M. Goldson, a Notary	Public in and for the state and county
for sortify that Harry L. Berger	r. Jr, whose name is signed to
the writing above, bearing date the 27	day of Marlonhy, 1985, has
acknowledged the same before me, in my cou	nty aforesard. 01/05/2024
Given under my hand and official seal this	22 day of November, 1985.
My term of office expires on the 10 day	of May 1989
(NOTARIAL SEAL)	Notary Public

E-6

Loren B. Howley
Attorney

P.O. Box 580 Grantsville, WV 26147 (304) 354-7179

May 10, 1984



OIL & GAS DIVISION
DEPT. OF MINES

Mr. Harry L. Berger, Jr. Sterling Drilling and Production Co. 710 Virginia Street, E. Arcade Charleston, West Virginia 25301

Re: Sterling Well No. 792
Lease No. 111-022
API No. 47-105-1070
Alfred Davis Surface Property
Straight Creek of Little Kanawha
River, Burning Springs District,
Wirt County, West Virginia

Dear Mr. Berger:

Sterling Drilling and Production Company has been a visible and active presence in this part of West Virginia for the last couple of years. I am well aware that it prides itself on its reputation as a responsible driller. It is hard to reconcile this reputation with the experience of Mr. Alfred Davis, a surface owner in Munday, on the Wirt County/Calhoun County boundary in Wirt County, West Virginia.

In late June, 1983, Sterling drilled two wells on Mr. Davis' property. Neither of these wells have been reclaimed yet. In the process of drilling these wells, Sterling destroyed the low water crossing which provides vehicular access to Mr. Davis' home. Although Sterling built a footbridge across the creek, Mr. Davis has lost the ability to drive to and from his home. Sterling also built a road around a hill, in a pasture, to Well No. 791; this road has divided the pasture and prevented access between various portions of it. The road has not been reclaimed either. Finally, Sterling built a pipeline between two wells, connected to a main pipeline to an adjacent tract of land, none of which has been reclaimed.

Mr. Davis has suffered property damage, annoyance and inconvenience as a result of Sterling's activities, and failure to reclaim, on his property. Sterling's actions are a clear violation of its common law duty to complete a well within a reasonable length of time, and its statutory duty to reclaim the wells within six months. Also, Mr. Davis has



OIL & GAS DIVISION DEPT. OF MINES

a claim for damages, pursuant to West Virginia Code Chapter 22 Article 4C.

Ed Hazelrigg, a landman for Sterling, has told Mr. Davis that Sterling "will get to it", but Mr. Davis has yet to see any reclamation on his property. Mr. Davis requests that Sterling build a subterranean or regular bridge for vehicular use across the creek to his home, immediately reclaim the two well sites on his property and the road across his pasture, and fertilize, seed and mulch the pipelines across his property.

Please give this matter your immediate attention. Your prompt response to Mr. Davis' concerns would save both Mr. Davis and your company further expense and aggravation.

If you have any questions regarding these matters, do not hesitate to contact me.

Very truly yours,

LOVEN B. Howley

Loren B. Howley

LBH: da

cc: Sterling Drilling & Production Co. 360 Madison Ave., Fifth Floor New York, New York 10017

Alfred Davis Rt. 1 Box 42 Munday, WV 26152

Mr. Ted Streit, Administrator Division of Oil and Gas WV Department of Mines 1613 Washington Street, East Charleston, WV 25311

Deo Mace Oil and Gas Inspector Rt. 1 Box 5 Sand Ridge, WV 25274

