

J3W 933 G

3-6 Bowden

(376) I

DPT-Tusc.

James idoslag Expresidoslas Page of

# STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

•				- المناه		( )	012	
1) We	ell Ope	erator:_	CNG Devel	opment Compa	ny /0/10	(1)	36	
2) Op	perato	r's Well	Number:_	CNGD 3571		3) E	Clevation: 3815.	
				or Ga				
				Productio	n X / Underg $p X /$	round Stora Shall	ge/ ow/	
5) Pr	oposed	l Target	Formatio	n(s):Tu	scarora 575			
6.) Px	Proposed Total Depth: 10,800 feet							
7) Ap	proxin	mate fres	h water	strata dep	ths: 1121,	1971		
				epths:non				
•				pths: 665				
_						•		
						ive mine?	Yes/ No_X_/	
	oposec	l Well Wo	rk: D	rill new wel	1			
12)			CASI	NG AND TUB	ING PROGRAM			
TYPE		S	PECIFICA	rions	FOOTAGE II	TERVALS	CEMENT	
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up	
Conduct	or	20	K-55	54	40	40	Sand in	
Fresh W	ater	9 5/8	J-55	36	2200	2200	To surface 38CSR-18-11.3	
Coal								
Interme	diste	7	N-80 P-110	26 26	7600 1400	7600	250-350 sks	
						1400	38CSR-18-11.1 250-350 sks	
Product	ron	5" liner	P-110	15	1800	1800	38CSR-18-11.3	
Tubing								
Liners								
PACKERS							ED 97 7000	
	Dep	es ths set _				Kr.43 2	EP & 1 1389 6 26	
315		F	or Diviso	n of Oil a	and Gas Use		ION OF OIL & GAS TMENT OF ENERGY	
Fe	e(s) p	aid:  _	_ _  Well W	ork Permit	Recl	amation Fur	nd   WPCP	
`					Bond		      Agent	
					. (	Type)		

	1 of	Date:
	WW2-A 2)	Operator's well number
	87) LS SEP 27 1989	CNGD 3571 API Well No: 47 - 083 - 1098
File		
		•••
	DEPARTMENT OF TATES OF WEST	VIDCINIA
	DEPARTMENT OF ENERGY, DIV	VIRGINIA VIRGINIA
	DEFARIMENT OF ENERGY, DIV	FIDION OF OIL AND GAD
	NOTICE AND APPLICATION FO	NE A WELL WORK DERMIT
	NOTICE AND APPLICATION PO	OR A WELL WORK FERRIT
4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
7 /	(a) Name <u>U.S. Forest Service</u>	Name
	Address 200 Sycamore Street	Address
	Elkins, WV 26241	
		(b) Coal Owner(s) with Declaration
	(b) NameAddress	Name same as Surface Owner
		Address
	/a\ Namo	Address
	(c) Name	Namo
	Address	Name
		Address
<i>c</i> )	Inchestor Dillia Marco	(c) Coal Lessee with Declaration
6)		• •
	Address Rt. 2, Box 37-A	Name
	Montrose, WV 26283	Address
	Telephone (304)- <u>636-8798</u>	
	מר שמונו ואואס משת שטם אחר אם מ	ייים אוסחורים חטאח.
	TO THE PERSON(S) NAMED ABO	JVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
	Included is the lease or leases or	
Cont	racts by which I hold the right to e	extract oil and gas <u>uk</u>
	Included is the information require	
Sect	ion 8(d) of the Code of West Virgini	
		napter 22B of the West Virginia Code
	ve served copies of this notice and	
acco	mpanying documents pages 1 through	
	X Personal Service (Affidavit at	
	Certified Mail (Postmarked pos	
	Publication (Notice of Publication	ation attached)
		PR 407 407 100 mil 100 000 000 000 000 000 000 000 000 00
	I have read and understand Chapter	
to t	he terms and conditions of any perm	it issued under this application.
		t I have personally examined and am
	liar with the information submitted	
atta	chments, and that based on my inquir	ry of those individuals immediately
resp	onsible for obtaining the information	on, I believe that the information
is t	rue, accurate, and complete.	
	I am aware that there are signification	ant penalties for submitting false
info	rmation, including the possibility of	of fine and imprisonment.
		CNG Development Company
	By: OSA	the state of the s
		sor Purchasing/Production Services
	Address One Par	-k Ridge Center, P. O. Box 15746
		urgh. PA 15244
	Telephone	(412) 787-4117
Subs	cribed and sworn before me this 15	day of June , 1989
0		NOTARIAL SEAL
Da	vara Z. Kandall	BARBARA L. RANDALL, NOTARY PUBLIC NOTARY Public FINDLAY TOWNSHIP, ALLEGHENY COUNTY NOTARY Public
Мус	ommission expires	FINDLAY TOWNSHIP, ALLEGHENY COUNTY  MY COMMISSION EXPIRES APRIL 5, 1993
	• " "	

## State of West Virginia PARTMENT OF ENERGY Division of Oil and Gas

### Well Operator's Report of Well Work

Farm	name:	MONONGAHELA	NAT'L FOREST	Operator Well	No.:	CNGD	3571

OCATION:

Elevation: 3815.30 Quadrangle: BOWDEN

County: RANDOLPH District: BEVERLY Latitude: 8350 Feet South of 38 Deg. 57Min. 30 Sec. Longitude 11800 Feet West of 79 Deg. 40 Min. 0 Sec.

Companie CNC DEVELOPMENT CO A DEL				
Company: CNG DEVELOPMENT CO. A DEL P. O. BOX 15746 PITTSBURGH, PA 15244-0000	Casing &	Used in	Left	Cement    Fill Up
	Tubing	Drilling	in Well	Cu. Ft.
Agent: RODNEY J. BIGGS	Size	1		
Inspector: PHILLIP TRACY Permit Issued: 10/05/89 Well work Commenced: 10/30/89	13 3/8"	40.70'		
Well work Completed: 8/4/90  Verbal Plugging  Permission granted on:	<u>9_5/8"</u>	2181.94	   2181.94'	     775_sks_
Rotary X Cable Rig Total Depth (feet) 11,197' Fresh water depths (ft) 57'	7" 	9526.69'	9526.69'	350 sks
Salt water depths (ft)		8172' KB	8172' KB	
Is coal being mined in area (Y/N)? N Coal Depths (ft): 85 - 87	RECE			
OPEN FLOW DATA	AUG I	F ENERGY		8517-8526
Producing formation Oriskany Gas: Initial open flow MCF, Final open flow 89/85 MCF,	d oil:	Pay zone on title property of the control of the co	depth (ft flow	) <u>8535-8546</u> Bbl/d Bbl/d
Time of open flow between in Static rock Pressure 2310 psice	nitial and	d final test	ts	Hours
Second producing formation Cherk Gas: Initial open flow MCF, 8/4/90 Final open flow 1,806 MCF, Time of open flow between in Static rock Pressure 2000 psice	/d Oil: II /d F nitial and	nitial open inal open fi d final tes	low low	Bbl/d Bbl/d 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.

_		Rodney J. B			
For: (	CNG DEV	ELOPMENT	ČŌ. A D	EL. COR	Ρ.
		1	$\sim$		
	<b>.</b>	bla 11	1/		
1	By:	J-C-R	1298	2	
I	Date:	August 7.	1008		

#### PLUG BACK:

Plug #1 from 11,153' to 10,965'; used 35 sks C1."H" Cmt.
Plug #2 from 10,225' to 10,091'; used 25 sks C1. "H" Ctm.
Plug #3 from 9,500' to 9,360'; used 25 sks C1."H" Cmt.
Set 7" Halliburton ESV Cement retainer on D.P. at 8730' & Dropped 3 sk. sand on retainer

#### PERFORATED/ACIDIZE ORISKANY:

Perf. from 8517 - 8526, 27 holes; 8535 - 8546, 44 holes; Used 4" HSC. Brokedown Perf. at 5000#, ISIP 3600#, 15 min SI 1500# Acidize - Ave. Rate 23 1/2, Ave. Pres. 2910# on tubing, 3620# on Annulus, Max. Pres. 3760#, 708 bbl fluid used, ISIP 2610#, 15 min 2000#, pumped 4000 gal 15% FE Acid.

#### PERFORATED/ACIDIZE CHERT:

Perf. from 8222 - 8298, 96 holes, .46" dia., 4" HSC
(Set Baker Model G Retrievable Bridge Plug @ 8375' KB)

Acidize - Breakdown 4300#, Avg. HP 3 pumps, Ave Rate 20 bbl Annulus, 3 bbl tubing, Ave Pres. 3400#, Max Tr Pres. 3700#, Total Acid 12,800 gal, Total Fluid 976 bbl, ISIP 1850, 5 min 1470, used total 180,000 SCFN<sub>2</sub>

KB to GL	0	20	
Fill	20	24	
Sd & SH	24	85	
Coal	85	87	
Sd, Sh & RR, Lime	87.2	s 8220°	
Chert	8220	8306	11203
Sd, Sh & Lime	8306	8846	The state of the s
Chert	8846	8854	-8616
Sd, Sh. & Lime	8854	11197	
		<del>,-</del>	2587 Exp
LOG TOPS		2	
Tully	7862	7882	
Marcellus	8097	8137	
Purcell	8137	8188	
Onondaga	8188	8221	
Huntersville Chert	8221	8358	
Needmore Shale	8358	8394	
Oriskany	8394	8616	
Helderberg	8616	8806	
Mandata Shale	8806	8838	
Keyser Ls.	8838	9072	
Salina	9072	9796	
Wills Creek	9796	10062	
Williamsport Ss.	10062	10069	
McKenzie Ls.	10166	10481	
Rose Hill Sh.	10481	10857	
Cacapon Ss.	10857	10902	
Upper Tuscarora Ss.	11048		

11203

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TD