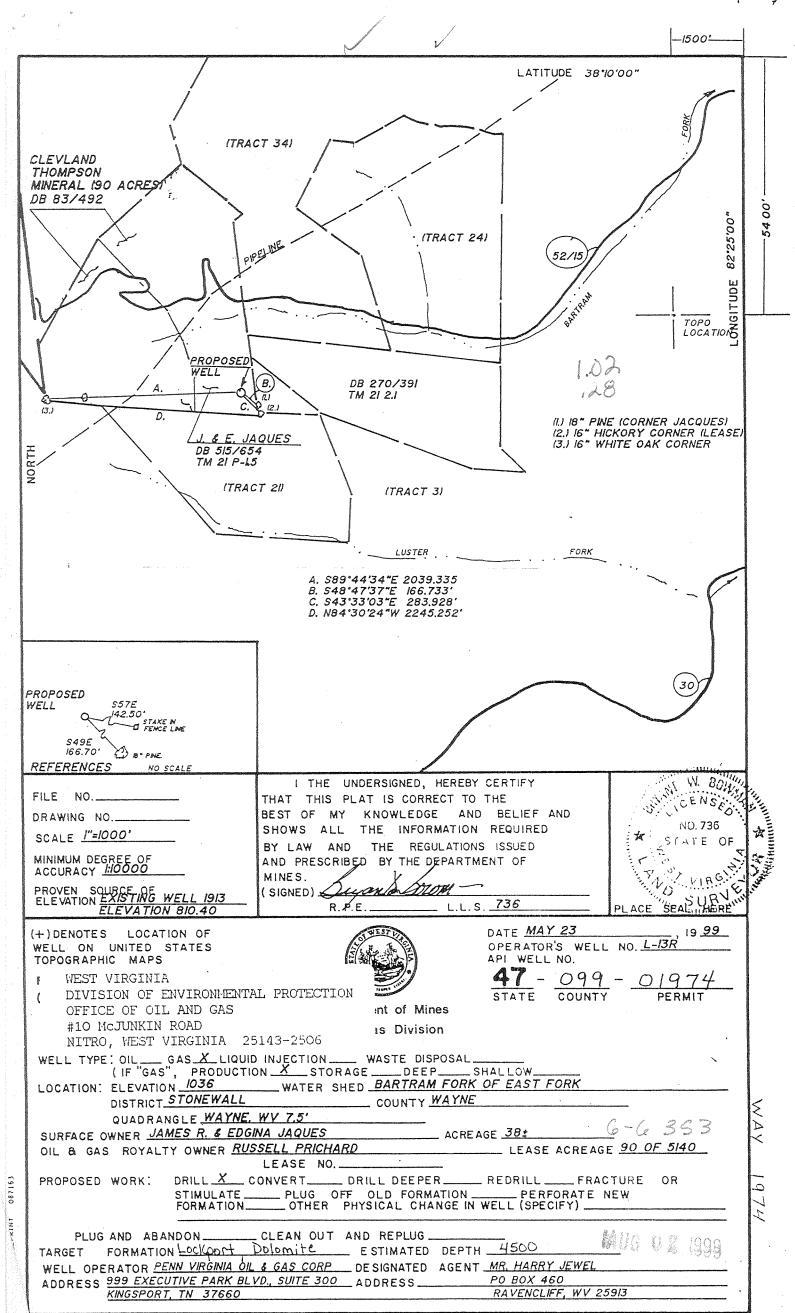


DEEPWELL

Charleston, WV



(201)

## State of West Virginia Division of Environmental Protection Section of Oil and Gas

DATE: 11-13-00 API #: 47-99-01974W

Well	Operator's	Report	of Well	Work

Farm name: Jacques, James R & Edgina	Operator Well	l No.:	L-13R				
LOCATION: Elevation: 1036'	Quadrangle:	Wayne, WV	7.5'				
District: Stonewall	Count	v: Wav	ne				
Latitude: _5400Feet South of _38							
Longitude 1500 Feet West of 82							
Edigitate 1300 rect West of 62	Dcg <u></u> _		<u>o</u> 5cc.				
Company:		\$	, •	,			
Penn Virginia Oil & Gas Corporation	Casing &		Left in well	Cement fill			
	Tubing	drilling		up Cu. Ft.			
Address: P.O. Box 387							
Duffield, VA 24244							
Agent: Harry Jewell	·			·			
Inspector: Dave Belcher			·				
Date Permit Issued: 8/9/2000							
Date Well Work Commenced:10/23/00			•••				
Date Well Work Completed: 11/7/00	KICO	molit	-UN				
Verbal Plugging:	1000	per					
Date Permission granted on:							
Rotary X Cable Rig			and the second second second	4.5-4.4			
Total Depth (feet):				760			
Fresh Water Depth (ft.):			Office of Ci Permit	& Gas			
Salt Water Depth (ft.):			CHILL	M			
Is coal being mined in area (N/Y)?		,	APRIE	2001			
Coal Depths (ft.):			Ž.	l			
OPEN FLOW DATA	i		WV Divisio Environmental P	h or			
			A STATE OF THE PARTY OF THE PAR	TULECTION			
Producing formation Lower Huron & Bere	a Pay zone d	epth (ft)					
Gas: Initial open flowMCF/d Oil							
Final open flow MCF/d Final open flow Bbl/d							
Time of open flow between initial and							
Static rock Pressure 450 psig (surface pressure) after 60 Hours							
battle rectain the point (surface p	rossaro, artor	11041	3				
Second producing formation	Pay zor	ne denth (ft)					
Second producing formation Pay zone depth (ft)							
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d							
Final open flow MCF/d Final open flow Bbl/d							
Time of open flow between initial and final tests Hours							
Static rock Pressurepsig (surface	e pressure) aft	terHo	ırs				
NOTE, ON DACK OF THE PODA BUT OF THE		1) TATEMATE (* )	````				
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.							
INCLUDING COAL ENCOUNTERED BY THE WELLBOKE.							
Signed: Waddell							

FORM WR-35R (REVERSE)

PERMIT #: 47-099-01974W WELL #: L-13R

## DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Set CIBP at 4140'. Spotted 50 of latex cement on top of CIBP. Perforated with 4 SPF at 2850'-2851'. Squeezed 4 ½" casing with 290 sx cement. TOC at 1846'.

Stage 1 – Lower Huron – Perforated from 2990' to 3178' with 47 holes. Breakdown with 500 gallons 7.5% HCL acid and N2. Treated with 303000 SCF N2. ISIP: 1080 psi. ATP: 1387 psi. ATR: 27200 SCF/min.

Stage 2 – Berea – Perforated from 2320' to 2330' with 20 holes and 2346' to 2351' with 10 holes. Breakdown with 250 gallons 7.5% HCL acid and N2. Treated with 301000 SCF N2. ISIP: 2810 psi. ATP: 3083 psi. ATR: 24900 SCF/min.

RECEIVED Office of Oil & Gas Permitting

JUN 09 2000

WV Division of

## State of West Virginia Division of Environmental Protection

DATE: 06/05/00 API#: 47-99-01974

Section of Oil and Gas

Rouis .

Well Operator's Report of Well Work Environmental Protection Farm name: Jaques, James R. & Edgina Operator Well No.: L-13R LOCATION: Elevation: 1036' Quadrangle: Wayne District: Stonewall \_\_ County: Wayne Latitude: 5400 Feet South of 38 Deg. <u>10</u> Min. Sec. Longitude 1500 Feet West of 82 Deg. 25 Min. Sec. Company: Penn Virginia Oil & Gas Corporation Casing & Used in Left in well Cement fill Tubing drilling up Cu. Ft. Address: P.O. Box 387 20" 19' 19' 0 Duffield, VA 24244 13 3/8" 302' 302' 319 Agent: Harry Jewell 9 5/8" 1553' 1553' 655 Inspector: Dave Belcher 4 1/2" 4316' 4316' 493 Date Permit Issued: 07/29/99 Date Well Work Commenced: 11/17/99 Date Well Work Completed: 12/13/99 Verbal Plugging: Date Permission granted on: Rotary X Cable Rig Total Depth (feet): 4343' Fresh Water Depth (ft.): Damp @ 25', 1 1/2" @ 1000', 3" @ 1350' Salt Water Depth (ft.): Is coal being mined in area (N/Y)? N Coal Depths (ft.): N/A OPEN FLOW DATA Producing formation Lockport Dolomite Pay zone depth (ft) 4151'-4160' Gas: Initial open flow Odor MCF/d Oil: Initial open flow Bbl/d Final open flow Odor MCF/d Final open flow Bbl/d Time of open flow between initial and final tests 48 Hours Static rock Pressure 700 psig (surface pressure) after 48 Hours Second producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow \_\_\_\_\_ Bbl/d Time of open flow between initial and final tests 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.

Signed:

MUN 20 200

PERMIT #: 47-99-01974 WELL #: L-13R

## DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Stage 1

Lockport

Perforated from 4151' to 4160' with 37 holes. Breakdown 500

gallons 15% HCL acid and water. Treated with 1000 gallons 15%

HCL acid.

ATR: 3.5 BMP

ATP: 3300 psi

ISIP: 2500 psi

<u>FORMATIONS</u>	TOP	BOTTOM	REMARKS
Breathitt	0	857	
Salt Sand	857	1390	
Pennington	1390	1450	
Little Lime	1450	1480	
Big Lime	1480	1683	
Big Injun	1683	1785	
Borden	1785	2286	
Berea	2286	2396	
Devonian Shale	2396	3444	
Corniterous Lime	3444	4188	
Big Six	4188	4230	
Rose Hill	4230	TD	