

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

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: 16C-117 LOCATION: Elevation: 2,400.00 Quadrangle: PILOT KNOB OCEANA County: WYOMING 14300 Feet South of 37 Deg. 47Min. 30 Sec. 3250 Feet West of 81 Deg. 32 Min. 30 Sec. District: OCEANA Latitude: Longitude

Company: PENN VIRGINIA OIL AND GAS -				
	Casing	Used in	l Left	Cement
KINGSPORT, TN 37660-0000	&			Fill Up
	Tubing	Drilling	in Well	Cu. Ft.
Agent: DANA BLACKSHIRE				
Harry Jewell	Size			[
Inspector: OFIE HELMICK	13 3/8"	43 '	43'	0
Permit Issued: 09/10/97	1	73	1 43	l <sup>U</sup>
Well work Commenced: 10/07/97 Well work Completed: 02/04/98				- <b></b>
Verbal Plugging			1 1	
Permission granted on:	9 5/8"	176'	176'	83
Rotary X Cable Rig	1			
Total Depth (feet) 2150'				
Fresh water depths (ft)	412"	2082'	2082'	706
Damp at 1075'			I	1
Salt water depths (ft)	i		i	
* *************************************	<u>:</u>			
Is coal being mined in area (Y/N)? N			l	l i
Coal Depths (ft):			1	į

#### OPEN FLOW DATA

Poca 6, L Fire Creek, Fire Creek, Producing formation Beckley & U Beckley coals Pay zone depth (ft)

Gas: Initial open flow 0 MCF/d Oil: Initial open flow Bbl/d

Final open flow show MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 360 psig (surface pressure) after N/A Hours \_\_\_\_\_Bbl/d Second producing formation Pay zone depth (ft)\_\_ Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure \_\_\_\_\_psig (surface pressure) after \_

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.

Ö	Prop. 13.				
JUN	15	1998			
Environr	กระกับ ไม่สารณ	Ost 13 Destruction			

For:	PENN	VIRGINIA	OIL	AND	GAS	CORPORATION

FORM WR-35R (REVERSE)

PERMIT #: 47-109-01667-C WELL#: 16C-117

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

Perforated the Fire Creek coal at 1879'- 1879.5' with 2 holes, the Lower Fire Creek coal at 1904.5' - 1905' with 2 holes and the Poca 6 coal at 1947' - 1947.5' with 2 holes. Breakdown with 500 gallons 15% HCL acid, 500 gallons 7.5% HCL acid and water. Treated with 209 barrels water, 6130 lbs 12/20 sand and Stage 1

353,000 SCF N2.

ATR: 20 BPM

ATP: 2850 psi

ISIP: 2310 psi

Perforated the Upper Beckley coal at 1754' and 1755' with 2 holes and the Beckley coal at 1841.5' – 1844.5' with 4 holes. Breakdown with 750 gallons of 7.5 % HCL acid and water. Treated with 298 barrels water, 8,350 lbs 12/20 sand and 420,000 SCF of N2. Stage 2

ATR: 20 BPM

ATP: 3220 psi

ISIP: 2300 psi

<u>FORMATIONS</u>	TOP	BOTTOM	<u>REMARKS</u>	
Sand & Shale Coal Sand Sand & Shale Coal	0 302 307 379 538	302 307 379 538 542		
Sand & Shale Coal Sand & Shale Upper Beckley Coal	542 658 662 1754	658 662 1754 1755		A E G E 1 V C D Office of OB & Gas Permitting
Sand & Shale Beckley Coal Sand & Shale Fire Creek Coal	1755 1841 1846 1878	1841 1846 1878 1880		JUN 15 1998 WV Division of
Sand & Shale Lower Fire Creek Coal Sand & Shale Poca 6 Coal Sand & Shale	1880 1904 1905 1946 1948	1904 1905 1946 1948 2132	Gas check - No shows reported	Environmental Protection

To the state of	~~5					CA 11120	
	DIVIS	SION OF E	<u>STA</u> NVIRONMEN	TE OF WEST	VIRGINIA CTION, OFFI	CE OF OIL	AND GAS
	<del></del>		WELL W	ORK PERMIT	APPLICATI	ON	
1)	Well Ope	erator: PE	NN VIRGI	NIA OIL &	GAS CORPOR	ATION 373	55 6 547
2)	Operator	's Well I	Number:	160-117			Elevation: 2400
4)	Well typ	pe: (a)	oil/	or Ga	<u>x</u> /	Joseph Sund	09/10/1997- 09/10/1999
208		(b)	If Gas:	Production Deep	n <u>X</u> / Underg	round Stora	age/ low/
24	Proposed	l Target 1	Formation	(s): Little	Raleigh, U.	Beckley, Bec	kley, Poca 6, 5, &
	Proposed	i Total De	epth: 2	150	feet	\$4. °	Coals
	Approxim	nate fresl	n water s	trata dep	ths: 100		1. July 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
<b>u</b> ,	Approxim	ate salt	water de	pths: N/A	1	Carl Marie	المان ال المان المان ا
9)	Approxim	ate coal	seam dep	ths: 270, 5	500, 690, 810	, 820, to be	tracted: 1600, 1710
10)	Does lar	d contair	n coal se	ams tribu	ary to act	,	1965 2020 Yes <u>X</u> / No/
11)	Proposed	i Well Wo	ck: Drill	& complete (	CBM Well in co	oals listed a	bove
12)							-
			CASIN	G AND TUB	ING PROGRAM		
TYPE	<u> </u>	S	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condi	ictor						3905018-1/3
	n Water	9 5/8	L.S.	26	150	<b>(150 V</b>	50
Coal		7 37 0			150		38081811.2.2
	mediate						
		4 1/2	M-65	9.5	2150	(2150)	225
	ction	7 1/2	11 05	7.3	2190		38081811.1
Tubir							
Liner				1			
	<u>ZRS</u> : Kin Siz	e <del></del>	<del></del>				
	Dep	ths set				~	
1010			_		nd Gas Use		
			_			lamation Fu	ind     WPCP
, <del></del> ,	D1-4 1		1 <u> </u>	2B   <u> </u>			Agent

Page 1 of _	3_
Form WW2	-A
(6/94)	
File Copy	

1) 2)	Date: May 24, 1997 Operator's well number 160-117
3)	API Well No: 47 - 109 - 1667-G- State County Permit

## STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

(a) Name Posthontas Land Corp Address Post Office Box 1517 Bluefield, WV 24701  (b) Name Address	4)	Surface Owner(s) to be served: 5) (a)			
Bluefield, WV 24701   Charleston, WV 25324		(a) Name Pocahontas Land Corp	Name Eastern	Associated Coal Corp	
(b) Name Address   (b) Coal Owner(s) with Declaration   Name Pocahontas Land Corporation   Address Post Office Box 1517   Bluefield, WV 24701   Name Address   Name Address		Address <u>Post Office Box 1517</u>	Address 800 Lai	dley Tower	
Address   Name   Pocahontas   Land   Corporation   Address   Office   Box   1517				ston, WV 25324	
Address   District   State   S		(b) Name			
(c) Name Address    Name Address   Name Address		Address	Name Pocahont	tas Land Corporation	
Address    Name		7.55	_Address Post 01	Tice Box 1517	
Address    Address   Address   Address   Address   Post Office Box 398   Brenton, WV 24818-0398   Address   Address   Address   Brenton, WV 24818-0398   Address   Address   Address   Address   Telephone (304)-543-0764		(c) Name	Bluefie	eld, WV 24701	
Inspector Mr. Ofie Helmick Address Herenton, WV 24818-0398 Address Herenton, WV 24818-0398 Address Telephone (304)- 543-0764  TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:  Included is the lease or leases or other continuing contract or contracts by which I hold right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of W Virginia (see page 2)  I certify that as required under Chapter 22 of the West Virginia Code I have served copies this notice and application, a location plat, and accompanying documents pages 1 through the above named parties, by:  Personal Service (Affidavit attached)  X Certified Mail (Postmarked postal receipt attached)  Y Publication (Notice of Publication attached)  I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms acconditions of any permit issued under this application.  I certify under penalty of law that I have personally examined and am familiar with information submitted on this application form and all attachments, and that based on my inquin those individuals immediately responsible for obtaining the information, I believe that the information submitted on this application form and all attachments, and that based on my inquing is true, accurate, and complete.  I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment.  Well Operator PENN VIRGINIA OIL & GAS CORPORATION By:  Vice President  Address 999 Executive Park Bivd., Suite 300 Kingsport, TN 37660  Telephone 1-423-392-0500  Subscribed and sworn before me this als of Question and Question an		Vaga ess	Haine	<del></del>	
Address Fost Office Box 398 Name			_Address		
Address Fost Office Box 398 Name	6)	Inspector Mr. Ofie Helmick	(c) Coal Lessee v	vith Declaration	•
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Penn Virginia oil & Gas Corporation  Well Operator Penn Virginia oil & Gas Corporation  By:		I am aware that there are significant r	penalties for submi	itting false information, including	the
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Subscribed and sworn before me this also Notary Public    Sylication   Vice President   Vice President	Pool	Well Operat	torPENN VIRGINI	A OIL & GAS CORPORATION	
Notary Public		By:	C.M. Randal	of .	
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Subscribed and sworn before me this alst day of Quequet 1997  Notary Public			999 Executiv	e Park Blvd., Suite 300	
Telephone 1-423-392-0500 Subscribed and sworn before me this also day of Quaytat 1997  Notary Public					
Subscribed and sworn before me this aist day of <u>Oucut</u> , 19 <u>97</u> Notary Public		Telephone			
Kita Xtubon Notary Public	Subs				
		1/:	<u> </u>		
My commission expires 2-13-99		huta x	Julison	Notary Public	
	Мус	ommission expires a-13-9	9		
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