

- - - - 9/Ut

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

Well Operator's Report of Well Work

Farm name: HARPER, LUCY Operator Well No.: CNGD 3619 Elevation: 1184.00 Quadrangle: WEST UNION LOCATION: County: DODDRIDGE District: WESTUNION Latitude: 7400 Feet South of 39 Deg. 15Min. 0 Sec. Longitude 1975 Feet West of 80 Deg. 47 Min. 30 Sec. Company: CNG DEVELOPMENT CO., A DE Casing | Used in | Left | Cement | P. O. BOX 15746 |Fill Up| PITTSBURGH, PA 15244-0000 Tubing | Drilling | in Well|Cu. Ft. Agent: RODNEY J. BIGGS Size Inspector: MIKE UNDERWOOD 03/23/89 Permit Issued: _177____To_Surf_ _11_3/4"_ 06/08/89 Well work Commenced: Well work Completed: 06/13/89 8 5/8" 1529 1529 To Surf. Verbal Plugging Permission granted on:

Rotary X Cable Rig

Total Depth (feet) 5390

Fresh water depths (ft) 50', 350'damp, 4 1/2" 550 sks 5365 5365 512 damp Salt water depths (ft) Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA Producing formation Alexander Pay zone depth (ft) 5198-5121

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow 1538 MCF/d Final open flow Bbl/d Time of open flow between initial and final tests 4 Hours Static rock Pressure 1250 psig (surface pressure) after 24 Hours Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Wine of open flow between initial and final tests Hours Time of open flow between initial and final tests_ Hours psig (surface pressure) after Static rock Pressure 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.

By:

Date: June 28,

Rodney J. Biggs, Manager
For: CNG DEVELOPMENT CO., A DELAWARE CORP.

Rod

概ななななない。これできななできるからには、ことので

Perforated Alexander with 3 1/8 HSC (.39) 5196 - 5198, 2 holes; 5183 - 5187, 4 holes; 5168 - 5177, 9 holes; 5149 - 5160, 11 holes; 5121 - 5125, 4 holes

Foam Frac (70Q) Alexander - Break 1050, Avg TPSI 2858, Avg Rate 20 BPM, HHP used 1051, ISI 1330, Used 500 gals 15% HCL, 5000# 80/100, 120,000# 20/40 Sand and 781,000 SCF Max Sand Conc. 6#/gal

Clay Sd, S L. Li Sd & B. Li Sd & Injur Sd &	Sh me Sh	0 3 1817 1842 1856 1934 1940 2000	3 1817 1842 1856 1934 1940 2000 5390	350'	stream damp damp	water	at	50'
LOG TOPS Big I Big I Weir Berea Warre U. Sp Speed Ballo	njun en beechley chley	1850 1924 2158 2358 3224 3296 3700 4190 4656	1924 2004 2270 2366 3278 3390 3788 4244 4810					
Bense		4814 5110	4944 5226					

Issued 3/23/89 Expure 3/23/91

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

	•				APPLICATIO	M			
1)	Well C	perator:_	CNG DE	VELOPHENT CO	mpany //	10, 8, 67	0		
2)	Operat	or's Well	Number:_	CNGD 361	9	/ / 3) E	Clevation: 1184		
4)	Well t	ype: (a)	Oil_/	or Ga					
		(b)	If Gas:	Productio	n/ Under	round Stora	Q@ /		
5)	Drone			Dee	₽/	Shall	0W_X/		
6)	Proposed Target Formation(s): Alexander								
7)	teet								
						, 502			
				epths:					
				pths:			***************************************		
10)	Does la	ınd contai	n coal se	eams tribus	tary to act	ive mine?	Yes/ No_x_/		
11)	Propose	d Well Wo	rk: Dril	l new well		q			
12)			~ h ~ T 1	PA BROWN STROOM			·		
TYPE					NG PROGRAM				
		1	PECIFICAT	TONS	FOOTAGE II	TERVALS	CEMENT		
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up		
Condu	<u> </u>						(cu. ft.)		
Fresh	Water	11-3/4	H-40	42	200	200	To surface		
Coal							To surface		
Intern	nediate	8-5/8	X-42	23	1550	1550	38CSR1811.2.2 & 38CSR181/.3		
Produc	tion	4-1/2	J-55	10.5	5375	5375	200-400 sks 38CSR18-11.1		
<u>ľubino</u>		1-1/2	CN-55	2.75	5275	5275	3330110-11.1		
iners							TERRORES		
ACKER	<u>.s</u> : Kir	nd					SUVEII		
MAR 07 1989 Depths set									
(PA)			or Divise	2 26 22 -		DIVISION	I OF OIL & GAS		
For Divison of Oil and Gas Use Only DEPARTMENT OF ENERGY Fee(s) paid; Well Work Permit H. Reclamation Fund									
The plat of the same of the sa									
Agent (Type)									

Page 1 of _ Form WW2-A (09/87) File Copy

G	EJ.	V	
MAR	07	1989	

1) Date: <u>March 1, 1989</u> 2) Operator's well number

CNGD 3619

API Well No: 47 - 017 - 3701 State - County - Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

3)

	•	NOTICE AND APPLICATION I	FOR A WELL WORK PERMIT
4)	Curtace (Owner(s) to be served:	5\ /=\ Cosl Operator.
=)		Lucy Harper	5) (a) Coal Operator:
	Address	511 Boca Ciega Point Blvd.	NameAddress
		St. Petersburg, FL 33708	Addicas
	(b) Name	Mary Harper Hamblett	(b) Coal Owner(s) with Declaration
	Address		
		Leesburg, VA 22075	Name Robert L. Holland, Jr. Agent Address Lewis Maxwell Heirs
	(c) Name	JEESDUIS VA ZZUIJ	105 High St., Box 425, West Union, WV 26456
	Address		Name State of Man Mining
			Name <u>State of West Virginia</u> Address State Auditor, Capitol Complex
	***************************************		Charleston, WV 25305
6)	Inspecto	Mike Underwood	(c) Coal Lessee with Declaration
•	Address	Route 2, Box 135	Name
	•	Salem, WV 26426	Address
	Telephone	e (304) - 782-1043	
	÷		
		TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
	Included	is the lease or leases or	r other continuing contract or
contr	acts by	which I hold the right to	extract oil and das OR
v	Included	is the information requir	red by Chapter 22B, Article 1,
Secti	on 8(d)	of the Code of West Virgin	nia (see nage 2)
	I certif	v that as required under (Chapter 22B of the West Virginia Code
I hav	e served	copies of this notice and	application, a location plat, and
accon	panying (documents pages 1 through	on the above named parties, by:
	Per	sonal Service (Affidavit a	attached)
		tified Mail (Postmarked po	
	Pub	lication (Notice of Public	ration attached)
	I have re	ead and understand Chapter	22B and 38 CSR 11-18, and I agree
to th	e terms a	and conditions of any per	mit issued under this application.
•	I certif	v under penalty of law tha	at I have personally examined and am
famil	iar with	the information submitted	on this application form and all
attac	hments.	and that based on my inqui	iry of those individuals immediately
respo	nsible f	or obtaining the informati	ion, I believe that the information
is tr	ue, accu:	rate, and complete.	on, I believe that the information
			cant penalties for submitting false
infor	mation.	including the possibility	of fine and imprisonment.
		Well Operator	CNS Development Company
		By:	The development company
	1		r Purchasing/Production Services
`		Address on Be	rk Ridge Center, P. O. Box 15746
			urgh PA 15244
,		Telephone (41	11rgn, PA 15244
Subsc	ribed and	d sworn before me this 1	
	v 1 ·	\sim	NOTARIAL SEAL
1	Theela	C. Therecky,	SHELA L. KIRICH, NOTARY PUBLIC
му со	mmission	expires <u> </u>	FINDLAY TOWNSHIP, ALLEGHENY COUNTY NOTARY Public
			Member, Pennsylvania Association of Notaries
			Maina Legisling Loop Acoust at the same