Date:	August	20	, 19	82	
Operate Well N	or's	#111	1218-2		
A DI W		(	085	5848	

County

Permit

State .

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

### OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE:	Oilxx/ Gas/	
	(If "Gas", Production/	Jnderground storage/ Deep/ Shallow/)
LOCATION:	Elevation: 850'	Watershed: Buky Run
	District: Grant	County: Ritchie Quadrangle: Cairo 71g'
WELL OPERA	TOR PETROLEUM DEVELOPMENT CORP	
Address	PO Box 26, 103 East Main Str	
	Bridgeport, West Virginia 26	Bridgeport, West Virginia 26330
OIL & GAS ROYALTY OW	NER Griffin Producing Company	COAL OPERATOR
Address	320 South Bost, Suite #150	
11441033	Tulsa, Okl. 47103	Audiess
	600	
Acreage		COAL OWNER(S) WITH DECLARATION ON RECORD
SURFACE OW	NER Raymond McVay	Name
Address	Rt 1	Address
	Cairo, West Virginia 26337	
Acreage	110.37	NameAUG_7.0
FIELD SALE (	(IF MADE) TO:	Address
Address_	area Tarrest	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
motes		COAL LESSEE WITH DECLARATION ON RECORD:
OIL & GAS IN	ISPECTOR TO BE NOTIFIED	Name
Name	Samuel N. Hersman	Address
Address	PO Box 66	
	Smithville, West Virginia	26178
other contract	x / dated June 4th , 19	r gas purposes at the above location under a deed/ lease
	ease, or other contract has been recorded:	
Recorded on	June 29th, 19_82 , in the office of	he Clerk of the County Commission of Ritchie County, W
Va., in	Book 145 at page 6	1 A permit is requested as follows:
		_/ Redrill/ Fracture or stimulate/
	Plug off old formation/	Perforate new formation/
	Other physical change in well (spec	ify)
100	-planned as shown on the work or	der on the reverse side hereof.
The above nam	ned coal operator, coal owner(s), and coal less	ee are hereby notified that any objection they wish to make or are required
make by Code \$2	22-4-3 must be filed with the Department of	Mines within fifteen (15) days after the receipt of this Application by the
Department.		
Copies of this P	Permit Application and the enclosed plat and r	eclamation plan have been mailed by registered mail or delivered by hand

the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to

the Department of Mines at Charleston, West Virginia. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMIS-

1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BUND

PETRODEUM DEVELOPMENT CORPORATION

04/12/2024

of Operations

Date:

### PROPOSED WORK ORDER

# THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

				Ad	dress				
								N HS TOO THE SECOND	we will be a
FOI OGICAL	TARGE	T FORM	IATION	1	Iarce	llus Shale	9		
				-				y / Cat	ole tools
								10 feet.	
									/ Nox
SING AND	TUBING	PROGI	RAM						
SING OR	SPEC	Grade	ONS Weight per ft	New	Used	FOOTAGE For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
nductor	16"	Н	an an		х	30'	30'		Kinds
esh Water	11 3/4	H-40	44#	x	M	240'	240'	cement to sur	ace
al			-4 			461			Sizes
ermediate	8 5/8	H-40	23#	x	27 15	1800'	1800'	cement to sur	ace
oduction	4 1/2	J-55	10.5#	x		5900'	5900'	500 sks	Depths set
ibling	588F0					103227			
ners AOI8	VIC 8AS	MA III	7						Perforations:
egy n						2800			Top Bottom
nrevi	iously paid	on the s	ame well	, the f	ee requ y wate	uired by Code	§ 22-4-12a, and elling within 20	22-4-12b and Regular (v) if applicable, the confidence of the propose	consent required by
THIS PERM ALL PROV	separate F art of the v	BE POS BEING IN	TED AT ACCO	THE VERDAN	VELL SI CE WI	TH CHAPTER	d as such on the	e Form IV-2 filed in co	or stimulating is to nnection therewith.
THIS PERM ALL PROVE	SEPARATE F AIT MUST VISIONS E A OF THE	BE POS BEING IN W. VA. dr	TED AT ACCOME	THE VICTOR LC	is soug	TH CHAPTER ON IS HEREB	22, Y	e Form IV-2 filed in co	or stimulating is to nnection therewith.
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THIS PERM ALL PROVE	SEPARATE F AIT MUST VISIONS E A OF THE	BE POS BEING IN W. VA. dr	TED AT ACCOME	THE VICTOR LC	is soug	TH CHAPTER ON IS HEREB	22, Y	e Form IV-2 filed in co	or stimulating is to nnection therewith.
THIS PERM ALL PROVE	AIT MUST //SIONS E OF THE D FOR	BE POS BEING IN W. VA. dr	TED AT ACCORD IT I ACCORD IT I I I I I I I I I I I I I I I I I I	THE WRDAN	VELL SI CE WII DCATI IS PER BY	TH CHAPTER ON IS HEREB MIT SHALL E 5-3-83	22, Y EXPIRE	e Form IV-2 filed in co	e who has recorded a
THIS PERM ALL PROVE	AIT MUST //SIONS E OF THE D FOR	BE POS BEING IN W. VA. dr	TED AT ACCORD IT I ACCORD IT I I I I I I I I I I I I I I I I I I	THE WRDAN	VELL SI CE WII DCATI IS PER BY	TH CHAPTER ON IS HEREB MIT SHALL E 5-3-83	22, Y EXPIRE  or and by any contribution of the contribution of th	oal owner or coal lesses fifteen (15) days of	e who has recorded a receipt thereof.
THIS PERM ALL PROVE ARTICLE 4 APPROVE IF OPERAT BY	AIT MUST //ISIONS E I OF THE D FOR FIONS HA	BE POS BEING IN W. VA. dr VE NOT	TED AT ACCORDER TO THE ACCORDE	THE WRDAN THE LO THE THE LO THE THE LO THE LO THE THE LO THE	VELL SI CE WII DCATI IS PER BY seed by to	TH CHAPTER ON IS HEREB MIT SHALL E 5-3-83  The coal operate termit is to be	22, Y EXPIRE or and by any contribution in the	oal owner or coal lesses fifteen (15) days of	e who has recorded a

IV-9 (Rev 8-81)



DATE 8-18-82 WELL NO. 111218-2

## State of Mest Mirginia API NO. 47 - 085

Bepartment of Mines
(Bil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp. D	ESIGNATED AGENT Toba Mitchell
Address P.O. 26 BRIDGE PORT, W. Va. 26330	Address F.O. 26 BRIDGEPORT, W. 1/a. 163:
Telephone 842-6256	Telephone 842-6256
LANDOWNER ROYMOND MCVAY	SOIL CONS. DISTRICT / Hele Kann by
Revegetation to be carried out by SeeDin	VG Contractor (Agent)
This plan has been reviewed by 1,11/e	Kanawia SD All momentions
and additions become a part of this plan: 8-	19-82
	(Date)
Jan	(SC) Agent
ACCESS ROAD	
	LOCATION
Structure DRAIN PIDE (A)	Structure KIP-RAP (1)
Spacing (min. 12" I.)	Material Stone
Page Ref. Manual 2.7	Page Ref. Manual 2.9
Structure DRAINAGE DITCH (B)	Structure Diversion Ditch (2)
Spacing NA Page Ref. Manual 2.12 (B) 1982	Material Earthen
Page Ref. Manual 2.12 RIC 3 0 1982 Structure AUG 3 (CAS DIVE	Page Ref. Manual 2:12
Structure (CLS OF)	MARCO
Spacing Spacing	(3)
- WA	Material
Page Ref. Manual	Page Ref. Manual
All structures should be inspected regularly commercial timber is to be cut and stacked and cut and removed from the site before dirt work	l all brush and small timber to be
REVEGETATIO	en e
Treatment Area I	Treatment Area II
Lime 3 Tons/acre	Lime 3 Tons/acre
or correct to pH 6.5	or correct to pH 6.5
Fertilizer 600 lbs/acre (10-20-20 or equivalent)	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
Mulch WAy - Z Tons/acre	Mulch 7/44-2 Tons/acre
Seed* ORChard Grass- 12 lbs/acre	Seed* Orchard Grass-12bs/acre
LADina Clover- 3 1bs/acre	LADina Clover - 3 1bs/acre
lbs/acre	lbs/acre
*Inoculate all legumes such as vetch, trefoil Inoculate with 3X recommended amount.	and clovers with the proper bacterium.
	PARED BY Lave T. 2004/12/2024
MOTES: Please request landowners!	ADDRESS P.O. 26
seedling for one growing season.	Sudgeport W. Va. 26330
Attach separate sheets as necessary for comments.	ONE NO. 842-6256



### Petroleum **Development** Corporation

103 East Main Street P. O. Box 26 Bridgeport, West Virginia 26330

Phone: 304-842-3597

State of West Virginia Department of Miens Oil and Gas Division 1615 Washington Street East Charleston, West Virginia 25311

Attention: Mr. Ted Streit

RE: House Bill #1254

Dear Mr. Streit:

With regards to the payment to be made to the royalty owner on this property, please be advised that the lease does not provide for a flat well royalty or any similar provision for compensation. The royalty on this lease is based on volume of oil or gas to be extracted, produced or marketed.

Very truly yours,

PETROLEUM DEVELOPMENT CORPORATION

John R. Mitchell

Area Manager of Operations

JRM/mig

RECEIVED

AUG 3 0 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

CAVINDAM.

AUG 3 0 1982 OIL AND CAS DIVISION WYSCAFTASH OF MIES

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

		ACID (Bbls)	N <sub>2</sub> (Mcf)	CO <sub>2</sub> (1000 lbs)
1st Stage	46 perfs (3704-4819)	7	425	26
2nd Stage	37 perfs (3038-3668)	6	420	26 **
3rd Stage	28 perfs (2376-2832)	5	322	20 **

\*\* 500 gal. paraffin inhibitor.

### WELL LOG

CORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
K.BG.L. Sand, shale, red rock Big Lime Big Injun Squaw Sand, shale Weir Sand, shale Sunbury shale Berea Sand, shale Gantz Sand, shale Gordon Sand, shale Huron Java Angola	0 10 1685 1788 1884 1899 2026 2100 2237 2251 2270 2363 2417 2660 2675 3262 4401 4770	10 1685 1788 1884 1899 2026 2100 2237 2251 2270 2363 2417 2660 2675 3262 4401 4770 4873 T.D.	gas @ 1788' 44/10 thru 7" H <sub>2</sub> O gas @ 1850' 80/10 thru 7" H <sub>2</sub> O gas @ 1882' 80/10 thru 7" H <sub>2</sub> O gas @ 3687' 4/10 thru 7" H <sub>2</sub> O gas @ T.D. 4/10 thru 7" H <sub>2</sub> O
4 PLANT TO THE			
	Albania Mari		
WITH THE THE PROPERTY OF THE P			

(Attach separate sheets as necessary)

Petroleum Development Corporation
Well Operator

By: 04/12/2024

Date: March 25, 1983

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."



IV-35 (Rev 8-81)

# RECEIVE State of Mest Virginia

MAR 2 8 1983

Bepartment of Mines Gil und Gas Bivision

Operator's Well No. #	G-1 ,		
Farm Griffi	n Produc	cing	
APT No. 47	- 085	- 5848	

January 21, 1983

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 850' Watershed	Buky Run			
District: Grant County Rit	chie	Quadrangle	Cairo	7½'
COMPANY Detection Development Company in				
ADDRESS P.O. Box 26, Bridgeport, WV 26330				Cement
DESIGNATED AGENT John R. Mitchell	Casing	Used in	Left	fill up
ADDRESS P.O. Box 26, Bridgeport, WV 26330	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER Raymond McVay	Size 20-16			
ADDRESS Rt. 1, Cairo, W 26337	Cond.			Cement to
MINERAL RIGHTS OWNER Griffin Producing Co.	13-10"	20'	20'	Cement to surface.
ADDRESS Tulsa, OK 47103	9 5/8	9.5		
OIL AND GAS INSPECTOR FOR THIS WORK Samuel	8 5/8	981	981	230 sks.
Hersman ADDRESS POBox 66, Smithville, WV	7			
PERMIT ISSUED 8/30/82 26178	5 1/2			
DRILLING COMMENCED 1/8/83	4 1/2	4828	4828	485 sks
DRILLING COMPLETED 1/13/83	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON				-
GEOLOGICAL TARGET FORMATION Marcellus Shall	Le	Dep	<b>th</b> 590	00 feet
Depth of completed well 4873 feet	Rotary X	Cable	e Tools_	
Water strata depth: Fresh feet;	Salt	feet		1
Coal seam depths: N/A	_ Is coal	being min	ed in the	area? No
OPEN FLOW DATA			2	
Producing formation Devonian Shale	Pay	zone dep	th 2376-4	4819 feet
Gas: Initial open flow Mcf/d				
Final open flow 210 Mcf/d	Fir	al open f	low 0	Bb1/d
Time of open flow between ini-	tial and fi	nal tests	ho	ours
Static rock pressure 320 psig(surface	ce measuren	ment) afte	r_2 <b>A1hp</b>	psosput in
State for pressure 520 psig (surface			0-1/12	1/2024
(If applicable due to multiple completion		zone dep	th	feet
	Pay			
(If applicable due to multiple completion				Bb1/d
(If applicable due to multiple completion Second producing formation	Oil: Ini	itial open	flow	

(Continue on reverse side)

# STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

# RECEIVED

JAN 1 7 1983

Samuel M. Heisman

### INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Permit No. 85	3848		•		r Gas Well
Company Letro	leum Development Con	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address		Size			Acres per la
Farm Raymon	of McVay	16		Contract the Contract of Con-	Kind of Packer
Well No. 11/21	8-2	10			Size of
District Gran	f County Ritchie	81/4			5720
Drilling commenced	1-8-83	65%			Depth set
Drilling completed_	Total depth	5 3/16		- X	
		3	· . · · · · · · · · · · · · · · · · · ·		Perf. top
	Depth of shot	2			Perf. bottom
Initial open flow	/10ths Water inInch	Liners Used			Perf. top
Open flow after tubin	/10ths Merc. inInch				Perf. bottom
Volume	Cu. Ft.	CASING CEMEN	NTED	_SIZE	No. FTDate
lock pressure	lbshrs.	NAME OF SER	VICE COMPA	NY	
)il	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water	feetfeet				FEETINCHES
Salt water	feetfeet	FEET			
a a					FEETINCHES
Orillers' Names	rby Espew / Mason Fin	reeman / K	odert It	eater	
emarks:	Oling Rig # 6 2	affers her	Billy	Leater	
	Pan 966 foot el	85 casi	nap		
2	Pan 966 foot of Falliburton ran 2	30 sock	s total	1	
			,		

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

## INSPECTOR'S PLUGGING REPORT

Permit No	Well No.					
COMPANY			ADDRESS	requests adjected to 100 at a	A10000 TW	
FARM		DISTRICT	(	COUNTY		N
Filling Material Used.						
Liner	Location	Amount	Packer	· ·		
	SED AND DEPTH PLACED	The second second second	BRIDGES		G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
				-		
	And the second					
			,			
Orillers' Names					,	
Remarks:						
DATE	I hereby certify I	visited the abov	e well on this date.			

DOM 1/2 9 /20 2 /4 CTO-

# DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

# RECEIVED

JAN 1 7 1983

### INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

Permit No. <u>85-5848</u>				r Gas Well
Company Petroleum Dev. Corp.	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address	Size			Service and the service of the servi
Farm Baymond McVay	16			Kind of Packer
rain 1/2 grown m Vag	13	en e		
Well No. ///2/8-2	10	280.6	S. part and and	Size of
District Grant County R.T.	81/4	2 30 30 30 30		- 821 
Drilling commenced 1-8-83	65%			Depth set
	5 3/16		7	
Drilling completedTotal depth	3			Perf. top
Date shotDepth of shot	2		n to the face boys	Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch		AARTON CONTRACTOR CONTRACTOR		Perf. bottom
VolumeCu. Ft.	CASING CEMEN			No. FTDate
Dilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEETINCHES
Fresh waterfeetfeet	FEET_	INCHI	ES	FEETINCHES
Salt water feet feet	FEET_	INCHI	ES	FEETINCHES
Orillers' Names				4
demarks:	no Cond	hit as		7
on. 1-10-83 80-10 ths. 1	water Th	brough	71100	sing
On 1-12-83 blew down	to 30-10	5 ths wa	ter 7	through 7"
4000 ft deep at 7	time of	visit		
1-12-83		0	101	21
DATE		Damu	ef 7/. X	Geroman DISTRIPA/WR2/20240R

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

### INSPECTOR'S PLUGGING REPORT

Permit No.	-			Wel	l No			
COMPANY			ADDRESS			1.1.4.1.13		
FARM		DISTRICT.	COUNTY					
Filling Material Used.								
Liner Lo	cation	Amount	Packer	Location	2 7 2	4		
PLUGS USED A	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST		
				-				
						1 1 1 1 1 1 1		
Orillers' Names			2 2/1			. 47.		
and the second								
Remarks:								
	I homely and a	inited the st	as mall on this late					
DATE	I hereby certify I v	isited the abov	e well on this date.					

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



### INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Oil or Gas Well\_

CASING AND USED IN LEFT IN PACKERS Size Address Kind of Packer\_\_\_\_ Well No. Size of Depth set\_\_\_\_ Drilling commenced\_ 5 3/16\_\_\_ Drilling completed\_\_\_\_\_Total depth\_ Perf. top\_\_\_ Depth of shot Date shot Perf. bottom\_\_\_\_ Liners Used Initial open flow\_\_\_\_\_/10ths Water in\_\_\_\_Inch Perf. top\_\_\_\_ Perf. bottom\_\_ Open flow after tubing \_\_\_\_\_/10ths Merc. in \_\_\_\_ Inch Volume\_ \_Cu. Ft. CASING CEMENTED\_\_\_\_ SIZE \_\_\_No. FT.\_\_\_\_Date NAME OF SERVICE COMPANY Rock pressure\_\_\_\_ hrs. \_bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT\_\_\_\_\_FEET\_\_\_ INCHES Fresh water\_ feet feet FEET\_\_\_ \_INCHES\_\_ \_\_\_FEET INCHES Salt water\_ feet feet FEET\_ INCHES \_FEET\_ INCHES Drillers' Names\_ Remarks: Final sluspertus OK to Release

6-6-83

Samuel M. 84/2/2024ac

BATE

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

### INSPECTOR'S PLUGGING REPORT

Permit No					Wel	I No		
	ADDRESS							
FARM	DISTRICTCOUNTY							
Filling Material (	Used							
Liner	Loca	ation	Amount	Packer	Location			
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING				
CEMENT-THICK	CHESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST	
	-						-	
							4	
rillers' Names					The second secon			
lemarks:								
DATE	I	hereby certify I v	isited the abov	e well on this date.				
DAYE	I	hereby certify I v	isited the abov	re well on this date.				

04/12/2024 CTO



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

WALTER N. MILLER DIRECTOR

THEODORE M. STREIT ADMINISTRATOR

July 1, 1983

Petroleum Development Corp. P. O. Box 26 Bridgeport, W. Va. 26330

#### Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

PERMIT NUMBER	FARM AND WELL NUMBER	DISTRICT
RIT-5734 RIT-5754 RIT-5772 RIT-5848 RIT-5878	Westvaco/Griffin Production Co., #1815-2 B. Wright/Griffin Producing Co., #2916-1 R. McVay/Griffin Producing Co., #3174-2 R. McVay/Griffin Producing Co., #111218-2 Allegheny/Griffin Producing Co., #5613-2	Grant Grant Grant Grant Grant

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved....

Very truly yours,

Theodore M. Streit, Administrator Office of Oil & Gas-Dept. Mines

