

IV-35 (Rev 8-81)





OIL & GAS DIVISION Bepartment of Mines
DEPT. OF MINES Gil und Gas Bivision

Date February 19, 1985 Operator's								
Well No.	CNGD WN 1509							
Farm W.	J. Elliott							
API No. 47 - 107 - 1340								

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas / Liquid Injection (If "Gas," Production / Undergrou	/ Waste nd Storage	e Disposal e/ Deep	/ / Sha	llow/)
LOCATION: Elevation: 993.47 Watershed	Bull Creel	ς		
District: Walker County Wood			Willow	Island_
COMPANY CNG DEVELOPMENT COMPANY		-		
ADDRESS P.O.Box 15746, Pittsburgh, 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 W. J. Elliott	20-16 . Cond.			
ADDRESS Rt. 3 St.Marys, WV 26170	11-3/4 13×19X	267	267	To Surf.
MINERAL RIGHTS OWNER W. J. Elliott	9 5/8	207	207	10 3011.
ADDRESS Rt. 3 St.Marys, WV 26170	8 5/8	1547	1547	To Surf
OIL AND GAS INSPECTOR FOR THIS WORK	7	1 147	1 194	
Glen P. Robinson ADDRESS Mineralwells, WV 26150	5 1/2			
PERMIT ISSUED 12-17-84	4 1/2	4392	4392	235 PRZ.
DRILLING COMMENCED 1-24-85	3			
DRILLING COMPLETED 1-29-85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN				
GEOLOGICAL TARGET FORMATION Dev. Shale			th 440	
Depth of completed well 4397 feet	Rotary <u>x</u>	/ Cabl	e T∞ls_	
Water strata depth: Fresh 1334 feet;				
Coal seam depths:	. Is coal	being min	ed in the	area? No
OPEN FLOW DATA	5		3508-3 2874-2	963
Producing formation Dev. Shale				
Gas: Initial open flow Mcf/d	Oil: In	itial open	1 110M	BDL/G
Final open flow (est.) 100 Mcf/d				
Time of open flow between init				
Static rock pressure 250 psig(surface		ment, alte	rrnoi	irs snut in
(If applicable due to multiple completion		د ــــــــــــــــــــــــــــــــــ		foat
Second producing formation	Pa	y zo ne der	יכת	£00 £

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

Perfco Perforated Shale 3508-3590; 24 holes (.39)

Up Dev. 2874-2963; 24 holes (.39)

Up Deu 2316-2422; 24 holes (.39)

B. J. Hughes Nit. Frac 1st Stage - Break 3240, 10 pumps, SCF/min 80,000, Avg. PSI 3180, 500 gal 15% H.C.L., IDIP 2380, 5 min 1960.

2nd Stage - Break 3980, 11 pumps, SCF/min 88,000, Avg. PSI 3720,

500 gals 15% H.C.L., ISIP 2400, 5 min 2120.

3rd Stage - Break 2800, 11 pumps, SCF.min 88,000, Avg. PSI 2780,

500 gal 15% H.C.L., ISIP 1940, 5 min 1700

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REPARKS Including indication of all fresh
			and salt water, coal, oil and gas
Clay	o	5	Water - 55' 1334'
Sand, Shale & RR	5	1375	
Big Lime & Injun	1375	1485	
Sand & Shale	1485	4397	Huron@ TD
LOG TOPS			•
LOG TOPS			
Big Injun - Base		1616	
Berea	2014	20 @ 9 4360	
Huron		4360	,
France trade y load to the substitute to	•		
0117			
recursion of the second			
			•

(Attach separate sheets as necessary)

Well Operator	
By: the of Miller	
Date: February 19. 1985	

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: NOV	rember	16,		, 19_84	4
2) Operator's Well No	1509				
1) ADI Wali No	47 -	107	_	1340	

County

Permit

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il X	/ Ga	ts	/					
•	В (І	f "Gas", l	Production	n		/ Underground	storage	/ Deep	/ Shallow	/)
5) LOCATIO	N: Ele	vation:	993.4	7		Watershed: _	Bull Cree			,
		trict:	Walke			County:	Wood	Quadrangle:	Willow 1	
6) WELL OP						_	7) DESIGNATED	AGENT Mr. Ga	ry Nichol	as
Address						<u>x 1</u> 5746	Address	Crosswind Co		
	<u> Pi</u>	ttsbu	<u>rgh, P</u>	<u> </u>	5244	10110	Rt. 2, Bo	x 698, Bridg	eport, W	<i>l</i> 26330
8) OIL & GA						10	9) DRILLING CO			
Name		<u>G]en</u>					Name San	<u> Jack Drilli</u>		
Address					asant E	<u>stat</u> e	Address	P.O. Box 48		
	<u>Mir</u>	<u>ieralw</u>	ells,	WV	26150			Buckhannon,	WV 2620)1
10) PROPOSE	D WELL	WORK:	Drill	Х	_/ Drill	deeper	/ Redrill	/ Stimulate	X	
			Plug of	f old	formation_	/ Perfor	ate new formation.	/		
			Other p	hysical	change in					
11) GEOLOGI	CAL TAR	GET FOR	MATION	•	Devoni	an Shale				
12) Estima	ated depth o	of complet	ed well,		3925	feet				
13) Appro		•	, —		-2124	=	· · · · · · · · · · · · · · · · · · ·			
14) Appro		•			100.00	ls co	al being mined in the	area? Yes	/ No_	<u>x</u> /
15) CASING A	AND TUBI	NG PRO	GRAM							
CASING OR TUBING TYPE		SPEC	IFICATIONS Weight	•		FOOTAGE I	NTERVALS	CEMENT FILL-UP OR SACKS	PACKE	ERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	16				ļ I	20 -30			Kinds	
Fresh water	11 3/4	H-40	42	X		250 275	250 275'	To Surface	By Rule	15.05
Coal	0.54	V 40	00		-	3.500	3.500		Sizes	
Intermediate	11	X-42	23	X	 	1520	1520	To Surface	1	
Production	11	J-55	1	Х	-	3925	3925	200 - 400	Depths set	75.03
Tubing	2 3/8	B CW-5	4.6	X					By Rule	15.01
Liners					-				Perforations:	
			<u> </u>		1				Top	Bottom
									#	
	L	L	L		1 4			11	_1!	
					0	FFICE USE O	ONLY		· · · · · · · · · · · · · · · · · · ·	
						RILLING PE				
		/7 10	7 10/0					.	1-	0/
Permit number_		4/-10	7 - 1340	 				Decembe		19 84
This permit cou	arina tha w	all omerate	s and wal	l loosti		-1 ::-	· 6 · · · · · · · · · · · · · · · · · ·	Da		45 4 7 7
quirements subje	ect to the co	onditions	ontained	herein	and on the i	reverse hereof. N	of permission grante offication must be	ed to drill in accordangiven to the District C	nce with the per Dil and Gas Inst	Tinent legal re-
No. 8) Prior to	the constru	ction of r	oads, loca	tions a	nd pits for a	ny permitted wor	k.In addition, the w	ell operator or his cor		
district oil and g	as inspecto	r 24 hours	before a	ctual pe	ermitted wo	rk has commence	i.)			
	ork is as de	scribed in	the Notic	e and A	Application,	plat, and reclama	ation plan, subject t	o any modifications a	and conditions s	pecified on the
reverse hereof.	Dece	ember	17. 19	86						
Permit expires			,			uniess well	work is commenced	prior to that date and	prosecuted with	i due diligence.
Bond:	Agen	t: 1	Plat:	Casi	ng F	ree (10		/	•
128	m	U /	nII	m	11/2	72	\mathcal{W}	, 0	; ·/ ·	
	 			· · ·			/ / lari	aaret I	lass	
							Aďmi	histrator, Office of (Oil and Gas	<u> </u>
NOTE: Keep o	one copy of	this perm	it posted	at the c	Irilling locat	ion.		,		***
	****		46		CAL APP	ICANIES COE	for instant	4h		File
		266	ine revers	e side (n ine APPI	JICAN I 'S COPY	for instructions to	tne well operator.		•