



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

DIVISION OF OIL & GAS DEPARTMENT OF ENERGWell Operator's Report of Well Work

Farm name: PEARCY, PEARL Operator Well No.: CNGD 3481 LOCATION: Elevation: 720.00 Quadrangle: NORMANTOWN Watershed: Left Fork of Steer Creek CENTER County: GILMER District: 9300 Feet South of 38 Des. 52Min. 30 Sec. Latitude: 2580 Feet West of 80 Des. 57 Min. 30 Sec. Lonsitude Company: CNG DEVELOPMENT CO., A DE P. O. BOX 15746 | Casing | Used in | Left ICement L PITTSBURGH, PA & | IFill Upl | Tubing | Drilling | in Well|Cu. Ft.| Asent: RODNEY J. BIGGS Inspector: CRAIG DUCKWORTH 1 Permit Issued: 11/19/88 16" Well work Commenced: 12/20/88____ Well work Completed: __12/29/88_____ Verbal Plussins 11 3/4" 129 Permission granted on: Rotary_X___ Cable ____ Rig Total Depth (feet) _____4828_____ 1 8 5/8" 1 To Surf. 1676 1676 Fresh water depths (ft) 50', 455', 850' |----Salt water depths (ft) _____ 4 1/2" 4845 4845 1 Is coal being mined in area (Y/N)?_N | j Coal Depths (ft):______ 4021 2 3/8" | 4021 OPEN FLOW DATA 3570-4149 2788-3072 Producing formation Shale Pay zone depth (ft) 2088-2387 Gas: Initial open flow_____Bb1/d Final open flow___231___MCF/d Final open flow _____Bbl/d Time of open flow between initial and final tests___4___Hours Static rock Pressure____50___psis (surface pressure) after $\frac{1}{2}$ ___Hours Second producing formation_____ Pay zone depth (ft)_____ Gas: Initial open flow_____Bb1/d Final open flow_____Bbl/d Final open flow _____Bbl/d Time of open flow between initial and final tests_____Hours Static rock Pressure______psid (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, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Rodney J. Biggs, Manager

For: CNG DEVELOPMENT CO., A DELAWARE CORP.E.B 3

Bu:
Date: January 13, 1989

Perf. 1st stage 3570 - 4149, 22 shots. Nowsco Foam Frac - Broke 1600#, ISIP 230#, Ave Rate 45 BPM, Downhole Ave Pres. 2380, Total Sand 50,000# 20/40, Total Nit. 358 MCFN2 Total Fluid 139 bbl_{M0} 432

2nd stage Perf. 2788-3072, 22 shots. Foam Frac - Broke @ 2000#, Ave Rate 45 BPM, downhole Ave Pr. 1980#, Total acid 500 gal, Total Sand 50,000# 20/40, Total N_2 290.4 MCFN₂, Total Fluid 139 bbl $\frac{1}{2}$ $\frac{3}{2}$

3rd stage Perf. 2088 - 2387, 20 shots. Foam Frac - Broke @ 2000#, Displace ball & acid at 45 BPM, Ave Pr. 1780, Ave Rate 45 BPM, downhole total acid 500 gal, Total Sand 50,000# 20/40, Total N₂ 231,000 SCF, Total Fluid 163 bbl.

Clay	0	3	2" stream water @ 50'
Sd, Sh & RR	3	1392	$1\frac{1}{2}$ " stream water @ 455'
Little Lime	1392	1416	l" stream water @ 850'
Sd & Sh	1416	1435	3/4" - 1" stream oil @ 1190'
B.Lime & Injun	1435	1600	
Sd & Sh	1600	2360	
Lime	2360	2365	
Sd & Sh	2365	4828	

LOG TOPS

Maxton	1285	1364
Little Lime	1382	1408
Blue Monday	1410	1414
Pencil Cave	1414	1432
Big Lime	1440	1508
Big Injun	1508	1583
Weir	1802	1860
Devonian Shale	1896	
Warren	2787	2819
Devonian Shale		TD (4774)



DAVISION OF OIL & GAS DEPARTMENT OF ENERGY

Josued 11/19/88 Expres 11/19/90

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

		12			72 / -	
1) Well Op						
2) Operato	Operator's Well Number: CNGD 3481 3) Elevation: 720					
4) Well ty						
	(b) If Gas: Productionx/Underground Storage_/ Deep_/Shallowxx/					
5) Propose	4 35					
	Proposed Total Depth: 4500 feet					
7) Approxi	mate fres	h water s	strata dep	ths:	245 13	30 [/]
				OK Passe	7	-H50'
9) Approxi	mate coal	seam der	oths: 0	K		
10) Does la	nd contai	n coal se	eams tribut	tary to act	ive mine?	es/ No_x_/
		rk: Drill			•	
12)						•
				ING PROGRAM	1	
TYPE	<u>s</u>	<u>PECIFICAT</u>	IONS	FOOTAGE I	NTERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	ŕ					
Fresh Water	11-3/4	H-40	42	120	120	To surface
Coal						To surface
Intermediate	8-5/8	X-42	23	1650	TOSE OK	38CSR1811.2.2 & 38CSR181/.3
Production	4-1/2	J-55	10.5	4500	4500	200-400 sks 38CSR18-11.1
Tubing	1-1/2	CN-55	2.75			
iners					DIE	CIEUVISIN
PACKERS: KindNOV 03 1988						
Sizes						
DEPARTMENT OF ENERGY FOR Pivison of Oil and Gas Use Only						
Fee(s) paid: Well Work Permit Reclamation Fund WPCP						
Plat	WW-9	W-	2B (B	lond 500	slanket	Agent
(Type)						

Page	1	of _	
Form	W	W2-A	
(09/8	37)	
File	C	ору	

My commission expires

C		V	1)
NOV	03	198	. 3	<i>,</i>)

Date: October 25	, 1988	
Operator's we	ll number	
CNGD 3481		
ADT Well No.	47 - 021	- 4741

State - County - Permit

Notary Public ...

DIVISION OF OIL & GAS

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

	DELAKTREAT OF EMERGI,	DIVIDION OF OIL AND GAS
	NOTICE AND APPLICATIO	N FOR A WELL WORK PERMIT
		Owner
4)	Surface Owner(s) to be served:	- · · · · · · · ·
	(a) Name <u>Pearl Pearcy</u>	
	Address Lockney, WV 25258	Address c/o George A. Vandale
		Vandale Funeral Home, Box 200, Spencer, WV25276
	(b) Name	
	Address	Name Carol Luverna Gordon
		A 29 Portoford Asso
	(c) Name	
	Address	
		Address c/o Mrs. Alfred Boggs
		P.O. Box 191, Culpepper, VA 22701
6)	Inspector <u>Craig Duckworth</u>	
	Address Box 107, Davisson Rt.	
	Gassaway, WV 26624	NameAddress
	Telephone (304) - 364-5942	- Indicos
	384=3447	
	TO THE PERSON(S) NAMED	ABOVE TAKE NOTICE THAT:
	io ind i bhoom (b) himbb	ADOVD TAKE NOTICE THAT.
I ha	ave served copies of this notice	r Chapter 22B of the West Virginia Code and application, a location plat, and gh on the above named parties, by: t attached) postal receipt attached)
fami atta resp	the terms and conditions of any p I certify under penalty of law iliar with the information submit achments, and that based on my in ponsible for obtaining the inform	ter 22B and 38 CSR 11-18, and I agree ermit issued under this application. that I have personally examined and am ted on this application form and all quiry of those individuals immediately ation, I believe that the information
is t	rue, accurate, and complete.	
	I am aware that there are signi	ficant penalties for submitting false
info	ormation, including the possibili	ty of fine and imprisonment.
	Well Operat	or , CNG Development Company
SUIDOUL	NOTARIAL SEAL BY:	Dett.
MOT VAJORE	BROWN, NOTARY PUBLIC VNSHIP, ALLEGHENY COUNTY Address o	sor Purchasing/Production Services
MY COMMIS	SION EXPIRES JUNE 18, 1990 Address One	Park Ridge Center, P.O. Box 15746
ember, Penns	Svivania Association of Victor	shurgh PA 15244
	Telephone /	(412) 787-4117 //
Subs	scribed and sworn before me this	25 day of October , 1988
		- p 9