





IV-35 (Rev 8-81)



State of Mest Birginia

Bepartment of Mines Gil und Gas Division

Date January 26.]	L988
Operator's	
Well No. 2859	
Farm J. A. Gain	
API No. 47 - 017	3 620

WELL OPERATOR'S REPORT

DIVISION OF OIL & GAS

DEPARTMENT OF ENEROPILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil/ Gas_ X / Liquid Injection (If "Gas," Production X / Undergo	ion/ Wast	re Disposa ge/ Deep	L/ / Sha	llow_x_/)
LOCATION: Elevation: 998 Watershed	Left Fork	Arnold Cree	-k	
District: West Union County Doc				
Contractive Contra				
COMPANY CNG Development Company				
ADDRESS P. 0. Box 15746 Pittsburgh, PA 15244	Caşing	Used in	Left	Cement
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS Rt. 2 Box 698 Bridgeport, WV 26330	Size			
SURFACE OWNER James A. Gain	20-16			
ADDRESS Rt. 1, Box 54 West Union. WV 26426	Cond.	0.1.5		
MINERAL RIGHTS OWNER James A. Gain	13-10"	215	215	To Surf.
ADDRESS Rt. 1, Box 54 West Union WW 26/26	9 5/8	1.00		
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1430	1430	To Surf.
Mike Underwood ADDRESS Rt. 2, Box 135 Salem WV 26426	7			
PERMIT ISSUED December 16. 1987	5 1/2			
DRILLING COMMENCED December 28, 1987	4 1/2	5173	5173	200 sks
DRILLING COMPLETED January 6, 1988	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	X	4962	4962	
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			EN CONTROL OF THE CON
REWORKING. VERBAL PERMISSION OBTAINED ON_	used			
GEOLOGICAL TARGET FORMATION Alexander		Dep	th 5250	feet
Depth of completed wellfeet	Rotary	/ Cable	e T∞ls_	
Water strata depth: Fresh 400 feet	; Salt	feet		
Coal seam depths:			ed in the	area? No
OPEN FLOW DATA				- Contribution (no. 1997/Plastor)
Producing formation Alexander	Pay	zone dep	th 4999-5	5069 fee t
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	Bbl/d
Final open flow 855 Mcf/d	Fir	nal open f	low	Bb1/d
Time of open flow between in				
Static rock pressure 1125 psig(surf	ace measure	ment) afte	r ₂₄ hou	urs shut in
(If applicable due to multiple completi	qn)			
Second producing formation	Pay	y zone dep	th	feet
Gas: Initial open flow Mcf/d	Oil: In:	itial open	flow	Bbl/c
Final open flow Mcf/d				
Time of open flow between in				
Static rock pressurepsig(surfa				
	FEB 8 198			

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

Perforated Alexander 4999 - 5069, 32 holes, .39

Nowsco Foam Frac - Breakdown 2150, Ave HHP 460, Ave Rate 6.8 BPM, Ave Pr 2760,

Max. Tr Pr 3090, 700 gal 15% acid, 120,000# Sand, Max Conc. 12, Total Fluid 400 bbl,

SL Fluid 239 bbl, ISIP 1660, 5 min SIP 1560, Total Nit. 848,000

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
Clay Sand, Shale & RR L. Lime Shale B. Lime & Injun Sand & Shale	0 3 1690 1721 1734 1870	3 1690 1721 1734 1870 5269	1/2" stream water 50' 1/2" stream water @ 400'
LOG TOPS			
Big Lime Big Injun Weir Berea Gordon Gp. Warren U. Speechley Speechley Bradford Riley Benson Alexander	1732 1802 1980 2234 2450 3098 3168 3660 4292 4582 4734 4994	1802 1884 2143 2245 2526 3151 3266 3734 4337 4590 4793 5070	DECETY FULL FEB 01 1988 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
			DEPARTMENT OF LIVERON

(Attach separate sheets as necessary)

CNG DI	EVELOPMENT COMPANY	
Well	Opérator ///	
	1- 1- V4 - 14/1	
By:	Tary Holdes	
29 _ L		
paœ:	January 26, 1988	

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 enal, encountered in the drilling of a well."

12/16/8)

FORM WW-2B

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

			METIT MO	KK PERMILI	AFFUI CALLUI		075
1)	Well Ope	rator:	С	NG Developme	nt Company /	0110 8	6/0
2)	Operator	's Well N	Number: 2	859		3) Ele	vation: 998
				or Gas			
		(b) 1	If Gas:	Productior Deep	n_X/ Undergr D/		<u> </u>
5)	Proposed	Target E	Formation	(s): <u>Al</u>	exander <u>43</u>	,9	
6)	-			250			,
7)	Approxim	ate fresh	n water s	trata dept	hs: 37,76	70, 270; Ha	2
8)	Approxim	ate salt	water de	pths: Sound	R. 1075-1135	÷	
9)	Approxim	ate coal	seam dep 2905, 306	ths: 2, 31017, 34	1390?	50-54, 45-46	; 270'-273', 530;
10)	Does lan	d contair	n coal se	ams tribut	ary to act:	ive mine? Ye	ss/ NO_ <u>x</u> _/
11)	Proposed	Well Wor	rk:				
12)			CASIN	G AND TUB	NG PROGRAM		
TYPE		SI	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
e de la composito de la compos		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ıctor						
Fresi	n Water	11-3/4	H-40	42	200	200	To surface
Coal						138CSR16	111.3
Inter	rmediate	8-5/8	X-42	23	1425	1425	To surface
Produ	uction	4-1/2	J-55	10.5	5250	5250 38CSR18	200 - 400 Sks
Tubia	ng	1-1/2	CN-55	2.75	5150	5150	
Line	rs						CEIVI
PACKI							NOV 3 0 1987
		ths set				DI	VISION OF OIL & C
10664		F	N/N/		and Gas Use	Only DEF	PARTMENT OF EN
	Fee(s) p	aid:		Work Permi -2B 1	t Mr Rec Bond 50 30	lamation Fundament	d WPCP Agen
The I	Plat 1	TI WW-3	#	((Type)	

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(09/87)	
File Copy	DIVISION OF OIL & GAS

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Date	e: <u> </u>	ctober	30,	1987			
Ope	rator	's we	ll n	umbe	r	 	
***************************************		IGD 28					
API	Well	No:	47		017	 3620	******
		Sta	te -	Cou	nty	 Permit	

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

1)

3)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Const. France Co.	ži
7)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name <u>James A. Gain</u>	Name
	Address Rt. 1, Box 54	Address
	West Union, WV 26426	
	(b) Name	(b) Copl. Ormon(s) with D
	Address	(b) Coal Owner(s) with Declaration
		Name <u>See attached sheet</u>
	(C) Name	Address
	(c) Name	
N 4		Name
		Address
<i>C</i>)	The same and	
6)	Inspector <u>Mike Underwood</u>	(c) Coal Lessee with Declaration
	Address Route 2. Box 135	Name .
	Salem. WV 26426	Name
	Telephone (304)- 782-1043	Address
	Art and VIII	
	TO THE DEDCOMES ASARD AS	
	TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
	- incruded is the intormation requir	and has all and a second
Secti	ion 8(d) of the Code of West Virgin	ed by Chapter 22B, Article 1,
	I certify that as required	lla (see page 2)
T has	's servery char as required under o	hapter 22B of the West Virginia Code
I Hav		
accon	Lenny and amounts bades I filloudy	On the above named
	X Certified Mail (Postmarked po	ctached)
	Publication (Notice of Dubli-	star receipt attached)
	Publication (Notice of Public	ation attached)
	T because of	one day the top the day the sin day the col the saw one day the sin day and the saw one
	I have read and understand Chapter	22B and 38 CSR 11-18 and I agree
to th		
famil	idr with the information submitted	and am
attac	iar with the information submitted hments, and that based on my inqui-	ry of those individuals immediately
_	ODCGINING LIE INICIINALI	on, I believe that the information
is ir	ue, accurate, and complete.	
	I am aware that there are signification, including the possibility.	ant penalties for submitting for
infor	mation, including the possibility	of fine and impute
	Well Operator,	CMC Design Imprisonment.
	By:	CNG Development Company
		····
	Its:	Supervisor, Well Programs
	Address	One Park Ridge Center
		P.O. Box 15746 Pittsburgh, PA 15244
	Telephone	(412) 787-4117
Subsc	ribed and sworn before me this 30	
		inday of October , 1987
	$(0, 1) \rightarrow 1$	1
fy cc:	mississ W. C. C. IV	Notary Public
ry COI	nmission expires <u>December 19, 198</u>	3
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