Ю150' -

KINGSPORT, TN 37660

RAVENCLIFF, WV 25913

WR-35 Line Charle 15-Aug-97 API # 47- 81-01099 C RAR 24 1998 State of West Virginia Division of Environmental Protection Section of Oil and Gas WV Division of bronners at Project Commence to Well Operator's Report of Well Work WILLIS BRANCH COAL CO. Farm name: Operator Well No.: 23C-WB-5 LOCATION: Elevation: 2,512.00 Quadrangle: PAX County: RALEIGH Deg. 55Min. 0 Sec. Deg. 15 Min. 0 Sec. TOWN District: 11100 Feet South of 37 10150 Feet West of 81 Latitude: Longitude Company: PENN VIRGINIA OIL AND GAS 999 EXEC. PARK BLVD., STE. 300 | Casing | Used in KINGSPORT, TN 37660-0000 | & Cement Left Fill Up Drilling Tubing in Well Cu. Ft. Agent: DANA BLACKSHIRE Size Inspector: RODNEY DILLON 13 3/8" 32' Permit Issued: 08/18/97 Well work Commenced: Well work Completed: 12/02/97 9 5/8" 12/22/97 Verbal Plugging Permission granted on: Rig Rotary * Cable Total Depth (feet) 1438 Fresh water depths (ft) Damp at

107' & 844'
Salt water depths (ft) Is coal being mined in area (Y/N)?N Coal Depths (ft): OPEN FLOW DATA Producing formation Beckley Coal open mine Pay zone depth (ft) 1433-1488

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

Final open flow N/A * MCF/d Final open flow Bbl/c

Time of open flow between initial and final tests Hours

Static rock Pressure 0 psig (surface pressure) after N/A Hours Bbl/c Bbl/c Hours Static rock Pressure 0 psig (surface pressure) after N/A * Note: Gas quality & quantity to be tested later Hours Pay zone depth (ft)
Initial open flow Second producing formation MCF/d Oil: Gas: Initial open flow____ Final open flow _ Final open flow_ MCF/d Bbl/d Time of open flow between initial and final tests 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, NOTE: ON BACK OF

For: PENN VIRGINIA OIL AND GAS CORPORATION

INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

By:

Date:

99

FORM WR-35R (REVERSE) PERMIT #: 47-081-01099 WELL#: 23C-WB-5

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale & Coal	0	560	Coal @ 259-261, 370-374, 556-560
Sand & Shale	560	1188	
Sand, Shale & Coal	1188	1232	Coal @ 1188-1190, 1217-1220, 1227-1232
Sand & Shale	1232	1433	
Open Mine	1433	1438	No shows reported

•			WELL WO	ORK PERMIT	' APPLICATIO	NC	061 15 00 0
-)	Well Ope	erator:_P					081 1099C 55 (6) 537
				23C-WB-			Elevation: 2513
4)	Well ty			or Ga:		Isse	08/18/97
		(d)	If Gas:	Production	n <u>%</u> / Underg	round Stor	nes 08/18/99 age_/
	Proposed	i Target 1	Formation	pee! s):_Beckl):	o/	Shall S. W	
4087						Environn	Division of Division of Protection
24				50		30[³ 1 1997
	Approxim	mate fresi	n water s	trata dep	hs: 30'	_	
	Approxim	mate salt	water de	pths: N/	Α	09 04	oliting Oil & Gas
	Approxim	mate coal	seam dept	ths: <u>290,</u>	389, 502,	563, 1232,	1438
10)	Does lar	nd contair	n coal sea	ems tribut	tary to act	ive mine?	Yes/ No_X_/
11)					te CBM Well		
12)				·			
			CASING	AND TUB	ING PROGRAM		
TYPE		SI	PECIFICAT	ZNOI	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ictor						
Fresl	n Water	13 3/8	L.S.	37	40	40	fill with cutting 28
Coal							
Inter	mediate						
Produ	ction	4 1/2	L.S.	20	1650	1650	680
Tubin	ıg						385818H.
Liner	s.						
PACKE	ZRS : Kin	.d					
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5/5-			or Office	of Oil a	nd Gas Use	Only	
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	Bradlev. WV 25818 (304)- 543-0769	<u>-0131</u> Addre	ess			
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		Addre	ess			
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	<u>San Anselmo, CA 94</u>	.960	Pax.	WV 259	04	
Address	Willis Branch Coal 157 Oak Springs Dr	ive Addr	ess PO Bo	x 69	Company	
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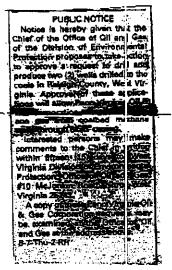
AFFIDAVIT OF PUBLICATION

BECKLEY NEWSPAPERS INC.

BECKLEY, WEST VIRGINIA 25801

gust 7		, 19 <u>97</u>	COPY
STATE OF WEST VIRG COUNTY OF RALEIGH	 -		
Director of Advertising f	t duly sworn upon my oath, do depose for Beckley Newspapers Inc., a corpo	oration, publisher	
I have been duly authori execute this affidavit of p more than one year prior that such newspaper is re	The Register-Herald, an Independent Zed by the board of directors of su- ublication; that such newspaper has be to publication of the annexed notice regularly published daily, for at least from municipality of Beckley, Raleigh Cour-	ch corporation to been published for described below; lifty weeks during	
that such newspaper is a fined in article three, cha amended, within the pub- county; that such newspa	newspaper of "general circulation" a apter fifty-nine of the Code of West lication area or areas of the aforesaid aper averages in length four or more p such newspaper is circulated to the g	as that term is de- Virginia, 1931, as municipality and ages, exclusive of	
definite price of consider general public resorts for social nature, and for cur	ation; that such newspaper is a newspaper is a newspaper is a newspaper passing events of a political, religious reent bappenings, announcements, mints and other notices; that the annexe	paper to which the s, commercial and iscellaneous read-	, ou a
of	Public Notice (Description of notice)		081-1044
was duly published in s	aid newspaper once a week for	.WO successive	
	_), commencing with the issue of the		Jillos
July, 1997 of the 7th day	, and end y of <u>August, 1997</u> , (and		•
on the day	y of)	that said annexed	
notice was published on	the following dutes: July 31	and	
August 7, 1997)	and that the	
cost of publishing said a	nnexed notice as aforesaid was \$22	Scott	
	Jack L. Scott Birector of Advertising		
	Beckley Newspapers		
Tuken, subscribed and s	worn to hefore me in my said county	this	
7th duy of A	ugust	19 <u>97</u>	
My commission expires	Marcin 27, 2001		
	Notary Public of Raleigh County,	-one	
	West Virginia		

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