

IV-35 (Rev 8-81) MAR 06 1985



State of Mest Airginia

OIL & GAS DIVISION DEPT. OF MINES

Bepartment of Mines
William Gas Bivision

Date February 21-85								
Operator's								
Well No. CNGD WN 1506								
Farm Rogers								
API No. 47 - 107 -	1345							
Re 1 (20 - 47 _ 107	- 1343							

WELL OPERATOR'S REPORT

OF

DRILLING.	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE
DECLIMITION	FIRSCION	,				

WEIL TYPE: Oil x / Gas / Liquid Injection (If "Gas," Production / Underground	/ Wastu and Storage	e Disposal e/ Deep	L/ / Shal	llow/)
LOCATION: Elevation: 1035.3 Watershed	Laurel For	k		· · · · · · · · · · · · · · · · · · ·
District: Walker County Woo	d	Quadrangle	<u> Willow</u>	Island WV-01
		•		
COMPANY CNG Development Company				
ADDRESS P. 0. Box 15746 Pittoburgh, PA 15244	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330	Size			
SURFACE OWNER Edna L. Newland Rogers	20-16 Cond.			
ADDRESS Rt. 3 Box 228 Parkersburg, WV 26101	123+73X4	335	335	To Surf.
MINERAL RIGHTS OWNER Edna Rogers	9 5/8	333	333	10 5011.
Rt. 3 Box 228 ADDRESS Parkersburg, WV 26101	8 5/8	1005	1025	T- C
OTT, AND GAS INSPECTOR FOR THIS WORK		1035	1035	To Surf.
Glen Robinson ADDRESS Mineralwells. WV 26150	7	-		
PERMIT ISSUED 1-3-85			2//7	100 sk.Poz 290 sk.Thi
DRILLING COMMENCED 2-1-85	4 1/2	3447	3447	290 sk Thi
DRILLING COMPLETED 2-7-85	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROCRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
CN	<u> </u>		<u>.</u>	;
GEOLOGICAL TARGET FORMATION Devonian Shale				feet
Depth of completed well 3455 feet				
Water strata depth: Fresh 130 feet;	Salt	feet	•	
Coal seam depths: 375 - 380 / 390 - 395	Is coal	being min	ed in the	area? <u>No</u>
OPEN FLOW DATA			<u></u>	
Producing formation Devonian Shale	Pa	y zone dep	oth 1830-1	786 561 feet
Gas: Initial open flow Mcf/d	Oil: In	itial oper	flow	Bbl/d
Final open flow(est.) (75) Mcf/d				
Time of open flow between init				
Static rock pressure (est.)600psig(surface				
(If applicable due to multiple completion				
Second producing formation		y zone dep	oth	feet
Gas: Initial open flow Mcf/d				
		-		
		nal open :	flow	Bbl/d
Final open flow Mcf/d Time of open flow between init	Oil: Fi			

4.1

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Perfco Perf. Devonian Shale 3231-2786; 22 holes; (.39) H.S.C. Select Fire

Huran [2651-2324; 23 holes (.39) H.S.C. Select Fire

Halliburton Nit. Frac Devonian Shale - Break 2800, Avg. TPSI 2850, Rate 84,000 SCF/min N2 ISI 1600, 5 min 1530, used 500 gals 15% HCL + 800,000 SCFN2

2nd Stage - Break 3080, Avg. TPSI 3100, Rate 83,000 SCF/min N2

ISI 1650, 5 min 1400, used 500 gals 15% HCL + 800,000 SCFN2

3rd Stage - Break 2900, Avg. TPSI 2850, Rate 80,000 SCF/min N2

ISI 1575, 3 min 1400, used 500 gals 15% HCL + 800,000 SCFN₂

WELL LOG

FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay	•	0	5	Hole Wet @ 130'
Sand & Shale		5	375	
Coal		375	380	
Shale		380	390	
Coal		390	395	·
Sand & Shale	, in the second companies and the second	395	780	
Lime & Shale	konstruent om et etter konstetten i in	780	875	
Sand & Shale	i de la companie de l	875	3455 🗸	
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	A STATE OF THE STA			
LOG TOPS	The second secon	•	·	
Base - Big Injun	اران المنظم المنظم المنظم المنظم المنظ		1036	
Berea	e de la companione de l	1404	1408	
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San Agent States				
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	ng phawa i	l.	1	

Contract Language (Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY	
Well Operator	
BV: Alex AMelte	<i>*</i>
Date: 2-21-85	
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Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations including

FORM IV-200 FILE COPY (Obverse) 7-83	The second
80 - 1984	•



1)	Date: Nov	ember	20,	, 19	84
2)	Operator's Well No	1506			
3)	API Well No.	47 –	107 -	1345	
		State	Cour	nty	Permit

File

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

	OIL & GA			Al	PPLICA	TION FOR A WELL	WORK PERMIT			
DE 4) WELL TY	PT.	F Mi	NES	3 -					•	
4) WELLII						/ Underground st		/ D	/ Ch-11	
5) LOCATIO		vation:						/ Deep rk	_/ Shallow _	/)
5) LUCATIO			11-71.				11 1		illow Isla	nd WV-OH
6) WELL OF		trict:			t Com	County:				
	s c/o Pa							AGENT Mr. G		
Addres		ittsbu				13740	Address		d Corporat	
					3244	10110		Box 698, Brid	geport, wy	26330
8) OIL & G	A 7	P. Rob	BE NOTIF	FIED		9) DRILLING CO		C	
Name				Dla	acant	Estate		n Jack Drilli		***************************************
Addre		neralw				LState	Address	P.O. Box 48		
	-							Buckhannon,		
10) PROPOS	ED WELL '	WORK:			_/ Drill			/ StimulateX	/	
			-			n/ Perfora	e new formation.	/		
						n well (specify)				
11) GEOLOG				,	3450	Devonian Shal	е			
	ated depth o			1 10 1		feet				
13) A ppr	oximate trat	a depths:	Fresh,	4	3-5	feet; salt,_		feet.		
14) Appr	oximate coa	l seam dep	ths:			Is coa	being mined in the	area? Yes	/ No	<u>X</u>
15) CASING	AND TUBI	NG PRO	GRAM							
CASING OR	I	SPEC	IFICATIONS	6	1	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKEI	RS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	16					20-30	_		Kinds	
Fresh water	11 3/	4 H-40	42	x		250 315	250 315	To Surface	By rule 1	5.05
Coal						7,5			Sizes	
Intermediate	8 5/	8 X-42	23	Х		1020	1020	To Surface		
Production		2 J-55				3450	3450	200-400	Depths set	
Tubing		8 CW-5							By rule 1	5.01
Liners									Perforations:	
									Тор	Bottom
			•	•		<u> </u>		-M	B	
		· · · · · · · · · · · · · · · · · · ·				OFFICE USE O	NLY	* ******* = ** *** ** *** *** *** *** *		
						DRILLING PER		· · · · · · · · · · · · · · · · · · ·		
,								-	•	. 05
Permit number		47-10	<u>7-1345</u>	<u> </u>		-	-		uary 3,	19 85
								Dat		
								ed to drill in accordan		
								given to the District O ell operator or his con		
						work has commenced		• operator or • • • ·	indicate sinds from	ry the proper
The permitted	work is as d	escribed in	the Notic	e and A	Application	on plat and reclama	tion plan subject t	o any modifications a	nd conditions spe	rified on the
reverse hereof.					-pp	on, plat, and reclama	non plan, subject t	any mountourous a	na contantions spe	cinca on the
Permit expires	Jan	uary 3	<u>, 1987</u>	'		unless well	work is commenced	prior to that date and	prosecuted with	lue diligence.
										<u>-</u>
Bond:	Ager	,,, <u> </u>	Plat:	Casi	T	Eee				
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(人)		141/	nl	[[]]	41	980 1	$V \downarrow$	$z \sim z $		
						/	Urg	arit I. K	asse	
						·	Adm	inistrator, Office of C	oil and Gas	
NOTE: Veen	one conv o	f this marn	it posted	at the d	leilling la	antion.	/T			

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