

Charlester W

Farm name:

15-Aug-97 API # 47-109-01657 C

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

Well Operator's Report of Well Work

Operator Well No.: 10-C-227

GEORGIA-PACIFIC CORP.

LOCAT	ION:	Elevation:	2,061.90	Quadr	rangle: MA	THENY		
		District: Latitude: Longitude	14400 Feet	: Sout : West	h of 37	ounty: WYOMI Deg. 42Min. Deg. 30 Min	30 Sec.	
Compa	999	N VIRGINIA EXEC. PARK GSPORT, TN	BLVD., STE	E. 300	.	Used in Drilling		Cement Fill Up Cu. Ft.
Inspe Permi	Har ctor: t	A- BLA CKSHIR Ty Jewell OFIE HELMIC ed:	K 08/20/97		Size	22'	22'	0
Verba	l Plug	ommenced: ompleted: ging granted on:			9 5/8"	221'	221'	94
Rotar	v X	Cable 1 depths (ft	Riq	<u>'6'</u>	4½"	1244'	1244'	378
Salt	water	depths (ft)					The second secon	
Is co Coal	al bei Depths	ng mined in (ft):	area (Y/N)) ? <u>N</u>				
OPEN	FLOW D	ATA	L Poca 4,	Door	-		.*.	·
	Statio	rock Press	on Beckley, 1 flow 0 low show 1 flow between N/A	Little MCF MCF een i psi	e Raleigh co /d Oil: I /d F nitial an .g (surfac	pal gay zone nitial open inal open f d final tes e pressure)	after	Hours
	Second Gas: I F Statio	d producing Initial oper Final open f Time of oper Crock Press	formation_ n flow_ low_ n flow betw sure_	MCF MCF een i psi	7/d Oil: I 7/d F nitial an g (surfac	Pay zone nitial open final open final tes e pressure)	depth (ft flow low ts after	Bbl/d Bbl/d Bbl/d Hours Hours
INTER	RVALS, WHICH	FRACTURING	OR STIMUL EMATIC DETA	ATING LLED	HYSIC GEOLOGIC	IG: 1). DET TAL CHANGE, TAL RECORD	ETC. 2).	THE MELL

Date:

For: PENN VIRGINIA OIL AND GAS CORPORATION

FORM WR-35R (REVERSE) PERMIT #: 47-109-01657-C WELL#: 10C-227

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

Stage 1 Perforated the Lower Poca 4 coal from 1079' – 1082' with 12 holes. Breakdown with 250 gallons of 15% HCL acid and gelled water. Treated with 104 barrels of water and 1100 lbs 20/40 sand. ATR: 11.8 BPM ATP: 3480 psi ISIP: 4000 psi

Stage 2 Perforated the Poca 5 coal from 960' – 964' with 16 holes. Breakdown with 4% KCL water. Treated with 324 barrels water and 7.600 lbs 20/40 sand

324 barrels water and 7,600 lbs 20/40 sand.
ATR: 15 BPM

ATP: 1575 psi

ISIP: 750 psi

Stage 3 Perforated the Beckley coal from 720 – 724' with 16 holes. Breakdown with 4% KCL water. Treated with 137 barrels water and 1,750 lbs 20/40 sand.

ATR: 13.3 BPM ATP: 2800 psi ISIP: 4000 psi

Stage 4 Perforated the Little Raleigh coal from 616 - 619' with 12 holes. Breakdown with gelled water. Treated with 195 barrels water and 5,800 lbs 20/40 sand.

ATR: 12.5 BPM ATP: 3000 psi ISIP: 1700 psi

<u>FORMATIONS</u>	<u>TOP</u>	BOTTOM	<u>REMARKS</u>
GI I			
Shale	0	260	
Sand	260	390	
Shale	390	400	
Sand	400	442	
Coal	442	446	
Sand & Shale	446	617	
Little Raleigh Coal	617	618	•
Sand & Shale	618	720	
Beckley Coal	720	723	
Shale	723	760	•
Sand	760	960	
Poca 5 Coal	960	963	
Sand & Shale	963	1080	
Lower Poca 4 Coal	1080	1081	
Sand & Shale	1081	1281	Gas checks - No shows reported

	DIVIS	PTON OF ET			APPLICATION		AND GAS	
1)	Well Ope	erator: PE	NN VIRGI	S JIO AIV	GAS CORPORA	ATION 373	55 (3)	363
2)	Operator	's Well M	Number:	100-227			Elevation: 2061	
4)	Well typ	be: (a) (oil/	or Gas	<u> </u>	Issued	08/20/97	
		(b) 1	If Gas:	Production	n X / IIndera	round Stor	age/	
24109	D	. .	7		p_/		low/	
24						iey, roca 7,	Four Poca 4	
				1250	<u> </u>		Environmentalian of AUG 0:	
	Approxim	ate fresh	n water s	trata depi	ths: 170'		AUG D , 1997	
	Approxim	nate salt	water de	pths: N/A	<u> </u>	Citto	Pennitus 0 011 8 058-962	•
9)	Approxim	nate coal	seam dep	ths: <u>448-451</u>	open mine,	<u>614-615, 717</u>	7-720. 9 58-962.	
				1142-11	.44 *		Yes/ No_x_/	
11)	Proposed	l Well Wor	ck: Drill	and complet	e a CBM well	in the coals	s listed above	
12)				g ran on Wel			_	•
,			CASIN	G AND TUB	ING PROGRAM	!		
TYPE		SI	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT	
		Size	Grade	Weight per ft.	For drilling		Fill-up (cu. ft.)	
Condu	ctor							
Fresh	Water	9 5/8	L.S.	- 26	230	230	72	
Coal		7	L.S.	17	550	550	89	
Inter	mediate							
Produ	ction	4 1/2	M- 65	9.5	1250	1250	128	
<u>Tubin</u>	g							
Liner	S	1				·		
PACKE	RS : Kin	ıd						
	Siz	es ths set						
-9 <u>/</u>				of Oil a	nd Gas Use	Only		
i	Fee(s) p		_			_	und WPCP	•
			<u>.</u> . — ·		· ·		*	
1 1	Plat '	_ WW-9	ww-	2B F	Bond	(Type)	Agent	

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



1) 2) **Date**: 04-19-1997

Operator's well number

10C-227

API Well No: 47 - 109 3) State County

- 1657-C 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

4)	(a) Name Georgia Pacific Corn) Coal Operator: Name
	Àddress PO Box 105605	NameAddress
	Atlanta, GA 30348	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	
	(c) Name	_Address 39 Robin Place
	Address	Name
	/ \ddi \co	Beckley, WV 25801 Name Address
3)	InspectorMr. Ofie Helmick	(c) Coal Lessee with Declaration
	Address PO Box 398	Name
	Brencon, wv 24010	Addiess
	Telephone (304)543-0764	
	TO THE PERSON(S) NAT	MED ABOVE TAKE NOTICE THAT:
	10 THE LEGORIO HAR	MED ADOVE TAKE NOTICE THAT.
	Included is the lease or leases or other	er continuing contract or contracts by which I hold the
right	to extract oil and gas <u>OR</u>	
X	Included is the information required by	Chapter 22, Article 6, Section 8(d) of the Code of West
Virgi	nia (see page 2)	
· • -	I certify that as required under Chapte	r 22 of the West Virginia Code I have served copies of
inis i	notice and application, a location plat, a	and accompanying documents pages 1 through on
ine a	bove named parties, by:	
	Personal Service (Affidavit attac	XIEO)
	Certified Mail (Postmarked posta	al receipt attached)
	x Publication (Notice of Publicatio	on attached)
	I have read and understand Chanter 1	22-6 and 38 CSR 11-18, and I agree to the terms and
cond	itions of any permit issued under this app	nlication
	certify under penalty of law that I	have personally examined and am familiar with the
nfor	nation submitted on this application form	n and all attachments, and that based on my inquiry of
those	individuals immediately responsible for	obtaining the information, I believe that the information
s tru	e, accurate, and complete.	•
	I am aware that there are significant r	penalties for submitting false information, including the
poss	ibility of fine and imprisonment.	
	Well Opera	ROT PENN VIRGINIA OIL & GAS CORPORATION
	By:	ull Cloth
	Its:	Vice President
	Address	999 Executive Park Blvd., Suite 300
		Kingsport, TN 37660
C. Jha	Telephone	1-423-392-0500
Subs	scribed and sworn before me this <u>14+</u> 7 da	ay of <u>Հաև</u> , 19 <u>ԳԴ</u>
	Kita of 1 a	V \
Mv	ommission expires 2-13-99	Notary Public
viy C	ommission expires <u>2-13-99</u>	

Date



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-01657 ρ WELL NO.: 10C-227
FARM NAME: Georgia Pacific Corporation
RESPONSIBLE PARTY NAME: Mr. Richard Waddell
COUNTY: Wyoming DISTRICT: Center
QUADRANGLE:Matheny
SURFACE OWNER: The Forest Land Group, LLC
ROYALTY OWNER: Penn Virginia Oil & Gas Corporation
UTM GPS NORTHING: 4169170.84
UTM GPS EASTING: 455012.58 GPS ELEVATION: 629.53
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential Real-Time Differential Mapping Grade GPS X : Post Processed Differential Real-Time Differential Real-Time Differential Real-Time Differential Real-Time Differential
I the undersigned, hereby certify this data is correct to the best of my knowledge and office of the belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.
Signature Title

WAY 2 1 2000