



IV-35 (Rev 8-81 SEP 1-0 1984

OIL & GAS DIVISION

DEPT. OF MINES

State of Mest Nieginia Bepartment of Mines Bil und Gas Bivision

Date	August 29	1984	
Operato	r's		
Well No	CNGD	529	3 3
Farm_	Rodgers		
API No.	47 -	107 -	1211

WELL OPERATOR'S REPORT

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

	(If "Gas,"	Production	n/ Underg	round Storag	te Disposa ge/ Dee	l/ p/ Sha	allow /)
LOCATION:	Elevation:_						
	District:	Walker	County	Wood	Ouadrangl	e Willow	Taland
·		-			_==	CNITION	TSISHU
COMPANY 4	WO D 1						
	CNG Developmen						
	P.O. Box 15746 AGENT Gar			Caşing	Used in	Left	Cement fill up
				Tubing	Drilling	in Well	Cu. ft.
	Rt. 2 Box 698, WNER Edna L.			Size			
	Rt. 3 Box 228			20-16 Cond. 11 3/4			
	GHTS OWNER			11 3/4	254	254	To surf
				9 5/8			
	S INSPECTOR I			8 5/8	954	954	To surf
Glen P.	ADDRESS	Rt. 1 Box	ORK 6 Mt.Pleasant	7			
	UED 7-5-84		, WV 26150	5 1/2			
	OMMENCED 7-			4 1/2	3770	3770	370 sks
	OMPLETED 7-			3			
				2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR		Liners					
REWORKING. ON	VERBAL PERM	TISSION OB	PAINED	used			
				<u> </u>	,		
GEOLOGICAL	TARGET FORM	TION	Devonian Shal	.e	Dept	h 4	500 feet
Depth	of completed	well3	824 feet	Rotary X	/ Cable	Tools	**
Water strata depth: Fresh 100 feet:		Salt	Rotary X / Cable Tools Salt feet				
Coal	seam depths:	143-150	378		being mine	d in the	area? No
OPEN FLOW	DATA					3076 - 3	205\
	cing formation	n 4 sta	ges Shale	5		2404 - 2 $2011 - 21$ $1055 -$	00'
	-			Pay	zone dept	n T	feet
•	Initial open f	est.	350 Mcf/d	OII: INI	tial open	t10M	Bbl/d
	Time of	open fla	s between ini	rin sed fi	ar obeu ii	.ow	Bb1/d
Statio	c rock pressu	re est. 80	v between ini	crar and in	nai tests	ho	irs
(If a	c rock pressu pplicable due	to multir	ole completio	ce neasuren	ent) arter	hou	rs shut in
	d producing f				gone dont	3 _	.
Gas:	Initial open	flow	Mof/a	Pay	tial one	41 <u> </u>	feet
	Final open f	low	Mcf/d	0:1. p:-	al own to	TTÓM	ROT\q
			v between ini				
Stati	c rock pressu	re	psia (surfac	o wosensow	nt/ stron	no	IIS
			Thomas (am rac	e weasmale	arter_	nou	rs snut in
					(Contin	ue on rev	verse side

PORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 8 holes (.39), 1055 - 1132, 16 holes (.39), 2404 - 2477, 18 holes (.39), 2011 - 2100, alliburton Frac 1st stage - Break 2270, 9 pumper units, SCF/min 71,000, Avg. PSI 2900, 1000 gals OD 202 Acid, ISIP 2150, 5/min 1970, SCFN2 600,000. 2nd Stage - Break 1650, 8 pumper units, CF/min 64,000, Avg. PSI 2550, 500 gal MOD 202 Acid, ISIP 1770, 5/min 1590, SCFN2 800,000 rd Stage - Break 2800, 8 pumper units, SCF/min 66,000, Avg. PSI 2500, 500 gal MOD 202 Acid, Vg. PSI 2500, 500 gal MOD 202 Acid, Vg. PSI 2250, 500 gal MOD 202 Acid, ISIP 1240, 5/min 1150, SCFN2 800,000.

WELL LCG

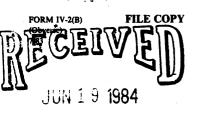
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay	0	10	1" stream water @ 45'
Sh, Sd	10	95	3" stream water @ 100' 1" stream water @ 200'
Coal	95	98	Hole damp @ 370'
Sand	'98	145	
Coal	145	150	
Sh, Sd	150	380	의 경기 (1945년 - 1945년 - - 1945년 - 194 - 1945년 - 194
Big Lime	380	490	
Injun Sand	490	565	
Sh, Sd	565	3824	
•			
LOG TOPS		,	
Berea	1000	1008	
Lower Huron	-	3380	
			en e
	į.		
•		i	

(Attach separate sheets as necessary)

CNG Devel	opment Company	
Well Of	perator	
By: Ya	2 A Shikition	
Date: Au	gust 29, 1984	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic lettiled peological record of all formations, including will, encountered in the drilling of a well."





1) Date:	June 14	, 19 <u>_84</u>
2) Operator's Well No.	E20 -	
3) API Well No.	12029	1311

County

Permit

File

State

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

APPLICATION FOR A WELL WORK PERMIT OIL & GAS DIVISION DEPTHURPHMNES _/ Gas ___ B (If "Gas", Production X Underground storage _ Elevation: 808 101 Watershed: _ Laurel Fork 5) LOCATION: Quadrangle: Willow Island District: Walker County: _ Wood 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas Address C/O Paul W. Garrett, P.O. Box 15746 Address Crosswind Corporate Park Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330 OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name Mr. Glen P. Robinson Name Sam Jack Drilling Company Address Rt. 1. 6 Mt. Pleasant Fstate P. O. Box 48 Mineralwells, WV 26150 Buckhannon, WV 26201 Drill X / Drill 10) PROPOSED WELL WORK: / Redrill ___/ Stimulate X / Plug off old formation____/ Perforate new formation____ Other physical change in well (specify), 11) GEOLOGICAL TARGET FORMATION, <u>Devonian Shale</u> 4200 12) Estimated depth of completed well, ____ 13) Approximate trata depths: Fresh, _ _feet; 14) Approximate coal seam depths: _ Is coal being mined in the area? 15) CASING AND TUBING PROGRAM CASING OR **SPECIFICATIONS** FOOTAGE INTERVALS CEMENT FILL-UP PACKERS TUBING TYPE Weight OR SACKS Left in well (Cubic feet) 16 20-30 Conductor Kinds Fresh water surface By Rule 15.05 250 250 Coal 1000 Intermediate 1000 To surface Bv Rule 15.05 10.5 4200 4200 200-400 sks Production Depths set Tubing By Rule 15.01 Liners Perforations: Bottom OFFICE USE ONLY **DRILLING PERMIT** 47-107-1311 Permit number This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. July 5, 1986 Permit expires _unless well work is commenced prior to that date and prosecuted with due diligence. Plat: Bond: Agent: Casing

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

NOTE: Keep one copy of this permit posted at the drilling location.