



RECEIVED APR 11 1891

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: WIRGINIA ELECTRIC & POWER Operator Well No.: 22291

LOCATION: Elevation: 3807.39 Quadrangle: MOUNT STORM LAKE

District: UNION County: GRANT

Latitude: 12025 Feet South of 39 Deg. 12Min. 30 Sec. Longitude 4925 Feet West of 79 Deg. 17 Min. 30 Sec.

Company: COLUMBIA NATURAL RESOURCE				
P.O. BOX 6070	Casing	Used in	Left	Cement
CHARLESTON, WV 25362-6070	&			Fill U
Agent: JOSEPH E. CAMPBELL	Tubing	Drilling	in Well	Cu. Ft.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Size		I	
Inspector: PHILLIP TRACY	į		S .	i
Permit Issued: 09/10/90 Well work Commenced: 10/10/90	13-3/8	60	i 60	41
Well work Completed: 11/15/90				
Verhal Plugging	0 = 10		<u> </u>	1
Permission granted on: 11/11/90	9-5/8	2977	2977	932
Rotary X Cable Rig			I	 
Total Depth (feet) 10,200	5-1/2	9900		
Fresh water depths (ft) 64/74				
Salt water depths (ft)				
				! 
Is coal being mined in area (Y/N)? N	i ı	1		
Coal Depths (ft):	Ì			

OPEN FLOW DATA Well was P & A 11/15/90

Producing formation	Oriskany	Pay zone depth	(#t)	
Gas: Initial open flow	MCF/c	Oil: Initial open flow		Bbl, :
Final open flow	MCF/d	l Final open flow		Bbl
Static rock Pressure	between ini	tial and final tests		Hours
Jeacie fock Flessure	psig	(surface pressure) afte	r	_Hour :
Second producing format	cior	Pay zone depth	(ft)	
Gas: Initial open flow	MCF/d	Oil: Initial open flow	, /	Bbl,
Final open flow	MCF/d	Final open flow	_	_Bbl/d
rime or open flow	Detween ini	tial and final tests		Hours
Static rock Pressure	bsid	(surface pressure) after	r	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.

For:	COLUMBIA NATURAL	RESOURCES,	INC.
	By: Joseph Company	1.0	
	by: Journey	leg	
	Date/	· · · · · · · · · · · · · · · · · · ·	
	\$ <del></del>		

## WELL 22291

## Formations

0 - 64°	Soft Fill/Sandstone hard/1-1/2" stream water at 16'
64 - 172'	Shale
172 - 179'	Coal
179 - 583'	Shale Sand
583 - 887*	Red Rock/Sand Shale
887 - 5078°	Sand Shale
5078 - 5260'	Sand Shale
5260 - 5312'	Scherr
5312 - 6500'	Shale and Sand
6500 - 7320'	Silt and Shale
7320 - 8800'	Silt and Shale
8800 - 9230'	Shale
9230 - 9880'	Oriskany Sand
10,200 = TD	Oriskany Sand

RECEIVED 06-May-9/1 MAY 20 1991 DEPT. OF EMERGY

WR-38

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

## AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra

copies if respective	required) s addresses.	hould be	mailed	to e	acn co	ar operat	or at	CHETT
Farm name:	VIRGINIA E	LECTRIC &	POWER O	perato	r Well	No.:22291		
LOCATION:	Elevation: District: Latitude: Longitude	TTRT T AT			Countre	CRANT	) Sec. ) Sec.	
Well Type:	OIL	GAS X						
P.	umbia Natural O. Box 6070 rleston, WV 2			or <u>Ow</u>	ner	Box 48-K Craigsvill	≥ #1 	
Inspector:	seph E. Campbe Phillip Tra ed: 05/06/9	гсу	# 1	Coal or Ow		or		
			AFFIDA	VIT				
STATE OF WE County of	ST VIRGINIA Kanawha	ss	•					
in the wor	Marvin Gra sworn acco k of pluggi atural Resourd ugging and	ng and fi	lling oi , wel	l and l ope	gas well rator,	and parti	re emplo	in the
on the 1	lugging and	Of Nov.	mhar .	1990	and th	at the we	ll was r	olugged
and filled	ugging and lth day in the foll	owing ma	nner:					
T	7PE	FROM	N -	TO	PIF	E REMOVED	LEF	T
Set Baker 6	AA, 9-5/8" Drį	llable Plug	g @ 9 800°	& 7950°	I			
Cement Plug		4750		5000			<u> 13-3/8</u>	csg. 69'
Cement Plug		3150		3050			_	
8.6 PPG Mud		10247		9800			_ <u>  9-5/8''</u>	<u>csg. 29</u> 7
8.6 PPG Mud	,	9797		7950			_	
8.6 PPG Mud		7947		5000			_	
8.6 PPG Mud		<u>4750</u> 3050	•	3150 GL				
8.6 PPG Mud	/Ge1 (d	3030		GL.		M	[HO   ]	91
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and th	nat the wor	k of plu	igging ar	nd fill		id well wa	s comple	eted on
And furthu	r deponents	saith not	• 4,			A This		
Sworn and a My commiss	subscribe be ion expires:	efore me t May 28, 1	his <u>/5</u>	day	Heplen (	May !. Small		19 <i>9/</i>
		V			2000	Notary Pu	blic	

47-023-0027

Issued 9/10/90

FORM WW-2B

SEP 05 1990 OF WEST

WEST VIRGINIA

Page 3 of 4
Cypyred 9/10/92

DEPARTMENTO DELEGY, DIVISION OF OIL AND GAS

1)	Well Ope	rator:	Columbi	a Natural Re	sources, Inc.	10460 (3	3) 491
2)	Operator	's Well h	Number:	22291		3) Ele	evation: <u>3807.</u> 39
4)	Well typ	e: (a) (	Dil_/	or Gas	<u>X</u> /		
		(b) 1	If Gas:	Production Deep		ound Storage Shallov	
5)	Proposed	Target I	Formation	(s): <u>Oris</u>	kany 475		
6)	Proposed	Total De	epth:	9900	feet		
7)	Approxim	ate fresl	n water s	trata dept	hs:		
8)	Approxim	ate salt	water de	pths:	-		
9)	Approxim	ate coal	seam dep	ths:			
10)	Does lan	d contair	n coal se	ams tribut	ary to acti	ve mine? Ye	es/ No_X/
11)	Proposed	Well Wor	ck: Drill	Gas Well/St	imulate //	eurelell	
12).			CASIN	G AND TUBI		Explorator	y Well
TYPE		SI	PECIFICAT		FOOTAGE IN		CEMENT
·		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	13-3/8"	Н	48	60	60	36
Fres	n Water					()	3805918-183
Coal						Γ(.	38 CSP1811,2,2
<u>Inte</u>	rmediate	9-5/8"	J	40	3000	3000	940
Prod	uction	5-1/2"	N	17	9900	9900	555
Tubi	ng						38CSR1811.1
Line:	rs						
PACK	Siz						
- Trug		,	or Diviso	n of Oil -	and Gas ,Use	0.11	
\$ 35	Fee(s) p	4		ork Permit		amation Fund	WPCP
1	Plat	WW-9	Metr W		Bond Ar-1	the Stanfold	Agent

	1 of <u>4</u>		IVED \	1)		<u>August 22</u>		
	WW2-A	SEDO	5 1990	2)		's well nu		
(09/8	37)	OLP U.	5 1900			22291		
		DEPT	.030	3)	API Well	No: 47 -		
		DEPT. OF E	NERGY /			State -	County -	- Permit
					27 Th 100 100 100 100 100 100 100 100 100 10			
		000000000000000000000000000000000000000			VIRGINIA		ma do	
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		NOTICE AND	J APPLICAT	TON R.C	JR A WELL	WORK PERM	<u>111</u>	
4)	Surface Or	wner(s) to	ha carrad		E\	o=1 0====i		
-2 /		Virginia Ele			Name	oal Operat	or:	
	Address	P. 0. Box 26	666	<u> </u>	Address	·		
		Richmond, VA	23261		nuuress.		WWW.christon.com/com/com/com/com/com/com/com/com/com/	
	(b) Name				(b) Coal	Owner(s)	with Dec	claration
	Address			macandad information (n/t)		inion Reserv		
	- constitue					Attn: Rona		
	(c) Name					26532, Feder		
	Address					Richmond, \		
					Address			
6)	Inspector	Phillip Tra	су		(c) Coal	Lessee wi	th Decla	aration
4		Rt. 2, Box			Name			
		Montrose, W	V 26283	***************************************	Address .			
	Telephone	(304) - <u>636</u>	<del>-</del> /398	***************************************				
			7081/01 1151	-				
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	I certify	that as re	or west v	der C	la (see po	aye 2) Bof the b	Jost Wire	rinia Codo
I hav	/e served (	copies of	this notic	e and	applicat:	ion aloc	ration nl	TIMIA COUE
accor	mpanying de	ocuments pa	ages 1 thr	ough	A on the	e shove na	acion pi	iec hv:
	Perso	onal Servi	ce (Affida	vit at	tached)	- 42046 116	mce pare	.ies,by.
	X Cert:	ified Mail	(Postmark	ed pos	stal recei	ipt attach	ned)	
	Publ:	ication (No	tice of P	ublica	ation atta	sched)	,	
		-						
	I have rea	ad and unde	erstand Ch	apter	22B and 3	38 CSR 11-	-18, and	I agree
to th	ne terms an	nd condition	ons of any	permi	it issued	under thi	is applic	cation.
	I certify	under pena	alty of la	w that	: I have p	personally	v. examine	ed and am
fami]	liar with t	the informa	ation subm	itted	on this a	application	n form a	ind all
attac	chments, a	nd that bas	sed on my	inqui	y of thos	se individ	luals imm	nediately
respo	onsible for	r obtaining	g the info	rmatio	on, I beli	ieve that	the info	rmation -
is tr		ate, and co						
	ı am aware	that then	ce are sig	nifica	ant penali	ties for s	ubmittin	ng false
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NOTARY	PUBLIC STATE OF	VEST VIRGINIA		atgr	o lumb a N	<u>latural Reso</u>	urces, Inc	· •
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≽	P. O. 30X 607	0 0 0	Address	e Presi		ing and Pro	auction up	<u>perations</u>
· =	CHARLESTON, WY	05 - 25 - 98			P. O. Box Charleston		·	
AZ MY C	UMINIOSIUM LAFIRES	<u>AAAAA</u>	Telephone	······································	304/353-50	100		
Subso	cribed and	sworn befo			, <del>∪∪-/ ∪∪3-0</del> 0 day of	Augus		, 1990
					- 7/ .	1 3 4 4 5	<u></u>	
				_	Stephen V.	Smolde	Not=	ry Public
My co	ommission e	expires		May	25,1998			