

(Rev 8-81)

DEPT. of MINES



OIL & GAS DIVISION State of Mest Hirginia

Bepartment of Mines Bil und Vas Bivision

Date	January 29, 1985					
Operator's						
Well No. CNGD WN 1510						
Farm_W	. J. Elliott					
API No.	47 107 1339					

WELL OPERATOR'S REPORT

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

OCATION: Elevation: 887.51 Watershed B	ull Creek			
District: Walker County Wood		Quadrangle	Willo	w Island
OMPANY CNG DEVELOPMENT COMPANY				
ADDRESS P.O.Box 15746, Pittsburgh, PA 15244	Caşing	Used in	Left	Cement
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling		fill up Cu. ft.
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330	Size			
SURFACE OWNER W. J. Elliott	20-16			
ADDRESS Rt. 3. St. Marys. WV 26170	Cond. 11-3/4 12x10x	271	271	To Surf.
MINERAL RIGHTS OWNER W. J. Elliott	9 5/8			
ADDRESS Rt. 3, St. Marys, WV 26170	8 5/8	1503	1503	To Surf.
OT AND CAS INSPECTION FOR THIS WORK		1303	1303	10 0022
Rt. 1 #6 Mt.Pleasant Est. Slen Robinson ADDRESS Minerwells, WV 26150	5 1/2			
PERMIT ISSUED 12-17-84	4 1/2	3981	3981	290 Thix.
DRILLING COMMENCED 1-8-85	3	3901	3201	
DRILLING COMPLETED 1-13-85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN			<u> </u>	1
GEOLOGICAL TARGET FORMATION Devonian Shale		Der	oth 382	feetfeet
Depth of completed well 3985 feet	Rotary_	x / Cab	le T∞ls_	
Water strata depth: Fresh Damp 1125 feet;				
Coal seam depths:	Is coal	. being mi	ned in th	e area? No
				•
OPEN FLOW DATA Producing formation Shale	Pa	av zone de	3256 oth 2322	- 3467 - 2400 fee
Gas: Initial open flow Mcf/d	Oil: Ir	nitial ope	n flow	Bbl/c
Final open flow (est) (140) Mcf/d	₹ F:	inal open	flow	180) Bbl/
Time of open flow between init				
Static rock pressure (est) 750psig(surface	e measure	ement) aft	er 24 ho	ours shut i
(If applicable due to multiple completion		,•		
Second producing formation_	· · P	ay zone de	pth	fee
Gas: Initial open flowMcf/d	Oil: I	nitial ope	n flow	Bbl/
Final open flowMcf/d	Oil: F	inal open	flow	Bbl/
rmar open fromrer/d	- Jana Bar Ist	final tost	·s 1	hoursings 2
mims of ason flaw between ini				
Time of open flow between ini Static rock pressurepsig(surface				

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

Perfco Perforated Shale 3256 - 3467; 24 holes; .39

Op Dev. 2322 - 2400; 30 holes; .39

B. J. Hughes Break 2760, 10 pumps, Avg. BPM 80,000, Avg. PSI 2700, 750 gal 15% HCL, ISIP 1940, 5 min 1740, Total N₂ 800,000. Break 1860, 11 pumps, Avg. BPM 88,000, Avg. PSI 2180, 500 gal 15% HCL, ISIP 1540, 5 min 1480, Total N₂ 800,000

WELL LOG

			DEMA DIVE
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale, RR	0	1346	Hole Damp 1125'
B. Lime	1346	1395	
Sand, Shale	1395	3985	Huron @ 70
Log Tops			
Big Lime	1335		,
Big Injun Berea	1924	1516 1930	
Les Dourses de la resonante de			
was thereon a second			
•	•	,	
			J.
			·

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY	
Well Operator / //	
1 1 VI. 11 11	
By: // helolar	
Date: January 29, 1985	

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





1)	Date:	Novembe	r 16,	, 1984
2)	Operator's Well No	1510		
3)	API Well No	o. 47 –	107 - 1	.339
,		- State	County	Permit

OIL & GAS DIVISION DEPT. OF MINES

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A	Oi	ı X	/ Ga	ıs					
	В	3 (If	''Gas'', F	roduction	ı		_/ Undergroun		/ Deep	/ Shallow/)
5) LOCATION: Elevation: 887.51					·	_ Watershed:	Bull Cre			
				Walker		- (0	County:	Wood	Quadrangle:	Willow Island
6) WELL OP:							x 15746		TED AGENT Mr. G	ary Nicholas
Address	C/ U_		ttsbur			5244	<u></u>		Crosswind Cor	
9) OH # CA	C INICI					7244				eport, WV 26330
,	B) OIL & GAS INSPECTOR TO BE NOTIFIED NameMr. Glen P. Robinson							ling Co		
						int Est	tate		P.O. Box 48	ring oo:
,,,,,,,			alwell					Addiess	Buckhannon, WV	26201
10) PROPOSE	D WE	LL V	VORK:	Drill	Х	_/ Drill	deeper	/ Redrill	/ Stimulate	
,				Plug of				orate new forma		
11) GEOLOGI	CAL T	ΓARC	GET FOR			change in Devon	well (specify)_ ian Shale			
12) Estima						382 <u>5</u>	fe	et		
13) Appro	ximate	trata	depths:	Fresh, _		-21	ofeet; sa	alt,	feet.	
14) Appro	ximate	coal	seam dept	hs:			ls	coal being mined i	n the area? Yes	/ No/
15) CASING A	ND T	UBI	NG PROC	RAM						
CASING OR TUBING TYPE	1		SPEC	FICATIONS	•	1	FOOTAG	E INTERVALS	CEMENT FILL-UP	PACKERS
	Siz	te	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	16	- 4					20 - 30			Kinds
Fresh water	[]];	3/4	H-40	42	X		250	250	To Surface	By Rule 15.05
Coal		F / d	V 40	00			7.47.0	7470	—	Sizes
Intermediate	71		X-42	23	Х		1410	1410	To Surface	4
Production		$\overline{}$	J-55	10.5	X	1	3825	3825	200 - 400	Depths set
Tubing	<u> </u>	3/ Q	CW-55	4.6	Х					By Rule 15.01
Lineis	 					1 1				Perforations:
	1									Top Bottom
	-									
										
							OFFICE USE			
•							DRILLING P	EKMII		
Permit number_			47-107	7-1339				-	Decembe	er 17, 19 84
								•	Da	
This permit cove	ring th	he we	ll operato	r and wel	l locati	on shown	below is evidence	e of permission g	ranted to drill in accorda	nce with the pertinent legal re-
No. 8) Prior to	the co	ne co nstruc	etion of ro	ontained ads. locat	nerein t ions a i	and on the od pits for	neverse nereor.	Notification must ork.In addition, the	t be given to the District (he well operator or his con	Dil and Gas Inspector, (Refer to ntractor shall notify the proper
							ork has commen		•	
	ork is	as de	scribed in	the Notic	e and A	Application	n, plat, and recla	mation plan, subj	ect to any modifications a	and conditions specified on the
reverse hereof.	מ	ece	mber 1	7. 19	86		_			
Permit expires _				.,,			unless w	eli work is comme	nced prior to that date and	l prosecuted with due diligence.
- · / T			/	. 1						
Bond:		Agent		Plat:	Casi	ng D	ree 24.) -		/ -
186	V	n!	Uh	211	m	1	721	N_{-}	. 0	//
							//	1 Jan	garet 1	Jasse
		_			_				dministrator, Office of (Oil and Gas
NOTE: Keep o	ne cop	y of	this perm	it posted a	at the c	Irilling loc	ation.			File

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