



1)	Date: D	ecember	_, 13. 85	
2)	Operator's Well No.	Weekl	y #2	
3)	API Well No.	47 -0:	33-3283	
		State	County	Permit

#### STATE OF WEST VIRGINIA

DEPARTMENT	OF	ENERGY,	OIL	AND	GAS	DIVISION	

DIVIS	TMENT	OF ENER	RGY	<u>A</u>	PPLICATIO	N FOR A W	ELL WORK PE	ERMIT	0117.013		
4) WELL T	YPE: A	Oil	/ Ga	as X	Χ/						
,	В	(If "Gas",	Production	n X	X /	Undergrou	nd storage	1	Deep	/ Shal	low XX
5) LOCATI	ON· F	levation: _	13	56			: An	moore 1	Run		//
J) LOCAII	DIV. D	istrict:	Si	mpson	n 8	County:		on	Ouadrangle:	Cla	rksburg 7½12
6) WELL O	PERATOR	Petr	oleum 1	Deve	CODE:		O 7) DESIGN	NATED AG	ENT S	teven R	. Williams
Addre		P. O.					Addre		P. O.	A SECOND	
		Bridge	port, I	VV 2	26330				The state of the s	CONTRACTOR AND	V 26330
8) OIL & G			THE PERSON	0984			9) DRILLII	NG CONT			
	no mor E		hen Ca								
Addre			#2, Bo	x 232	2 <b>-</b> D		Addre				
Audit	.33		Lew,				Addit	C33			
10) PROPOS	ED WELL	WORK.	D-:11	VY	/ D-:11	4	( D-4-111		. 6.: 1	WN.	
io) PROPOS	ED WELL	WORK:					/ Redrill				
								nation			
		DOET FOR									
11) GEOLOG					000						
	nated depth			1,1			eet	10			
	roximate tra			1.		feet;			_feet.		7777
	roximate co			4	94	Is	coal being mined	d in the area	? Yes	/ 1	No_XX_/
15) CASING	AND TUE	BING PRO	GRAM								
CASING OR TUBING TYPE		SPEC	CIFICATIONS   Weight	3		FOOTAG	GE INTERVALS	11 0	CEMENT FILL-UP	1	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in w	rell	OR SACKS (Cubic feet)		
Conductor	11 3/	4 H-40	42#	X		30	_		_	Kinds	
Fresh water					13 /						
Coal										Silves	
Intermediate	8 5/8	J-55	20#	X		1175	1175	ne	eat c.t.s	11 /	4.1.1505
Production	41/2	J-55	10.5#	X		5000	5000		450 sks/	1100	head 10.00
Tubing							7000		· JO BIE	h Dansey	a Col
Linc. s									- 4	nu	10101
	2									Perforation	
	9 33 5									Тор	Bottom
					7			All Inch			
	"	-		vita net	The second second	. 1517					
					OF	EICE LICE	CONIL V				
						FICE USE					e Make Jirgw Jis Y
					DK	ILLING I	ERMII				
ermit number	47	-033-3	3283						D	ecembe	r 13 19 85
									D	ate	
his permit cov	ering the w	ell operato	or and well	locatio	n shown belo	ow is evidence	e of permission	granted to	drill in accorda	ince with the	pertinent legal re-
uirements subj	ect to the c	onditions of	contained h	erein a	nd on the rev	erse hereof	otification must	be given to	the District Oi	l and Gas In	spector, (Refer to ll notify the proper
strict oil and	ne construc	tion of roa	ds, location	ns and	pits for any p	ermitted wor	k. In addition,	the well op	erator or his co	ntractor sha	Il notify the proper
				dan per	mitted work	nas commen	iceu.)				
everse hereof.	ork is as d	escribed in	the Notice	and A	pplication, pl	lat, and recla	mation plan, sub	oject to any	modifications	and conditio	ns specified on the
ermit expires	Dec	cember	13	198	7						
crimit expires .	DO	ocinoc1	10,	100		unless w	ell work is comm	enced prior	to that date and	d prosecuted	with due diligence.
							<del></del>				
Bond:	Agent	: P	lat:	Çasi	ng Fee	WPC	P S&E	Oth	or		
	Ar	7 1	n/11	ml	TOUR	and W	277 00	11			
	1-1	) //		114	1070	039/1	TIM				TOTAL 1
						0	1 mo	1	hw	2	1711
OTE. P.		al.				40	un Allen	w/m	24//	argare	J. Lall
OIL. Keep (	me copy of	this permi	t posted at	the dr	illing location	1. / /	D: /.	D	1 5 0 1 1	/	

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

Eridgeport, WV 26330

#### OFFICE USE ONLY

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

. 21 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MARKET SORRE TO THE TOP OF THE STATE OF THE
10 C. S.	OFFICE USE ONLY
This part of Form WW-2(B) is to reco	ord the dates of certain occurrences and any
Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	TIMES OF THE THE THE TENT OF T
Completion of the drilling process	,,
Well Record received	the permission entity does well a petrologie no well because here beton a seven before all resimilation unconsens comes are conditions contained because and on the reverse flored majorities and age to the reverse flored by a distribution of the contained water. It extracts are permissed water the admission
Peclamation completed	autict off and switch region 2 kinder, define actual elemented work elementarion; ). The remaind work is at described in the worder with application, but and replacement plant set whereast
OTHER INSPECTIONS	ternal expires December 13, 1987 confess a divigil a china
Reason:	Long New York Land See You English
Reason:	EU ALLBacks MITTAM ELY

THE PAINT NAME OF THE PARTY.



WW-9

Pec'd. (WFSCD)

DIVISION OF OIL & GAS

Rec'd. (WFSCD)

Rest Hirginia

DATE December 8, 1985

WELL NO. Weekly No. 2

API NO. 47 - 033 - 3283

Bepartment of ENERGY DEC 1 0 1985 moieivich exd dau lid

### CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp.	DESIGNATED AGENT Steven Williams
Address P.O. Box 26, Bridgeport, WV 2633	O Address P.O. Box 26, Bridgeport, WV 26330
Telephone 842-6256	Telephone 842-6256
LANDOWNER Icie B. Weekly	SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by See	eding Contractor
This plan has been reviewed by Wes	(Agent)
and additions become a part of this plan:	SD. All corrections
$\overline{Q}$	(Pate) O/ 1
<u>Le</u>	meth & Tought
	(SCD Agent)
ACCESS ROAD	LOCATION
Structure Culvert with rip-rapped outlet (A)	Structure Diversion ditch (1)
20" diameter drai Spacing (according to 0&G manual) (at natural	ns) (1)
	Material earth
Page Ref. Manual 2.7	Page Ref. Manual 2.12
Structure Drainage ditch (B)	Strand
	Structure Rip-rap (2)
Spacing inside road cuts	Material stone
Page Ref. Manual 2.12	Page Ref. Manual 2.14
Structure Cross drains with rip-rapped (C)	
	Structure Sediment Barrier (3)
Spacing as noted on back section of this plan	Material Staked Hay Bales
Page Ref. Manual 2.1	Page Ref Marrial
All structures should be inspected many	-110
All structures should be inspected regularl commercial timber is to be cut and stacked and cut and removed from the site before dirt wor	y and repaired if necessary. All
cut and removed from the site before dirt wor	k begins.
Woods REVECETATI	CN Re-claimed Strip Mine
Treatment Area I	
Lime 3 Tons/acre *	* Lime
6.5	or correct to pH 6.5
(10-20-20 or equivalent)	Fertilizer 600 lbs/acre
Aslah	(10-20-20 or equivalent)
incit out i	Mulch Hay 2 Tons/acre
T 71	Seed Rentucky 31 35 lbs/acre
lbs/acre	Landino clover 5 lbs/acre
*Inoculate all legumes such as vetch, trefoil noculate with 3% recommended amount.	and clovers with the proper hastonic
** Time 20003	
** Lime according to pH test	FAPED EY David L. Jackson
The state of the s	ADDRESS P.O. Box 969
seedling for one growing space.	303
Alteen separate sheets as	Buckhannon, WV 26201
necessary for comments.	NE NO. 472-9369

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGIE Clarksburg 71'

LEGEND Well Site Access Road

State County

DEPARTMENT

ENERGY

Permi



the and
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA SUSAN M. SUTTON 223 Point Street Clarksburg, NY 26301 Clarksburg, NY 26301 STATE OF WEST VIRGINIA SUSTAIN SUSTAIN STATE OF WEST VIRGINIA STATE OF WEST VIRG

State of West Virginia

FORM WW-2A Obverse	1)	Date: Decemb	ber 10,	, 19 <sup>85</sup>
UDVerse		Operator's	,	_
	2)	Well No.	Weekly #2	
	3)	API Well No.	47 - 033	- 39 83

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS

					ION FOR	A WELL WORK PERMIT
4			R(S) OF RECORD TO IC I'V L. Watkins as	ie B. Weekly		COAL OPERATORAddress
		Address	115 Merrill Aven Rivesville, WV.		5 (ii)	COAL OWNER(S) WITH DECLARATION ON RECORD:
	(ii)	Name Address_	11 see has going	2320 09VI08		Name Mary L. Watkins as Committee for Address 115 Merrill Avenue Icie weekly Rivesville, WV. 26588
	(iii)	NameAddress		82721 0		NameAddress
		Address_	27207153 (141121		5 (iii)	COAL LESSEE WITH DECLARATION ON RECORD: Name Address
			<u></u>	ni ilea of fin	1 . 25 . 61	100 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TO THE PERSON(S) MAMED ABOVE: You should have received this Form and the following documents:

The Application for a Well Work Permit on Form WW-2(B) which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
 The plat (surveyor's map) showing the well location on Form WW-6, and
 The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosin and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, with respect to a well at the location described on attached Application and depicted on attached Form WM-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director of the Division of Oil and Gas.

6) EXTRACTION RIGHTS

Check and provide one of the following:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 22B-1-8(c)(1) through (4). (see reverse side for specifics.)

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form WW-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Motice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well	WELL OPERATOR Petroleum Development Corpo
Operator in my County and State by Steven & Williams	Its President Address P.O. Box 26,
this 10th day of becamber, 1985,	Address P.O. Box 26, Bridgeport, WV. 26330
My commission expires April 13, 1995.	Telephone 304/842-6256
Notary Public, Harrison County,	

250'



1)	Date: De	ecember	. 19 85	
2)	Operator's Well No	Week	ly #2	
3)	API Well No.	47		
		State	County	Permit

### STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4)	WELL TY	PE: A	Oil	/ G						1000
			If "Gas",		and the second		/ Undergrour	Ramanan	/ Deep	_/ Shallow/)
5)	LOCATIO		evation: _	CONTRACTOR OF THE PARTY OF THE	mpson	1	Watershed:	Harrison		Clarksham 73.1
6)	WELL OP		strict:	oleum 1	The same of the sa	CONTRACTOR OF THE PARTY OF	County: ODE: 38200	THE RESERVE AND THE PROPERTY OF	Quadrangle:	Clarksburg 7%
0)	Address		P. O. 1			<u> </u>	DE. SOLOG	7) DESIGNATED Address	P. O. Bo	THE RESIDENCE OF THE PROPERTY
	Address	STATE OF THE PARTY	Bridge		JV 2	6330		Address	Bridgepo	
8)	OIL & GA	S INSPEC		BE NOTII		161111	manual este sal	9) DRILLING CO	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Contraction of the Contraction o
	Name			#2, Bo		2-D		Name		
	Address			Lew,	THE RESIDENCE OF THE PERSON NAMED IN	26378		Address		
10)	PROPOSE	D WELL	WORK:	Drill_	XX	_/ Drill	deeper	Redrill	/ Stimulate	
				Plug of	f old	formation	n/ Peri	forate new formation_		
							in well (specify)_			
11)	GEOLOGI				S 2 2 5 10 4	000	enson			
	12) Estima				4	STATE OF THE PARTY		et 1700	-	
	<ul><li>13) Appro</li><li>14) Appro</li></ul>				49	94		alt, coal being mined in the	feet.	/ No XX
15)	CASING A							coar being inmed in the	arear res	/ No/
CA	SING OR BING TYPE			CIFICATIONS			FOOTAG	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Cond	luctor	77 3/	H-40	42#	Λ		30			Kinds
	water									
Coal		8 5/8	J-55	20#	X		1175	1175	neet e t e	Sizes
37833320	mediate	434	J-55	10.5#	X		5000	1175	neat c.t.s.	
	uction		0-77	TO 0 711	47%		3000	3000	470 SES	Depths set
Tubi										
Line										Perforations:
										Top Bottom
ecc	led in 1	less th	nan 15 ne foll	days flowing the A	ram "Vol Appli	the funtare catio	filing of try Statemen	he Applicatio	n if the surf tion" on a fa	the permit can be face owner(s) of acsimile of this
3) or	e of thi ell Work a surve propose I	s Appl Permi y plated well furth	lication For the confidence of	on, and on Woom WWom www. on my ate that	l tha 1-2(A -6, a surfat I	at I had (2) and (4) face 1 have	nave receive 2) an Appli 3) a Constr and as des no objecti	red copies of cation for a fuction and Re cribed therei	(L) a Notice Well Work Per clamation Pla n. nned work des	ers on the reverse of Application for mit on Form WW-2(B), an on Form WW-9, all scribed in these enaterials.
(Fo	execut	ion by	corpo	oration	n, pa	rtner	ship, etc.	) (For ex	ecution by na	atural persons)
IAMI By	S:							Mary L.	hatking, com (Signature)	nitteef Scie Freekle
[ts				I	Date_			<u></u>	(0)	
									(Signature)	Date

#### INSTRUCTIONS TO SURFACE CWNERS 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 22B, Article 1 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 Director of the Division of Oil and Gas in the West Virginia Department of Energy immediately.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT AT ALL.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION :

Director, Division of Oil and Gas West Virginia Department of Energy 1615 Washington Street, East Charleston, West Virginia 25311-2192 (304) - 348 - 3500

Who may file comments? If you wish to file comments, you must be an owner of record of (1) and 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 over 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 Director'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 Director's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Director 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 Director.

List of Water Testing Laboratories. The Director 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 Director's office or an Oil and Gas Inspector to obtain a copy of the list.

FORM WW-2(B) COAL OWNER'S COPY (Obverse) 7/85

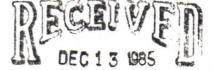


1)	Date: De	cember	, 19 85		
2)	Operator's Well No.	Weekl	v #2		
3)	API Well No.	47			
		State	County	Permit	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

#### APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A C	oil	/ Ga	s X	<u> </u>				
	B (1	f "Gas", 1		- 4	(	/ Underground		/_ Deep	_/ Shallow XX /)
5) LOCATIO	N: Ele	vation: _				Watershed: _	The same of the sa		
		strict:		npsor	OF STREET, STR	County:	Harrison		Clarksburg 73'
6) WELL OP				eve.	C(	DDE: 38200	7) DESIGNATE	DAGENTSte	ven R. Williams
Address	ALL STREET, ST	P. O. I		977 6	1000		Address	P. O. Bo	THE RESIDENCE OF THE PARTY OF T
	NIGHT TO THE PARTY OF THE PARTY	Bridge			(0330			Bridgepo	rt, WV 26330
8) OIL & GA		TOR TO	BE NOTIF	IED			9) DRILLING C		
Name			#2, Bo:		P_D				
Address			Lew, I		26378		Address		
10) PROPOSE	D WELL		Drill_		/ Drill	deeper	/ Pedrill	/ Stimulate	
io, i koi ose	D WELL	WORK.					rate new formation		
							are new youngeron		
II) GEOLOGI	ICAL TAR	GET FOR			Ben			No. 14	
12) Estima				50	000	feet			
13) Appro				45		feet: salt	1700	feet.	
14) Appro				45	)4		al being mined in the		/ NoXX
15) CASING	AND TUBI	NG PROC	GRAM						
CASING OR		SPEC	IFICATIONS			FOOTAGE I	INTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	11 3/	H-40	42#	X	Caro	30	and and	(Cubic reer)	Kinds
Fresh water									Killus
Coal									Sizes
Intermediate	8 5/8	J55	20#	X		1175	1175	neat c.t.s.	Sizes
Production	442	J-55	10.5#	X		5000	5000	450 sks	Depths set
Tubing									Deptits set
Liners									Pertorations
									Top Bottom
									Top Bonon
	1								
that a 17 must receip owner permit The undersign examined this properties the second s	any obj st be f pt of t The fol or coa t is to med coal oper roposed we no objection in Code an	ection filed whis Ap. lowing al less o be is crator ll location to the wind the gove	they rith the plicate waive see who seed work proper training regularity.	map exposed to lations	to male partment by the state of record in fifte downer dists which cobe done at the control of	owner(s), se or are not of Energy Department completed held a declar een (15) da WAIVER  rovers the area of his location, provi	required to gy within fit. by the coal aration under ays of the f	ssee are here make by Code fteen (15) da operator and or Code 22B-1-iling of the le well location has bee ator has complied with	22B-1-15,16,or ys after the by any coal 36 if the
							lts		

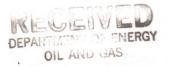


#### SITE REGISTRATION APPLICATION FORM DIVISION OF OUR GAS STATE OF WEST VIRGINIA/NPDES GENERAL PERMIT FOR CASS SITE REGISTRATION APPLICATION FORM DRILLING PIT WASTE DISCHARGE

1.	Company Name Petroleum Develop	ment Corporation		
2.	Mailing Address P.O. Box 26,	Bridgeport,	WV.	26330
	Telephone 304/842-6256	city	state	zip
5.	Latitude 39-17-30N	Longitude	80-15-00W	
6.	NPDES # WV0073343 7. Dept	t. Oil & Gas Pe	rmit NO. 4	7-033-32 83
8.	County Harrison 9.	. Nearest Town	Anmoor	e
10.	Nearest Stream Ann Moore Run	11. Tributar	y of Elk	Creek
12.	Will Discharge be Contracted	Out? yes xx	no	
13.	If Yes, Proposed Contra	actor PKC,	Inc.	THE ORDER OF THE PROPERTY OF T
	Address 44	Baltimore Street,	Westover, WV.	26505
	Telephone 3	04/292-1265		
14.	Proposed Disposal Method: [	JICL	and applica	tionxx
	Off Site Disposal	ReuseC	entralized	Treatment
	Thermal Evaporation Other	er		

Attach to this application a topographic map (a duplicate of the one submitted to the Office of Oil and Gas) showing the outline of the facility, location of wells, springs, rivers and other surface water bodies, and drinking water wells known to the applicant in the area of the lease that may be impacted by any land application

Nothing in the general permit shall be deemed in any way to create new, or enlarge existing, rights of riparian owners or others. Neither does anything in the general permit create new, or enlarge existing, obligations or duties of an operator pursuant to the requirements of W. Va. Code S22-4-1 et seq. The issuance of the general permit does not convey any property rights of any sort. Nor shall the issuance of the general permit give rise to any presumptions of law or findings of fact inuring to or for the benefit of persons other than the State of West Virginia.



WR-35

JAN 1 5 1986



# State of Mest Nirginia

DEPARTMENT OF ENERGY Gil und Gas Bivision

Date *-				_	
Operator's					
Well No	#2			_	
Farm ICIE WEEKLY					
API No. 47 -	033	_	3283		

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1356' Watershed	ANN MOOR	Quadrangle	CLARKSB	URG 71/31
District: SIMPSON County HARR	RISON	Quaurangre	CHRICIDE	72
The Park Sees Toronto "AVI The Deal of				
OMPANY PETROLEUM DEVELOPMENT CORPORATION				
ADDRESS PO BOX 26, BRIDGEPORT, WV. 26330	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT STEVEN R. WILLIAMS	Tubing	Drilling	in Well	Cu. ft.
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330	Size			
SURFACE OWNER MARY L. WATKINS AS COMMITTEE FOR	20-16 Cond.			
ADDRESS 115 MERRILL AVE, RIVESVILLE, WV 26588	13-10"	30'	11 00	
MINERAL RIGHTS OWNER SAME AS SURFACE OWNER	9 5/8			
ADDRESS	8 5/8	1184'	1184'	230 sks.
OIL AND GAS INSPECTOR FOR THIS WORKSTEPHEN	7			
CASEY ADDRESS RT 2, BOX 232-D JANE LEW, WV 26378	5 1/2			
PERMIT ISSUED 12/13/85	4 1/2	4724	4724	475 sks.
DRILLING COMMENCED 12/17/85	3			
DRILLING COMPLETED 12/23/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used	1920		-
GEOLOGICAL TARGET FORMATION BENSON		Dep	oth 5	0000 feet
Depth of completed well 4736 feet	Rotary x			
Water strata depth: Fresh25;54;500feet;				
Coal seam depths:				e area? no
OPEN FLOW DATA  Producing formation  BENSON	Pa	ay zone dej	oth 46	10-19 fee
Gas: Initial open flow not taken Mcf/d Final open flow 622 Mcf/d				
Time of open flow between ini				
static mok pressure 1850 psig(surfa				
Static rock pressure 1850 psig(surfa				
(If applicable due to multiple completion	P	ay zone de	ptn	fee
(If applicable due to multiple completion	P	_		
(If applicable due to multiple completion	Oil: I	nitial ope	n flow_	Bb1/

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

	PERFS	ACID	80/100 SAND	20/40 SAND	NITROGEN	SLF-BBL
BENSON	4610-19	500 GAL	15,000 lb.	50,000 lb.	80,000 scf	637

#### WELL LOG

			REMARKS
COLOR HADD OF COLL	TOP FEET	BOTTOM FEET	Including indication of all fresh
FORMATION COLOR HARD OR SOFT	101 11111	202201	and salt water, coal, oil and gas
KB - GL	0	10	3" stream fresh H2O @ 25'
sand, shale, RR	10	1466	1/4" stream fresh H2O @ 54'
Little Lime	1466	1482	1" stream H20 @ 500'
sand, shale	1482	1523	
Big Lime	1523	1600	
sand, shale	1600	1603	
Big Injun	1603	1683	AND
sand, shale	1683	2018	gas check @ 1733 no show
Gantz	2018	2033	
sand, shale	2033	2039	The state of the s
50 ft	2039	2087	
sand, shale	2087	2094	25%
30 ft	2094	2124	30
·	2124	2187	
sand, shale	2187	2196	
Gordon Stray	2196	2209	
sand, shale	2209	2249	
Gordon	2249	2267	The desired from the control of the
sand, shale	2267	2306	gas check @ 2267' 4/10 - 2" H20
3rd	2306	2358	800
sand, shale	2358	2382	
4th	2382	2419	
sand, shale	2419	2434	The state of the s
4th-A	2434	2546	gas check @ 2518' 4/10 - 2" H20
sand, shale	2546	2587	
5th	2587	2997	gas check @ 2675' 6/10 - 2" H20
sand, shale	2997	3174	
Upper Speechley	3174	3202	
sand, shale	3202	3330	gas check @ 3303' 4/10 - 2" H20
Speechley	3330	3370	gas check s
sand, shale	3370	3655	
Balltown	3655	3814	gas check @ 3706' 3/10 - 2" H20
sand, shale	3814	3880	San chaosi
Bradford	3880	4328	gas check @ 4017' 3/10 - 2" H20
sand, shale	4328	4436	800 0
Riley	4436	4594	gas check @ 4575' 2/10 - 2" H20
sand, shale	4594	4652	gas check @ 4669' 4/10 - 2" H20
Benson	4652	4736	Driller TD 2/10 - 2" H20
sand, shale	4032	4744	Logger TD 2/10 - 2" H20

(Attach separate sheets as necessary)

	PETROLEUM I	DEVELOPMENT	CORPORATION	
Well	perator			
By:	1/1.00			
Date:				

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 in all, encountered in the drilling of a well."

# INSPECTOR'S PERMIT SUMMARY FORM

THE TOTAL TON 1956	MAY 1 1986 OPE	RATOR Petro	Jour Don	Orn
ELEVATION 1356 DISTRICT Simpson				
		EPHONE		
QUADRANGLE Clarksburg		M		
COUNTYHarrison	WEL	L # Weekl	.y 2	
SURFACE OWNERWeel	klv. Icie COMMENT	'S	TELEPHON	E
TARGET FORMATION	Yin' Your Thinks			
DATE STARTED			10 minutes 1 minutes 2 min	
LOCATION 12-14-85	NOTIFIED	DRIL	LING COMMEN	CED 12.16
571	t Tan			12/2/
WATER DEPTHS 324,				
COAL DEPTHS 352-858,	,			
	A1099			
Ran_ 1165feet of	CASING	13.15.85		
Ranfeet of				
Ranfeet of				
Ranfeet of	"pipe	on	vith	_fill up
	PLUGGII	NG		
Type	From	То	Pipe	Removed
Field analysis				
Field analysis			21	
Field analysis Well Record received	phf		21	
Pit Discharge date:	phf		21	
rield analysis Well Record received	phf			
Field analysis Well Record received	phf		L. Casa,	

### API# 47 33 - 3283

### LIST ALL VISITS FOR THIS PERMIT

DATE	TIME	PURPOSE	COMMENTS
12.16-85		7 +	85/8
12-17		Insput	arous
		J 11	25/
12.18			8/8
12-19		4	
12.20		ι,	The state of the s
12-23		te	TO
4-29-86		11	reclamation
			. The second of
			> 2
			1757

Notes

# APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL

PRIC	E UNDE	R THE NATURA	IL GAS POLICY	Y ACT (NGP.	A)	
11.0 API well number:	1					
(If not assigned, leave blank, 14 digits,	.)		7 - 033 -	5685 -		
2.0 Type of determination being sought:  (Use the codes found on the front	i	*		· SA	Paran	Ph. :
of this form.	1		103	[V]	PICE IN	1
3.0 Depth of the deepest completion			Section o' NGPA	Careport	eods .	1
location: (Only needed if sections 103	1	•		43	JAN 1 5 199	00
or 107 in 2.0 above.)	i		_96	19		10
				DED	ISION OF DIE	GAC
4.0 Name, address and code number of	1				ARTMENT OF E	NERCO
applicant: (35 letters per line	! _1	Petroleum Deve	logment Corpo	pration	T	77.44
msximum. If code number not	I Na	ime				
available, leave blank,)	1 -	P.O. Box 26, 1	03 East Main	Street		Set
	Str	-CT				-
	i E	Bridgemort		WV	26330	
O Location of this west: [Complete (a)	CI	Υ		State	Zp Code	-
or (b).)	1				ZIP Code	
(a) For onshore wells	1	UNNAMED Id Name				
•	Fie	id Name				
(35 letters maximum for field	1 _/	HABI315UN		WV		
name.)		inty .		State		
(b) For OCS wells:	1			SISTE	-	
	1					
	Are	Name				
	i	•			Block Number	
	1 .	t	Date of Lease:			
	1	1 1	t t t			
(a) N	1	Mo.				
(c) Name and identification number	1	The second secon	Day Yr.	OCS Lease	Number	
of this well: (35 letters and digits		ICIE WE	FKIV 47			-
maximum)		VV V	LIICI # C			
idi If code 4 or 5 in 2.0 above, name	1					
of the reservoir: (35 letters	1	BENSUN				
maximum.)	!	10 DN JON				
(a) Name and code number of the	1					
purchaser: (35 letters and digits	1					
maximum. If cods number not	1	HOPE GAS	Tur		*	
aveilable, leave blank.)	Name		INC			
(b) Date of the contract:	1					
	W=	NDING				Buyer (
	, 2	NUING		1 1 1		
c) Estimated total annual production			Mo. Day	Yr.	•	
from the weil:						
		-		30	N:	
				PVII	Mon Cubic Feet	
i		1		(c) All Ot		
. !		(a) Base Price	(b) Tax	Prices [In	1 1	Total of
Contract price:				(+) or (-).	orcate	nd (c)
As of filling date. Complete to 3	S/MMBTU	PENDING		117 01 1-1.		
eomel piscal	STATING ! O	TENDING		.		
aximum lawful rate:				-		
s of filing dare. Complete to 3		C +.	1	-		_
I mai piaces	S/MMBTU	Section	104 + Tax	P		
son responsible for this application:		1		1		
epplication:	C+-	-/-/-				-
Agency Use Only	516	yen R. William	is	70-		
ceived by huris. Agency	Name	11/2/1		Pr	esident	
ecsively that Agency	1	11/1		Title		-
ESTIVED BY FERC	Agna we	1 1		3		
		13/86				
-121 (8-82)	Date Apo	Fation & Completed		(304)	842-6256	
(0-02)				Phone N.	1000	-

Phone Number

### STATE OF WEST YIRGINIA

840400 - 77

DEPARTMENT OF MINES, OIL AND GAS DIVISION

JAN 30 1986

### COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1/13 ,1986 38200	AGENCY USE OHLY
Applicant's Name: Petroleum Development Corporation	WELL DETERMINATION FILE NUMBER
Address: P.O. Box 26	8/1/1/
Bridgeport, WV 26330	860115 -1030 -033 - 3283
Gas Purchaser Contract No. PENDING	Use Above File Number on all Communications Relating to This W
Date of Contract (Month, day and year)	
First Purchaser: HOPE CAS INC 7 60/	Designated Agent: Steven R. Williams
Address: 445 W, MAIN  (Street or P.O. Box)	Address: P.O. Box 26
(Street or P.O. Box) CLARKSBURG, WU 26301	Bridgeport, WV 2633
(City) (State) (Zip Code)  FERC Seller Code 014902	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING BE ADDRESSED:	NG THIS APPLICATION SHALL
Name: Steven R. Williams	President
Signature: (Print)	(Title)
Address: P.O. Box 26	
(Street or P.O. Box) Bridgeport, WV	26330
(City) (State)	(Zip Code)
Telephone: (304 ) 842-3597 (Area Code) (Phone No	umber)
(Certificate of Proof of Service to Purcha	ser)
NGPA Catagory App	lied For
NGPA SECTION/SUBSECTION	-
102 New Natural Gas  102-2 2.5 Mile Test  102-3 1000 Foot Deeper Test  102-4 New Onshore Reservoir  103 New Onshore Production Well  103 New Onshore Production Well	108 Stripper Well Natural Gas  108- Stripper Well  108-1 Seasonally Affected  108-2 Enhanced Recovery  108-3 Temporary Pressure Bur
107 High Cost Natural Gas	AGENCY USE ONLY
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine 107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	
	QUALIFIED
DECENTED	

JAN 1 5 1986 L DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

### STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date	1/13 . 1986	,
Operator's Well No.	ICIE WEEKLY # 3	7
API Well No. 47 -	033 - 3283 Councy Permit	

# WELL CLASSIFICATION FORM NEW ONSHORE PRODUCTION WELL

MGPA Section 103

	DESIGNATED AGENT Petroleum Development Corpora
	ADDRESS 103 East Main Street
	Bridgeport, WV 26301
WELL OPERATOR Petroleum Develorment Cor	PLOCATION: Elevation/356
ADDRESS 103 East Main Street	
Bridgeport, WV 26301	Watershed ANN MOURE
CAS PURCHASER HUPE GAS INC	Dist. SIMPSON County HABBISON Quad. CLABIASI
ADDRESS 445 N MAIN	Contract No. PENDING
110016/10.01	Meter Chart Code
201111111111111111111111111111111111111	Date of Contract
* * * * * * * *	* * * * * * * *
Date surface drilling was begun: 12/17	185
Indicate the bottom hole pressure of the well .	and explain how this was calculated:
$P_{ws} = P_{ts}$ (e) 0.01875 GH	
Pws = Static Bottom   Hole Pressure=	2164 psia
P <sub>ts</sub> =Static Wellhead Pressure = Bottom Hole Temperature =	1850 psia
Bottom Hole Temperature =	99 OF
G= Specific Gravity of Gas = E= Well Depth to Center Perfs. =	161
E= Compressibility Factor at Arith	metic Mean Temperature & Pressure= , 733
T= Arithmetic Mean TemperatureFFIDA	VII 537
-	ving been first sworn according to law state that termination is sought was begun on or after February 19.
within a proration unit, in existence at the treeservoir from which gas is or will be produced in commercial quantities or on which surface draws capable of producing gas in commercial quantities or on which surface draws capable of producing gas in commercial quantities of my information. knowledge and belief	the surface drilling began, which was applicable to the d and which applied to any other well producing was cilling began on or after February 19, 1977, and which mititles. I state, further, that I have concluded, to set, that the well for which this determination is sought poor aware of any information, nor described in the
•	AT 11. C.
•	
STATE OF WEST VIRGINIA.	
COUNTY OF Haveson TO WIT:	
Street & Shill	ry Public in and for the state and county aforesaid.
13th 1 13th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e is signed to the writing above, bearing date
	cknowledged the same before me, in my county aforesaid.
Civen under my hand and official s	
My term of office expires on the	day of white . (19 9).
(NOTARIAL SEAL)	Deforer alien
OFFICIAL PROPERTY.	Socary Public
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA DEBORAH ALESSIO P. O. Box 252 Bridgeport, WV 26330 My Commission Expires August 6, 1992	

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

PRICE	UNDER TI	HE NATURAL	GAS POLICY A	CT (NGF	A)	
1.0 API well number:	.	. 47	-033 - 32	93 -		-
(If not assigned, leave blank, 14 digits.)	1.		000 00	0 /		-
2.0 Type of determination being sought:	i		147	10	RASES	
Use the codes found on the front	1	_	107	100	PUNE	VARA
of this form.)		S	ection o' NGPA	Callebra	Code	
3.0 Depth of the deepest completion			. ,	90	JAN 15	100
location: (Only needed if sections 103	1		4619	1 1000		
or 107 in 2.0 above.)	1			DEC	SAN 15	
4.0 Name, address and code number of	i			DEPA	RTMENTO	GAS GAS
applicant: (35 letters per line	1 Petr	oleum Develo	pment Corpora	tion	0,	ENERGY 149
maximum. If code number not	Name	Name				
available, leave blank,)	1 P.O.	Box 26, 103	East Main St	reet		Seller Co
1	Street			1000		
		gemort		WV	26220	
	City	gewre			26330	
5.0 Location of this well: [Complete la]	1			tate	Zp Coc	de
or (b).)	1 // //	MAMER				
(a) For onshore wells	574	NAMED				
(35 letters maximum for field				1 - 4 - 4		
Control of the Contro		ARBISUN		NV		
മണ്ട്.)	County		S	1216		-
(b) For OCS wells:	1					
	1					
	Area Nam	ne .			Block Num	ber
	1					
	1 .	Da	ite of Lease:			
	i	1 1	1 1 1 1 1			
	1	Ma.	Day Yr.	005145	se Number	
(c) Name and identification number	1			000 112	se reamber	
of this well: (35 letters and digits	! I	CIE WE	FKLY #7			
maximum.)			-110/ # -			
(d) If code 4 or 5 in 2.0 above, name	i			,		:
of the reservoir: (35 letters	i /	BENSON				
maximum)	1	72773074				
5.0 (a) Name and code number of the	-					
purchaser: (35 letters and digits	1					
maximum. If code number not	! 4/	PE LAS I	INC			
available, leave blank.)		IE UMS I	. NC			
(b) Date of the contract:	Name					Buyer Cod
13/ Date of the contract.	i D					
	PENI	11NG		1 1 1		
	1		Mo. Day	Yr.		
(c) Estimated total annual production	1					
from the well:	1	- ANTONIO POR PORTO DE LA CONTRACTOR DE		30	Million Cubic	Feet
	1					
	1			Ici Al	Other	
	!	(a) Ease Price	(b) Tax		Indicate	(d) Total of (a
				(+) or		(b) and (c)
O Contract price:	1	n		1	(-1-)	
(As of filling date. Complete to 3	S/MMBTU	PENDING				
occimal places)						
0 Maximum lawful rate:	9	_		-		
(As of filing date. Complete to 3	S/MMBTU	Section	104 + Tax	ak	- Transmission	
decimal places.)	1	200	11-1-100			
O Person responsible for this application:						-
to this application.	Stex	en R. Willian	me		Danis	
Agency Use Only	-	The state of the s	7		Presider	11
	Name	T 1.C.	1/		Title	
JAN 1 5 1988		-				
ate Received by FERC	signature,	2/11				
THE THE BY FERC	- 1/1	3/86		(3	04) 842-6	5256

Phone Number

FERC-121 (8-82)

# STATE OF WEST VIRGINIA 840 400 - 27

DEPARTMENT OF HINES, OIL AND GAS DIVISION

JAN 30 1986

### COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

ate: 1/13 ,1986 38200	AGENCY USE OHLY
pplicant's Name: Petroleum Development Corporation	WELL DETERMINATION FILE NUMBER
ddress:. P.O. Box 26  Bridgeport, WV 26330	860115 -1076-033-3283
as Purchaser Contract No. PENDING	Use Above File Number on all Communications Relating to This Wel
ate of Contract (Month, day and year)	
irst Purchaser: HUPE CAS INC P 637	Designated Agent: Steven R. Williams
ddress: 445 W. MAIN (Street or P.O. Box)	Address: P.O. Box 26  Bridgeport, WV 26330
(City) (State) (Zip Code) FERC Seller Code 014902	FERC Buyer Code
VAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERN	ING THIS APPLICATION SHALL
Name: Steven R. Williams (Print)	President (Title)
Address:  P.O. Box 26  (Street or P.O. Box)  Bridgeport, WV  (City) (State)  (City) (State)  Area Code) (Phone)  (Certificate of Proof of Service to Purch)	Number) aser)
NGPA Catagory Ap	piled FOF
102 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir 103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas  108- Stripper Well  108-1 Seasonally Affected  108-2 Enhanced Recovery  108-3 Temporary Pressure Buil
107 High Cost Natural Gas  107-0 Deep (more than 15,000 feet)  107-1 Geopressured Brine  107-2 Coal Seams  107-3 Devonian Shale  107-5 Production enhancement  107-6 New Tight Formation  107-7 Recompletion Tight Formation  DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	AGENCY USE ONLY  OF CHARLES ONLY  OUGLIFIED

ETATION OF RESENT

FO. IGIE WEEKLY #Z

API NO. <u>47 - 033 - 3283</u> State County 2

## WELL CLASSIFICATION FORM

HER-COST GAS - NEW TIGHT FOR AFTICK

:	NEY	SECTION 107
Mai comes	Petroleum Development Corp.	
		Designated Agent Petroleum Development
Address	103 East Main St., P.O. Box 26	Address 103 East Main St., P.O. Box 26
-	Bridgeport, WV 26330	Bridgeport, WV 26330
Gas Purchase	- HOPE GAS INC	location: Elevation /356
Address	445 W MAIN	Matersiad ANN MOORE Quad. CLARKS
	CLARMSBURG, WV 26301	District SIMPSON CETTY HARRISON
		Contract No. PENDING
		Mater Chart Code
		Date of Contract
Indicate the	e drilling began $\frac{12/17/83}{83}$ bottom hole pressure of well and ending to $\frac{.01875 \text{ GH}}{27}$ $P_{ws} = P_{ts(e)}$	explain how this was calculated:
T	c Bottom Role Pressure = 2104	·
		psia . O <sub>F</sub>
G = Speci:	fic Gravity of Gas = .6/	.•
E = Compre T = Arithm	Depth to Center Perfs = 4415 essibility Factor at Arithmetic Mean	Temperature & Pressure = 733
T - WITTH	detic Mean Temperature =	
have no large		been first seem economic to lest, statuts determination is sought was begin on from a designated tight formation and I bed in the application which is incress high-post natural gas well.
**		LM.
STATE OF WES	ST VIRGINIA	
COM CE	RARRISON , 104TT:	
1, 0880748	E ALESSIO , a NORMAN F	rublic in and for the state and county  where is signed to the enject
ಟರ್.ಕ, 148 ಕ	ಕರಿನಾರಾಗಿಕಲ್ಲಿಕೆ ಬಿಕ್ಕರ್ನಾಶಿಸಿದ್ದಾರ, ನಿನ	
	Given unit in her this 10th is	
	The operational ordinas: ALGUST	6, 1992 (
	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA DEBORAH ALESSIO P. O. Box 252 Bridgeport. WV 26330 My Commission Expires August 6, 1992	Deboran alreno

