

IV-35 (Rev 8-81) AUG 1 0 1984

State of West Birginia

Separtment of Mines

OIL & GAS DIVISION

Gil and Ges Zivision

	8	/8/8/	• •			,
Date		and the second second				
Opera	ator	S		•		
Well	No.	Or	<u>ie (1</u>			
Farm	Park	ersbu	rg N	atio	nal	Bank
API	No. 4	7 -	105		096	L

DEPT. OF MINES WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL T	YPE:	Oil / (If Gas	Gas <u>x</u> / 1	Liquid Injec on X / Under	tion grou	/ Wastu nd Storage	Disposa / Deq	Sha	llov_	_/)
IOCATI	ON:	Elevation	2 1210	Watershed	Ţ	Wilson For	k	5		
	•		CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	County				<b>G</b> irta	75'	
		•						•		
			3	4.2						
			velopment Co						Cenen	
_	CANADA AND THE PARTY OF	and the second s	Bridgeport,		•	Casing	Used in	Left	fill	- 1
		CONTRACTOR OF THE PARTY OF THE	me as above		20	Tubing	Drilling	in Well	Cu.	ft.
ADDRES	S	same	e as above		•	Size	•			
SURFAC	E OM	NER West	vaco Corpor	ation	<b>.</b>	20-16 Cond.				
ADDRES	S Pa	arkersburg,	, WV 26101		<b>D</b>	11 3/4" 12#XXX	30'	30°		
MINERA	L RI	GEIS OWNER	Parkersbu	re National	Bank					
ADDRES	S Pa	rkersburg,	w 26201		<b>3</b>	8 5/8	1907'	1907°	550 sl	ks
OIL AN	d Ca	S INSPECTO	R FOR THIS	WORK Richard	100	7				
J. Mo	rris	ADDRES	S <u>Grantsvill</u>	e, W	<b>30</b>	5 1/2				
PERMU	. IŚS	<u> </u>	4/12/82	,	70)	4 1/2	5503	5503	490 sl	ks
DRILLI	NG O	OMMENCED	05/02/82	·	•	3				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
		***************************************	05/09/82		<u>.</u>					
		43000	KEING OF DRY		≤ep	2				
			ON FROM DRI			Liners				
REWORK ON	CONG.	VEFBAL F	TERMISSION C	BLAINED		used				
Consultation and Consultation	ICAL	TARGET FO	RMATION	Marcellus Sh	ale	The second secon	Dep	th 5600		fæt
		of cample				Rotary ×				
	40	•	4300	<u>f</u> e		Salt	fæt		~	
									e area?	no
									•	4
OPEN I			_				_	200/5	100	
•		_	Common production and in the later of the la	onian Shale	ATTION OF THE PERSON NAMED IN					
(	Ges:	Initial o	open flow_	Met.	/đ	Oil: Ini	tial open	flow	2	pr/q
		Final ope	n flow	0 169, 3 Mcf.	/d	Fir	al open f	low		bl/d
		- Tim	e of open f	Low between:	init	ial and fi	nal tests	48 h	ours	
6	Stati	ic rock pro	essure 50	psig(su	rfac	e neasure	ment) afte	<u> 48 ho</u>	urs shu	rt in
	Uf c	pplicable	due to mul	tiple comple	tion		-			
	Secon	العلاقات الم	ng formation			Pay	zone dep	rth		feet
				<u>k</u>						
		Final op	en flow	Mcf	/đ	Oil: Fi	nal open f	low	I	Bbl/d
				low between						
	Stat			psig(sur						rt in
		4	AND RESIDENCE AND ADDRESS OF THE PARTY OF TH							, .

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

Devonian Shale Nitrogen

950 gal. acid 1,200,000 CF

95 perfs

(3894' - 5100')

Huron -> Phinestreet)

Rhinestred - 4592-5100

Java 3938-4292

Orgola 4292-4592

WELL LOG

ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
KB - GL	0	10	
sand, shale, red rock	10	1240	攴" stream H2O @ 355'
maxton	1240	1285	
shale	1285	1320	. ·
big lime	1320	1368	
big injun	1368	1436	
squaw \	1436	1492	•
sand, shale	1492	1892	
berea	1892	1910-	
sand, shale	1910	1974	
gantz	1974	2016	·
sand, shale	2016	2246	
gordon stray/ gordon	2246	2299	
sand, shale	2299	2780	
huron	2780	3938	<del>-</del> exist
java	3938	4292	
angola	4292	4592	
rhinestreet	4592	5288	·
sonyea	5288	5369	
genesse	5369	5438	
marcellus	5438	5542	
onondaga	5542	5546 TD	gas @ TD - 16/10 thru 2" = H2O
	·		
	A A		
			MR.
			· · · · · · · · · · · · · · · · · · ·

(Attach separate sheets as necessary)

Petrol	Leum De	velopme	nt Corp	oration	, Bridg	eport,	WV	26330
We:	Ll Oper	ator	0		7			<del>Maritikalikalika (Karat</del> a)
By:/	M	(-1	SW	nox				
1) <del>-</del>	0/0	101						

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 that, encountered in the drilling of a well."

FORM IV-2 (12 - 81)



	State	County	Permit	
API Well No.	47	105	0961	
Operator's Well No	ĵ.	#1		
Date: Apri	11 8t1	n , 19	82	

Permit

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

## OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE:	Oil/ GasX/			
	(If "Gas", Production/	Undergrou	nd storage	_/ Deep/ Shallow/)
LOCATION:	Elevation: 1210'	Watershed	: Wilson Fork	
	District: Clay	County:_	Wirt	Quadrangle: Girta 7½'
WELL OPERA	TOR PETROLEUM DEVELOPMENT CO	DRPORATIO	N DESIGNATED AC	GENT JOHN R. MITCHELL
Address	PC Box 26, 103 East Main St	- -	Address PO	Box 26, 103 East Main St.
	Bridgeport, WV 26330		Br	idgeport, WV 26330
OIL & GAS ROYALTY OW	VNER The Parkersburg Nationa	al Bank	COAL OPERATO	R
Address	Parkersburg, WV 26201			
·				
Acreage	557.5		COAL OWNERS	) WITH DECLARATION ON RECORD:
•	NER Westvaco Corporation		Name same a	
Address	c/o WV Woodlands, Mgr.		Address	184 82 (4 184 18 (8) P 189 180
Audiess	Parkersburg, WV 26101		***************************************	
Å om un on a	501.5		»I	APR 1 2 1982
_			Name	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
	(IF MADE) TO:		Address	AAA OEE MITHIELI OL MITHES
Address_		***************************************	COAL LESSEE W	VITH DECLARATION ON RECORD:
OII & CAS IN	NSPECTOR TO BE NOTIFIED			
	chard J. Morris			
	PO Box 372		Address	
Addios	Grantsville, WV 26147	<del></del>	<del>-</del>	
		-		
	ned well operator is entitled to operate for o			
other contract_	/ dated <u>March 2nd</u> , 19	81, to	the undersigned well	
IF said deed,	lease, or other contract has been recorde	ed:)		National Bank
Recorded on <u>V</u>	March 24th , 1981 , in the office	of the Clerk	of the County Commi	ission of <u>Wirt</u> County, West
Va., in	Book 160 at page 3	361 <u>.</u> A	permit is requested	as follows:
PROPOSED '	WORK: Drill X / Drill deeper	/ Redri	ill/ Fractur	e or stimulate/
•				<u> 235</u> yik 20ar es Ozos zaroze bestude
	Other physical change in well (s	specify)		AND A TORON AND AND THE STORY ASSESSED.
	* * * * * * * * * * * * * * * * * * *	· F	e i la Mara e la grippia de gripo de grip	HI S 1 ACCESSAV AV 1885 DO 2 (1082A) 1995 — TO TO TO TO THE SECTION A
		·		
The above nar	med coal operator, coal owner(s), and coal i	essee are her	eby notified that any	objection they wish to make or are required to
				s after the receipt of this Application by the
Department.			·	<u> </u>
Copies of this	Permit Application and the enclosed plat a	nd reclamatio	on plan have been mai	iled by registered mail or delivered by hand to

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-SION

1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

PETROLEUM DEVELOPMENT CORPORATION

Area Manager of Operations

## PROPOSED WORK ORDER

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

DRILLING C	ONTRAC	TOR (IF	KNOW	N) _						
				Ad	ldress					
									yuse-	
GEOLOGICA				***************************************						
			14.9					y X / Cal	ole tools	/
Approx	imate wat	er strata	depths:	Fres	h, 19	90fee	t; salt,	feet.		
Approx	imate coa	seam d	epths: _	N/A		Is coa	l being mined	in the area? Yes	/ No	/
CASING ANI	D TUBING	G PROG	RAM							
CASING OR TUBING TYPE	SPE Size	CIFICATI Grade	ONS Weight per ft	New	Used		INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
Conductor	11 3/4		-		х	30 '	301	circulate	Kinds	
Fresh Water		ing the second s	4 T; 444.44							
Coal									Sizes	
intermediate	8 5/8	J <b>-</b> 55	23#	x		1500	1500'	circulate		
Production	4 1/2	K <b>-</b> 55	10.5#	x		5600°	56001	2500	Depths set	
Tubing										
Liners									Perforations:	***************************************
									Тор	Bottom
, :										
prese "Rec preve Code A: be pa  THIS PERMIT M ALL PROVISIO ARTICLE 4 OF	cribed by clamation iously paid a \$22-4-8a separate Fart of the value	Regulation Plan", as from the second from the second for which was a second for which we have a second from the second for which we have a second for which we have a second from the second from	on 12, or pplicable ame well, e owner shall not by which a period of the company	t in litto the to the formation of an of a	ieu the e recla ee request water uired fis soug	ereof the other mation required by Code or well or dwe for fracturing of the and is noted.	er security allowed by Code \$ 252-4-12a, and allow within 2000 ar stimulating a las such on the	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the confect of the propose well where fracturing Form IV-2 filed in confect of the propose well where fracturing from IV-2 filed in confect of the IV-2 filed in c	2. (iii) Form IV- ion 23, (iv) unle onsent required i d well.	9, ss by
APPROVED FO	K DITT	JOT CO								
DA CARACTER AND	The state of the s	manuscon communication of the state of the s			STATE OF THE STATE	nnenantivat esistetetetetetetetetetetetetetetetetete			,	
) < m < 0 < 0 > 0 0 & 0 & 0	0.20000000	,						•••••••••	• • • • • • • • • • • • • • • • • • • •	<b>3 4 6 7 8</b> 9 5 9 5 9 9 9 0 2 2 2 2 2
								al owner or coal lessee fifteen (15) days of r		d a
						WAI	VER			
The undersign	ned has no	objection	n to the	work	propos	sed to be done	e/ of the well location at this location ning regulation	the coal under this ven, the well location han, provided, the well s.	well location has as been added to operator has con	examined this the mine map. nplied with all
							Section 1997 Control of the Section Section 1997	Abs		
Date:			, 19				By <u> </u>		W.	

State of West Virginia DEPARTMENT OF ENERGY

		~ ~		~ *	
PI #	47-10	5-0	0	961	L

Division of Oil and Gas

Reviced	7716	
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NOV 1 5 90

Well Operator's Report of Well Work Recorded\_\_\_\_\_

Farm name: WESTVACO

Operator Well No.: 1

LOCATION: Elevation: 1210.00 Quadrangle: GIRTA

District: BURNING SPRINGS County: WIRT Latitude: 11310 Feet South of 39 Deg. 7 Min. 30 Sec.

Longitude 9850 Feet West of 81 Deg. 17 Min. 30 Sec.

| Casing | Used in | Left | Cement

Company: JONES, GARY P. & SHIRLEY

ROUTE 1, BOX 216-A

WALKER, WV 26180-0000

WALKER, WV 26180-0000	&   Tubing	Drilling	in Well	Fill Up   Cu. Ft.
Agent: GARY P. JONES	   Size			1.~~ 6:1-
Inspector: DEO MACE Permit Issued: 04/15/82 Well work Commenced: 10-22-82	95/8		380	175 Sks to Surface
Well work Completed: $\sqrt{-28-83}$ Verbal Plugging Permission granted on:				
Rotary X Cable Rig Total Depth (feet) 4780 Fresh water depths (ft) 375	7		15:50	300 SKS
Salt water depths (ft) 1545				
Is coal being mined in area (Y/N)? N Coal Depths (ft):	45		4770	250 SKS
OPEN BIOM DAMA				TOP abit

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3200-7 Gas: Initial open flow O MCF/d Oil: Initial open flow O Bbl/d Final open flow MCF/d Final open flow O Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure \_\_\_\_\_psig (surface pressure) after

Second producing formation None Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow

Time of open flow between initial and final tests Bbl/d \_\_Hours

Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED

INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

no other information is

available

Juni Greene

_							
For:	JONES,	ΛGARY	Р.	Sکیکر	${\tt HIR}$	LEY	J

Perforated from 4000 - 4770 30 Incles. Stimulated with 250gd of 1570 HCl, 150,000 Scf. N2 - 95,000 Scf Co? Break down at 2900 PSI.

Est. gas production after frac at 15 met Per day.

Shut In Pressure 950 PSI.

SET

2160 Bs616 -3960 5 4160 A 4460 Rh