

IV-35 (Rev 8-81)

inte of West Birginia Bepartment of Mines DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
WELL OPERATOR'S REPORT

Date December 1, 1986
Operator's Well No. <u>CNGD WN 2683</u>
Farm Barker
API No. 47 - 095 - 1161

OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergro	n/ Waste und Storage	e Disposal	L/ D/ Sha	llow <u>x</u> /)
LOCATION: Elevation: 1040 Watershed	Josephs For	k		
District: Meade County Tyle				ooro
COMPANY CNG Development Company				
ADDRESS P. O. Box 15746 Pittsburgh: PA 15244	Casing	Used in	Tof+	Cement
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling		fill up Cu. ft.
ADDRESS Rt. 2 Box 698 Bridgeport, WV 26330	Size	DITTING	TIL METT	Cu. IC.
SURFACE OWNER R. Lee Barker	20-16			
ADDRESS South Street Harrisville, WV 26362	Cond.			
MINERAL RIGHTS OWNER R. Lee Barker	13-10"			
ADDRESS South Street Harrisville, WV 26362	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1224	1224	To Surf.
Robert Lowther ADDRESS General Delivery	7			
PERMIT ISSUED October 6, 1986	5 1/2			
DRILLING COMMENCED Nov. 2, 1986	4 1/2	4999	4999	140 sks
DRILLING COMPLETED Nov. 7. 1986	3	·		
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 1-½	4883	4883	
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REMORKING. VERBAL PERMISSION OBTAINED ON	used			
GEOLOGICAL TARGET FORMATION Benson		Dend	h 5250	feet
Depth of completed well 5120 feet				
Water strata depth: Fresh 50 feet;				
Coal seam depths:				area? No
OPEN FLOW DATA				
Producing formation Benson	Pay	zone dept	h4895-	4903 feet
Gas: Initial open flow Mcf/d	Oil. This	rial onen	f1~	Ph1 //3
Final open flow 231 Mcf/d	Fin	al open fi	LOW	Bbl/d
Time of open flow between init	ial and fir	mal tests	_4ho	urs
Static rock pressure 760 psig(surface	e measurem	ent) after	24 hou	rs shut in
(If applicable due to multiple completion	)			
Second producing formation	Pay	zone dept	.h	feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressurepsig(surface	measureme	nt) after	hou	rs shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated Benson 4895 - 4903, 24 holes, .39 HSC

Breakdown 1600, Ave HHP 1900, Ave Rate 20, Ave Pres. 2750, Max Tr Pres. 2920, Total Sand 6,000# 80/100, 83,000# 20/40, Max. Conc. 7#/gal, Total Acid 500 gal, Total Fluid 332 bbl (clear), SL Fluid 190 bbl (clear), ISIP 1100, 5 min 1000, Total Nit. 468,946 CF

## WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
KB - GL	0	10	1/2" stream @ 50'
Soil, Sand, Shale & RR	10	1855	Damp @ 1300'
B. Lime & Injun	1855	2000	Damp @ 1360'
SAnd, Shale & RR	2000	3970	Damp @ 1510'
Balltown	3970	4010	√0il 0der @ 1520'
Sand & Shale	4010	5120	Soap Hole @ 1545'
LOG TOPS			
Big Lime	1884	1987	
Big Injun	1987	2086	
Weir	2346	2396	
Berea	2506	2510	
4th Sand	2886	2900	
Warren	3444	3480	
Bradford	4514	4592	
Riley?	4896	4904	
			·
			DEC 1 8 1985  DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
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(Attach separate sheets as necessary)

CNG I	DEVELOPMENT COMPANY	
Well	l Operator	
_		
By:	Vary X Milolan	
Date:	December 1, 1986	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and, encountered in the drilling of a well."



1)	Date:	Sept.	10,		13.86
2)	Орегаю	or's		,	

2) Operator's Well No. 2683

3) API Well No. 47-095-1161
State County

Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL DEP	RTMENT OF ENERGY, OIL AND GAS DIVISION
FPARTMENT OF LIVE	ARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELLII	FE: A C									
	<b>B</b> (1	If "Gas",	Productio	n	<u> </u>	_/ Underground st	orage	_/ Deep	/ Shallow _	_X/)
5) LOCATIO	N: Ele	evation: _	104	0	_	Watershed:	Josephs For	k		
		strict:			4 13	County:	Tyler	Quadrangle: _	Pennsboro	538
6) WELL OP								AGENT Gary N		
Address						ox 15746		Crosswind_		
0) 011 4 6 4		ttsbur	•		2244			ox 698, Brid	geport, W	26330
8) OIL & GA		bert I				9	) DRILLING CO			
Name		eneral						Sam Jack D		).
Address		ddlebo			26140	<del></del>	Address	P.O. Box 4		
					26149			Buckhannon		1
10) PROPOSE	D WELL	WORK:			_/ Drill			/ Stimulate	X/	
						/ Perfora	te new formation_	/		
						well (specify)				
11) GEOLOGI						1 435			<del></del>	
12) Estima	•	•	•		5350	feet				
13) Appro		-					-		•	
14) Appro		•				Is coa	l being mined in the	area? Yes	/ No	
15) CASING A	AND TUBI	ING PRO	GRAM C	p.CH.						
CASING OR TUBING TYPE		SPEC	IFICATION	S	11	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKE	RS
TUBING TIPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor									Kinds	
Fresh water	11-3/4	H-40	42	Х		40 1	40	To surface	By rule 1	<del>-</del> .
Coal						1		Ju surrace	Sizes	3.03
Intermediate	8-5/8	X-42	23	х		1525/220	1555 /220	To surface	By rule 1	
Production	4-1/2		10.5	Х		5350	5350	200 - 400	Depths set	5.05
Tubing	1-1/2		2.75	Х		3330		200 400	By rule 1	5 01
Linc. 3						,			Perforations:	J.UI
									Тор	Bottom
									l lop	Bottom
									<b> </b>	
	4	·	·		1	<u>-</u>	<u>\</u>	<u> </u>	-ti	
	***************************************					OFFICE USE O	NI V			<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>
						DRILLING PER				
	/ 7 6	.05 114			•	MILLING I LI	VIVII I			
Permit number_	4/-0	95-116	<u> </u>					Octo	ber 6	19 86
								Da		
This permit cove	ring the wo	eli operato	r and wel	l locatio	on shown	below is evidence of	permission granted	d to drill in accordar	nce with the perti	inent legal re-
o. 8) Prior to the	e construct	ion of roa	ds. locatic	nerent a	nits for an	reverse nereor Notif	ication must be give In addition, the we	en to the District Oil Il operator or his cor	and Gas Inspect	or, (Refer to
district oil and ga	as inspecto	r 24 hours	before a	tual pe	rmitted wo	ork has commenced	.) ~ ,	operator of mis cor	inactor shan not	ny the proper
The permitted we	ork is as de	scribed in	the Notic	e and A	pplication	, plat, and reclamat	ion plan, subject to	any modifications a	and conditions en	ecified on the
everse hereof.		ber 6,			•				a conditions sp	cerned on the
Permit expires _	0000	ber o,	1900			unless well v	vork is commenced p	prior to that date and	prosecuted with	due diligence.
			<del></del>				1 1			
Bond:	Agent	. P	1 2 1	Casi	ng   F	ee WRCP	V SSE V	\. 1		
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LL	fr.	F 1		<u> </u>	<i>/ / / / / /</i>	370 1	LCDL	$A \cap A$	1-	*
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							Ash.	1100	and the	
NOTE: Keep or	ne copy of	this permi	it posted a	at the di	rilling loca	tion. Di:	tor, Divi	sid of Oil	and Gas	
							// ,	7 011		File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.