

__ ADDRESS_

PITTSBURGH, P

15219

CROSSWIND CORPORATE PARK

BRIDGEPORT, W. V. 26330

SEP 0 4 1985

IV-35 (Rev 8-81)



State of West Birginia

Bepartment of Mines Gil und Gas Zivision

Operator's										
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_										
_										

WELL OPERATOR'S REPORT

of

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1162 Watershed	ound Storag			egislanovenic (Stragetor
District: Southwest County Dod				
COMPANY CNG Development Company				
ADDRESS 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 26330	Size			
SURFACE OWNER Beatrice Schwartzman	20-16	more property and the control of the		uicetespeaning and a second
ADDRESS 2520-30th Street. NW Washington. DC 20008	Cond.			
MINERAL RIGHTS OWNER W. B. Maxwell	13-10"			
ADDRESS 37 W. 10th St., New York, NY 10011	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1253	1253	To Surf.
Mike Underwood ADDRESS Rt. 2, Box 114 Salem. WV 26426	7			
	5 1/2			
PERMIT ISSUED July 3, 1985	4 1/2	5344	5344	550 sks
DRILLING COMMENCED July 18, 1985	3			
DRILLING COMPLETED July 26, 1985	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
CN				
GEOLOGICAL TARGET FORMATION Alexander		De	oth 537	5 feet
Depth of completed well 5375 feet	Rotary	x/ Cab	le Tools_	
Water strata depth: Freshfeet	; Salt	fee	t	
Coal seam depths: 506 - 510				ne area? No
COESI EV CVI DAMA	·		5103	- 5144
OPEN FLOW DATA Alexander Benson & Riley Producing formation Speechley & Warre	P3	da	4666	- 4840 - 3394 Feet
Gas: Initial open flow Mcf/d				
Final open flow 474 Mcf/d				
Time of open flow between in				
Static rock pressure 950 psig(surf		ement) ait	er 24 h	ours shut in
(If applicable due to multiple complete				_
Second producing formation				
Gas: Initial open flowMcf/c				
Final open flow Mcf/	d Oil: B	inal open	flow	Bbl/d
Time of open flow between i	nitial and	final test	:s	hours

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

Perfco ran Corrlog & Perf. Alexander 5103, 5105, 5109, 5111, 5112, 5120, 5122, 5124,

5133, 5134, 5143, 5144, with 2-1/8 Kleen Jet Strip, .39 holes

Halliburton Foam Frac (75Q) Alexander - Break 2500, Avg TPSI 2420, Avg Rate 20 BPM,

ISI 1700. used 500 gals 15% FE Acid & 65,000# 20/40 Sand & 603,000 SCFN2

Perfco Perforated Benson & Riley 4837 - 4840, 6 holes and 4666 - 4671, 6 holes, .39 HSC Halliburton Foam Frac (75Q) Benson & Riley - Break 1700, Avg TPSI 2594, Avg Rate 20 BPM, ISI 1010, used 750 gals 15% FE Acid & 30,000# 20/40 Sand & 303,000 SCFN2

Perfco Perforated Speechley & Warren 3390 - 3394, 6 holes, 3280 - 3284, 6 holes, .39 HSC Halliburton Foam Frac (75Q) Speechley & Warren - Break 3050, Avg TPSI 2622, Avg Rate 20 BPN ISI 1460, used 750 gals 15% FE Acid & 45,000# 20/40 Sand & 432,000 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
Fill, Shale, Sand & RR	0	506	Coal 506 - 510
Coal	506	510	
Sand & Shale	510	1870	
Big Lime	1870	1990	
Sand & Shale	1990	5375	
from ready 8-raylog:		TD. AL	ka nahi
ha Louis Zuga			
Warken 3390			
U. Speechley 3640			
hus Speedonley 2740			
Ballious - Brism .			
Abaran Togo		•	
Alexander . 5290			

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY	
Well Operator	
Was Mill.	
By: Wall Miller	
Date: August 13, 1985	

FORM IV-2(B) (Obverse) 7-83	FI	LE	C Q	PV	E
- GG JUN	V	4		1995	



1)	Date:	June	5;			19 85
2)	Operator's Well No	1	917			
•		47	_ /	777	2///	

3) API Well No. 47
State County Permit

CIL & GAS DIVISION DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4)	WELL TY	PE: A (Oil		as	<u>x</u> /					
		В (If "Gas",	Production	on	X	_/ Underground	i storage	/ Deep	. Shellow	. 🗴 ^
5)	LOCATIO		CYGETOIT.				Waterched.	Right	Fork	/ Sitatiow	
		Di	strict:	West	Uni	on	County	Doddridg		Oxford	
6)	WELL OF	ERATOR	UNG	Develo	pmen	t Compa	iny (142)		DAGENT _ Gary		
	Addres	s c/ <u>o F</u>	aul W.	. Garr	ett,	P.O. E	Box 15746	Address		d Corpora	
		P				15244	10110	Rt. 2	, Box 698, Br	idgenort	MM 26330
8)	OIL & GA	S INSPEC	TOR TO	BE NOT	FIED			9) DRILLING (CONTRACTOR		
	Name	·	Mike			1 /			Sam Jack	Drilling	Co.
	Addres	S	Route					Address	D 0 D		
				n, WV			***************************************		Buckhann	on, WV 2	6201
10)	PROPOSE	D WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	¥ /	
				Plug o	ff old	formation_	/ Perfo	rate new formation			
				Other 1	hysica	change in	well (specify)		· ·		
11)	GEOLOGI	ICAL TAR	GET FOR	MATION	Ī,	Alex	ander /430)		*	
	12) Estima	ated depth	of comple	ted well,		5250	feet				
	13) Appro	ximate trat	a depths:	Fresh, _			feet; sal	t <u>, 1400, 145</u> () feet		
	14) Appro	ximate coa	l seam dep	oths:		***	Is co	oal being mined in th	e area? Yes	/ 3/-	¥
15)	CASING A	AND TUBI	NG PRO	GRAM					100	/ 140_	
	SING OR BING TYPE		SPEC	CIFICATION	s	ditto and	FOOTAGE	INTERVALS	CEMENT FILL-UP	1 710	ECTOR O
	DE:40 111E	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS	PACI	LEKS
Cond	iuctor							LCIT III WEN	(Cubic feet)		
Fresh	water	11-3/4	H-40	42	х		160	160	To Surface	Kinds	T
Coal								1	TO SULTACE	By Rule	15.05
Interr	mediate	8-5/8	X-42	23	х		1650	1650	To Cure	Sizes	
Produ	uction	4-1/2	J-55	10.5	Х		5250	5250	To Surface	By Rule	15.05
Tubin	ng	1-1/2	CN-55	2.75	х			3230	200-400	Depths set	
Liners	S									By Rule	15.01
										Perforations:	
										Top	Bottom
		·									
						<u></u>				Ш	·
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						C	FFICE USE	ONLY			
							RILLING PE				
20	it number	47-0	17-366	۷							
C) 111	iii iiuiiiber		17-344	0						July 3	19 85
his :	nermit cove	ring the we	ll operate		1 7			•	Dat	1.0	
uire	ments subje	ct to the co	in operato inditions o	n and wei ontained	i iocati herein :	on shown b and on the	below is evidence	of permission grant	ed to drill in accordantiven to the District Oil	ice with the per	tinent legal re-
0. 8	Prior to th	e construc	tion of r os	ide Incati	one one	nite for an	reverse recreed, ly o	unication must be g	iven to the District Oil ell operator or his con	and Gas Insper	ctor, (Refer to
		•			· · · · · ·		ik nas commence	u.,			
he p	permitted wo	ork is as de	scribed in	the Notic	e and A	application,	plat, and reclama	ation plan, subject t	o any modifications a	nd conditions a	
			_					,,,	any mounications a	na conditions sp	becined on the
'erm	it expires _	July	3, 19	0/			unless well	work is commenced	prior to that date and	prosecuted with	due diligence
											and amgenee.
Bo	nd:	Agent	: F	lat:	Casir	ıg F	ee				
2	28 /	413	16		40	1 07	/ -				
		1 11/	111	14	11)	U 187.	13 7			/	
								1 Klago	red VX	Jasse	
ОТБ	F: Keen or	ie copy of	thic man-	5 mass					nistrator, Office of O	il and Gas	
1 1	E: Keep on	ic copy of	uns permi	posted a	i the d	rilling locat	ion.	\mathcal{O}			
											File

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