



WR-35 **ムローJUエータ**4 API # 47- 17-03734 F

Livironmental Protection AUG 0 4 1995 ivision of Environmental Protection Section of Oil and Gas

Office of Oil & Gas Well Operator's Report of Well Work

Farm name: HEASTER, CHARLES & PATSY Operator Well No.: CNGP 3622

LOCATION: Elevation: 1,232.00 Quadrangle: OXFORD

District: WEST UNION County: DODDRIDGE Latitude: 4150 Feet South of 39 Deg. 15Min. 0 Sec. Longitude 400 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: CNG PRODUCING COMPANY

ROUTE 2, BOX 698

BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD

07/27/94 ced: 05-10-95 Permit Issued: Well work Commenced:

Well work Completed: 05-15-95

Verbal Plugging

Permission granted on:____

Rotary Cable Rig
Total Depth (feet) Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)? Coal Depths (ft):

Casing	Used in	Cement Fill Up
Tubing	Drilling	Cu. Ft.
Size		
Re-Run 1 1,	2" Tubing	

OPEN FLOW DATA

Producing formation Speechley	Pay zone depth (ft) 3322-3441
Gas: Initial open flow MCF/	d Oil: Initial open flow N/A Bbl/d
Final open flow * 335 MCF/	d Final open flow N/A Bbl/d
Time of open flow between in	itial and final tests 4 Hours
Static rock Pressure 960 psig	(surface pressure) after 12 Hours
* Commingle with existing production	
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 Bb1/d
Time of open flow between in	itial and final testsHours
Static rock Pressurepsig	(surface pressure) afterHours

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: CNG PRODUCING COMPANY

By: Rodney J. Biggs, Production Manager, Appalachian Region Date: 07-28-95

05-10-95 Halliburton Perforated Speechley, 3322-3441, 31 holes.

05-11-95 Nowsco Water Fraced Speechley

Total Fluid 505 bbls.
Total Sand 35,000 lbs.
Total Acid 750 gal.
Avg. Rate 28 BPM
Avg. Press 1660
Broke Form 1600
Frac Gr. 69

05-15-95 T.I.L.



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

TVSICN OF 0: 2013 Well Operator's Report of Well Work

DEFARTMENT : LAGY FARM name: HEASTER, CHARLES & PATSY Operator Well No.: CNGD 3622

LOCATION:

Elevation: 1232.00

Quadrangle: OXFORD

District: WESTUNION

County: DODDRIDGE

Latitude: 4150 Feet South of 39 Deg. 15Min. 0 Sec. Longitude 400 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: CNG DEVELOPMENT CO., A DE

P. O. BOX 15746

PITTSBURGH, PA 15244-0000

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD Permit Issued: 07/03/89 Well work Commenced: 10/14/89 Well work Completed: 10/20/89 Verbal Plugging Permission granted on:

Rotary x Cable Rig

Total Depth (feet) 5447 Fresh water depths (ft) 50'

Salt water depths (ft) Is coal being mined in area (Y/N)? N Coal, Depths (ft): 1456 - 1470

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			
11 3/4	186	186	91 sks
8 5/8	1602	1602	353 sks
4 1/2	5448	5448	
1 1/2	5165	5165	
	minute example	a contact and comp comp comp comp comp	

OPEN FLOW DATA

Gas: Initial open flow MCF/d Final open flow 787 MCF/d Time of open flow between ini Static rock Pressure 800 psig	Bpl/q
Second producing formation Gas: Initial open flow MCF/d Final open flow MCF/d Time of open flow between init	Pay zone depth (ft) Oil: Initial open flow Bbl/d

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.	CNIC	Rodney J. Biggs, Manager
LUL.	CIAG	DEVELOPMENT COO, A DELAWARE CORP.
	Bv:	Man De -
	Date	November 20 190
		November 20, 1989

Perforated Alexander 5192 - 5198, 5 holes; 5210 - 5212, 3 holes; 5220 - 5223, 3 holes; 5226 - 5233, 6 holes; 5241 - 5244, 3 holes; 5255 - 5257, 2 holes; 5265 - 5267, 2 holes.

Foam Frac (70Q) Alexander - Break 1450, Avg TPSI 2834, Avg Rate 20 BPM, HHP used 1042, ISI 1590, Max Sand Conc. 6#/gal, used 500 gals 15% HCL, 5000# 80/100, 120,000# 20/40 Sar 845,508 SCFN₂

Sd, Sh & RR Sh. & Coal Sd & Sh L. Lime Shale B. Lime & Injun Sd & Sh Benson Sd & Sh	1874	1456 1470 1874 1894 1912 2069 4920 4935 5447	Coal 1456 - 1470 1/2" stream water @ 50' Damp at 345'
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LOG TOPS

Big Lime	1910	1984
Big Injun	1984	2064
Weir	2220	2330
Berea	2420	2428
Gordon	2628	2664
Warren	3283	3333
U. Speechley	3356	3450
Speechley	3640	3804
Balltown	4174	4284
Bradford Base	4574	120-7
Riley	4696	4866
Benson	4920	4958
Alexander	5170	5276



E'V'S'ON OF O! & OAG DEPARTMENT OF LAURGY

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

1) Well Ope	erator:	CNG DEVE	LOPMENT COMP.	ANY /O	110	(8) 525				
2) Operator	's Well	Number:_	CNGD 3622		3) El	evation: 1232				
4) Well typ	e: (a)	0i1_/	or Gas	<u> </u>						
	(b)	If Gas:		u_X/ Undergi	round Storag Shallo					
5) Proposed	l Target	Formation	n(s): Alexan	der						
6) Proposed	Proposed Total Depth: 5425 feet									
7) Approxim	nate fres	h water :	strata dept	hs: 450, 5	50					
8) Approxim	nate,salt	water do	epths:	none						
9) Approxim	mate coal	seam de	pths:	none						
10) Does lar	nd contai	n coal so	eams tribut	ary to acti	ive mine? Y	es/ No_x_/				
11) Proposed	Well Wo	rk: Dri	ll new well			~				
12)		CASII	NG AND TUBI	NG PROGRAM						
TYPE	S	PECIFICA'	TIONS	FOOTAGE IN	NTERVALS	CEMENT				
THE COUNTY OF TH	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)				
Conductor				·						
Fresh Water	11 3/4	H-40	42	200	200	To surface				
Coal						To surface				
Intermediate	8 5/8	X-42	23	1600	1600	38CSR1841.2.2 & 38CSR1841.3				
Production	4 1/2	J-55	10.5	5425	5425	200-400 sks 38CSR18-11.1				
Tubing	1 1/2	CN-55	2.75		5325					
Liners	LI .		Action in the second se		1 34 7 36 3	A BROVETA				
PACKERS : Kir	nd				NE					
Siz	es					JUN 1 5 1989 C				
		or Divis	on of Oil =	and Gas, Use		SION OF OIL & GAST RTMENT OF ENERGY				
30 457 75 Francis		JB1	Work Permit	()Ll	lamation Fun	<i>(_H</i>)				
Fee(s)		M	(-)U	Bluk	MMM.	54				
/ Plat	WW-9	Jan WW.	- 25 1921 6	Bond JUTIVA	(Type)	_ Agent				



		JUN 1 5 1989 W	!	
Page	1 of		1)	Date: June 8, 1989
	WW2-A	DIVISION OF OIL & GAS	2)	Operator's well number
(09/8	7)	DEPARTMENT OF ENERGY		CNGD 3622
File	Copy		3)	API Well No: 47 - <u>017</u> - <u>3734</u>
				State - County - Permit
				.
		STATE OF		
-		DEPARTMENT OF ENERG	Y, DIV	ISION OF OIL AND GAS
		NOTICE AND APPLICAT	ION FO	R A WELL WORK PERMIT
4)		wner(s) to be served		5) (a) Coal Operator:
	(a) Name	Charles P. & Patsy J. He		Name
	Address _	P. O. Box 112		Address
•		West Union, WV 26456		
	(b) Name	Michael P. & Keiko A. He	<u>aster</u>	(b) Coal Owner(s) with Declaration
	Address _	c/o P. O. Box 112		Name Robert L. Holland, Jr. Agent
	***************************************	West Union, WV 26456		Address 105 High St., P. O. Box 425
		Clarence B. & Dawn E. Co	nner	West Union, WV 26456
				Name
		West Union, WV 26456		Address
6)	Inspector	Mike Underwood		(c) Coal Lessee with Declaration
	Address _	Route 2, Box 135		Name
		Salem, WV 26426 e (304)- 782-1043		Address
	Telebuoue	e (304) – <u>782–1043</u>		
		TO THE PERSON(S) NAM	ED ABO	VE TAKE NOTICE THAT:
	Included	is the lease or lease	es or	other continuing contract or
contr	acts by v	which I hold the right	t to e	xtract oil and gas <u>OR</u>
X	included	is the information re	equire	d by Chapter 22B, Article 1,
Secti	on 8(a) c	of the Code of West V	irgini	a (see page 2)
T 1	r certity	that as required und	ier Cn	apter 22B of the West Virginia Code
I nav	e served	copies or this notice	e and	application, a location plat, and
accon	baulind c	ocuments pages 1 thro	ough _	on the above named parties, by:
	Pers	sonal Service (Affida	vit at	tached)
	x Cert	cified Mail (Postmark	ed pos	tal receipt attached)
	Publ	lication (Notice of P	ublica	tion attached)
	T			
d d- 1-	I have re	ead and understand Cha	apter .	22B and 38 CSR 11-18, and I agree
LO L1.	le cerms a	ind conditions or any	permi	t issued under this application.
	r certify	under penalty of lav	w that	I have personally examined and am
ramir	lar with	the information subm	itted	on this application form and all
attac	nments, a	and that based on my	inquir	y of those individuals immediately
respo	nsible ro	or obtaining the into:	rmatio	n, I believe that the information
is tr		cate, and complete.		
	1 am awai	ce that there are sign	nifica	nt penalties for submitting false
incor	mation, i	including the possibi.	Tith o	f fine and imprisonment.
				CNG Development Company
		Ву:		
		Its: / s	upervis	or Purchasing/Production Services
				Ridge Center, P. O. Box 15746
		me la a base	ittsbur	gh, PA 15244
Sinhe-	ribod ind	Telephone		(412) 787-4117
_		sworn before me this	<u> </u>	day of June , 1989
Bari	MANA Y	Randall		DADDADA I DANDALI MOTADVOLIDIO
-	mmission	OVDITOS		FINDLAY TOWNSHIP, ALLECHEMY COUNTY NOTATY PUDITC
ny cc	mmii 5510N	exhites		MY COMMISSION EXPIRES APRIL 5, 1993

Member, Pennsylvania Association of Notaries -

O17-3734-Frac Secret 07/27/94 Frage of O1/27/96 IN OF OIL AND GAS 07/27/96 ICATION

FORM	WW-2B	1 04
	111	1 44

STATE OF WEST VIRGINIA

Pe	TCE WY	MENI OF	CNEC	(GI, DI	<u> </u>	OF OIL	ANU	م ن
Office of 'Ji'	4 A	WELL	WORK	PERMIT	APPLIC	CATION		
Palithone				07.				

1	Chiarce a.	77	16			
0. 4.	Well Operator:_			(8)	526	
	Operator's Well	Number: CNGP	3622W	Million with the second section of the section of th	3) Elevati	on: 1232'
	Well type: (a)	0il_/ or	Gas_X	.1		
	(b)	If Gas: Pro	duction_X Deep	_	nd Storage/ Shallow/	
5)	Proposed Target	Formation(s)	¢			
6)	Proposed Total	Depth: 3322-3	442	feet		
7)	Approximate fres	sh water stra	ta depths	* *		
8)	Approximate sal	water depth	s:			
9)	Approximate coal	l seam depths	**************************************			
10)	Does land conta	in coal seams	tributar	y to active	mine? Yes	/ No/
11)	Proposed Well We	•				ed zones.
12)			ND TUBING	le with existing PROGRAM	production.	
TYPE	1	SPECIFICATION	s F	OOTAGE INTE	RVALS	CEMENT

TYPE	S	PECIFICAT	CIONS	FOOTAGE I	CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4			186	186	91 sks
Fresh Water				GND NO		80 1
Coal				mullel Kee	409	nula
Intermediate	8 5/8		ge	. 1602	1602	353 sks
Production	4 1/2			5448	5448	550 sks
Tubing	1 1/2			5165	5165	40 40 40
Liners						

PACKERS :	Kind Sizes	enitario e e e se e e e e e e e e e e e e e e e	THE BOOK OF THE PARTY OF THE PA								 _
0/	Depths	set									
18/2	The second secon	For	Divison	o£	Oil	and	Gas	Use	Only		

	U				000 01127		
Consess	Fee(s) pai	.d:	Well Work	Permit	Reclamation Fund		MPCP
_	Plat	WW-9	WW-2B	Bond			Agent

Page	1 of	A second second	1)	Date:	10-29-94
	WW2-A	•	2)	Operator	's well number
(10-	91)	Electric de la constante de la		CNGF	9 3622W
		JL 1 1 94	3)	API Well	No: 47 - 17 - 03734W
		ermitu ng			State - County - Permit
		fice of Oil & ConSTATI			A.
	DIVITOI	ON OF PRICEDOMENT	R OF MES	I. ATKGINTA	A FICE OF OIL AND GAS
	DIATOT	ON OF ENVIRONMENT	AL PROII	ECITOR, OF	rice of oil and gas
		NOTICE AND APPLI	CATION E	FOR A WELL	WORK PERMIT
4)	Surface O	wner(s) to be ser	ved:	5) (a) C	oal Operator:
* /		Charles P. & Patsy Heast			
		P. O. Box 112		Address	
		West Union, WV 26456			
		Michael P. & Keiko A. He		(b) Coal	Owner(s) with Declaration
	Address _	c/o P. O. Box 112		Name	Robert L. Holland, Jr., Agent
		West Union, WV 26456		Address	105 High St., P. O. Box 425
		Clarence B. & Dawn E. Co	onner		West Union, WV 26456
	Address _	104 James St.		Name	
		West Union, WV 26456		Address	
6)	Thanastan			$\overline{(a)}$ Coal	Lessee with Declaration
0)		Mike Underwood Rt. 2, Box 135			
		Salem, WV 26426		Address	
	Telephone	e (304) - 782-1043			
		702 7043			
		TO THE PERSON(S)	NAMED A	BOVE TAKE	NOTICE THAT:
					ntinuing contract or
		hich I hold the r			
X					pter 22B, Article 1,
Sect		of the Code of Wes			
T ha					B of the West Virginia Code
					ion, a location plat, and le above named parties, by:
accc		sonal Service (Aff	_		le above named parties, by.
		ified Mail (Postm			int attached)
		lication (Notice of			
			/		
	I have re	ead and understand	d Chapte	r 22B and	38 CSR 11-18, and I agree
to t					under this application.
					personally examined and am
fami					application form and all
atta	chments, a	and that based on	my inqu	iry of tho	se individuals immediately
resp	onsible fo	or obtaining the i	informat	ion, I bel	ieve that the information
is t		cate, and complete			
					ties for submitting false
info	rmation, i	ncluding the poss			
100					ing Company 2 1 2 2
} ELL	AP 707-0		odney J. Big		y voc 12gg
		D. COLTON LCS:	Designated	<u> Agent - Distri</u>	ct Manager, Production
	SHEWNST	BOX 861D Addres ON, WV 28431 Dispires Sept. 28, 2008 D		<u>Box 698, Cros</u> port, WV 26330	swind Corp. Park
				304) 623-8840	
Subs	cribed and	d sworn before me			Qure , 1994
_					
<u> </u>	Janey D			N.	ancy D. Colton Notary Public
MA C	commission	expires	3		