

RECEIVED

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

JUL 03 1991 DEPT. OF ENERGY W 11 Operator's Report of Well Work

STACK, MARK & BARBARA Farm name:

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 240, 710

Operator Well No.: UNDERWOOD 2

LOCATION:

Elevation: 1096.00

Quadrangle: SHIRLEY

District: MCELROY

MCELROY County: TYLER
13835 Feet South of 39 Deg. 25Min. 0 Sec.
5225 Feet West of 80 Deg. 47 Min. 30 Sec. Latitude: Longitude

Company:STONEWALL GAS COMPANY 909 E. MAIN ST. P.O. BOX 1575 | Casing | Used in | Left Cement RICHMOND, VA 23219-1575 Fill Up Tubing | Drilling | in Well|Cu. Ft. Agent: JESSE A. SHELL Size Inspector: MIKE UNDERWOOD 05/27/91 05-31-91 Permit Issued: 11\_3/4\_ <u> 117.</u> 117 85\_SKS\_ Well work Commenced: 06-07-91 Well work Completed: Verbal Plugging 260 SKS 8 5/8 1010 1010 Permission granted on: Rotary X Cable Total Depth (feet) 5138 5138 710 SKS 4 1/2 Fresh water depths (ft) 225 716' Salt water depths (ft)

## OPEN FLOW DATA

Producing formation BENSON	Pay zone depth (ft) 5024
Gas: Initial open flow * MCF/d Oil:	Initial open flow 0 Bbl/d
Final open flow $\frac{1110}{1110}$ MCF/d	Final open flow 0 Bbl/d
Time of open flow between initial a	and final tests ${}$ Hours
Static rock Pressure 1550 psig (surfa	ace pressure) after <u>168</u> Hours
Second producing formation RILEY Gas: Initial open flow * MCF/d Oil:	Pay zone depth (ft) 4598
Gas: Initial open flow * MCF/d Oil:	Initial open flow 0 Bbl/d
Final open flow 1110 MCF/d	Final open flow $\frac{1}{0}$ Bbl/d
Time of open flow between initial a	and final tests $\frac{1}{1}$ Hours
Static rock Pressure 1550 psig (surfa	ace pressure) after 168 Hours

\*UNABLE TO DETERMINE DUE TO LARGE OPEN FLOW UP HOLE
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED
INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GEOLOGICAL RECORD OF ALL FORMATIONS, LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

> For: STONEWALL GAS COMPANY JUL 0 8 1991 RAY M. FREAR, JR. Date: PETROLEUM ENGINEER

2	STAGES	WATER FRAC	06-18-91 DATE			
ZONES	PERFS	HOLES	BBL	BP	ISIP	
BENSON	5024-5028	16	600	1630	1600	
RILEY	4598-4604	18	700	1750	1700	

FORMATION	COLOR	HAI	RD/SOFT	TOP	BOTTOM	REN	1ARKS	
RR & SHALE	BROWN	HARD	0	60		1/11	#11(I)	
SAND	GRAY	HARD	60	80	GAS CK	s @	2025	NO SHOW
SAND & SHALE	GRAY	SOFT	80	135			2057	60/10 2" W/W
SAND	GRAY	SOFT	135	150			2088	
RR & SHALE	RED	SOFT	150	170				130/10 2" W/W
SAND	BROWN	HARD	170	175				-50, 10 2 W, W
SAND & SHALE	BROWN	HARD	175	240			2149	16/10 2" W/MER
COAL	BLACK	SOFT	240	245				16/10 2" W/MER
SAND & SHALE	GRAY	SOFT	245	710				,
COAL	BLACK	SOFT	710	716			2771	14/10 2" W/MER
SAND	GRAY	HARD	716	735				8/10 2" W/MER
SAND & SHALE	BROWN	HARD	735	1785				
SAND	BROWN	HARD	1785	1865			4661	8/10 2" W/MER
SAND & SHALE	BROWN	SOFT	1865	1917				., -,,
LITTLE LIME	GRAY	SOFT	1917	1930			5095	6/10 2" W/MER
SHALE	GRAY	SOFT	1930	1950				.,
BIG LIME	GRAY	HARD	1950	2025			TD 4/	'10 2" W/MER
BIG INJUN	BROWN	HARD	2025	2175			<b>,</b>	_ , , , , , , , , , , , , , , , , , , ,
SAND & SHALE	BROWN	SOFT	2175	2685				
GORDON	BROWN	SOFT	2685	2750				
SAND & SHALE	GRAY	HARD	2750	4585				
RILEY	GRAY	HARD	4585	4655				
SAND & SHALE	BROWN	SOFT	4655	5000				
BENSON	GRAY	SOFT	5000	5070				
SHALE	GRAY	SOFT	5070	5200				
TD			5200					

grant to the same

FORM WW-2B

## Page of Expres 5/27/93 AND GAS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL WELL WORK PERMIT APPLICATION

1) Well Op	erator:_	STONEWAL	L GAS COMP	AN: 47850	(5) 606				
2) Operato	r's Well	Number:	UNDERWOOD	#2 (596-S)	3) El	evation: 1096'			
4) Well ty	pe: (a)	0il_/	or Ga	s <u>x</u> /					
(b) If Gas: Production $X$ / Underground Storage/  Deep/ $435$									
5) Proposed Target Formation(s): BENSON									
6) Proposed Total Depth: 5200 feet									
7) Approxi	mate fres	h water s	strata dep	ths: 70' &	180'				
8) Approxi	mate salt	water de	pths:	N/A					
9) Approxim	mate coal	seam der	ths:	N/A					
10) Does las	nd contai	n coal se	ams tribut	ary to act	ive mine? Ye	s/ No_X/			
11) Proposed	Well Wo	rk: DRILI	& STIMULA	ATE NEW WELI					
12)				· ·					
		,		NG PROGRAM	 	•			
TYPE	S	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT			
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)			
Conductor	11 3/4"		27#	100'	100'	CSR 38 18/11.1			
Fresh Water						Och 1			
Coal						Mul			
Intermediate	8 5/8"		20#	1000'	1000'	CSR 38 18-11-2-2			
Production	4 1/2"	J-55	10.5#	5140'	5140'	CSR 38 18-11.3			
, Tubing	·								
Liners									
PACKERS: Kind									
Sizes									
Por Divison of Oil and Gas Use Only									
Fee(s) pariel: 1   Well Work Permit   Reclamation Fund   WPCP									
171 Plat 11 WW-9 17 WW-2B 1 Bond ( Detailed T Agent									

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			n of Energy	2)		
(03)	/87)	MAY 1	0.7 👊		UNDERWOOD #2 (596-S)	
		s.Nait /	0 7 91	3)	API Well No: 47 - 095 - 146	i5
		Per	rmitting		State - County - Per	mit
		Oil and	Gas Section			
			STATE OF	WEST	' VIRGINIA	
		DEPARTMENT	r of enerc	FY, DI	VISION OF OIL AND GAS	
				•		
		NOTICE AND	APPLICAT	CION FO	OR A WELL WORK PERMIT	
4.5	G		_			
4)	Surface (	Owner(s) to	be served	i:	5) (a) Coal Operator:	
	(a) Name	MARK A. &	BARBARA S'	TACK		
	Address _	HCR 74 BO	X 27	·······	Address	
	WILBUR,	WV 26320				
	(D) Name				(b) Coal Owner(s) with Declara	tion
	Address _				Name SAME AS SURFACE	
	7-1				Address	
	(C) Name					
	Address _		·		Name	
	<del></del>				Address	
<i>c</i> \	<b>T</b>					
6)	Inspector	MIKE UND	ERWOOD		(c) Coal Lessee with Declarati	
	Address	RT 2 BOX 13: WV 26426	5		Name N/A	
	SALEM,	WV 26426			Address	
	rerepnone	(304) - <u>782</u> -	-1043			
		MO MUD 555				
		TO THE PERS	ON(S) NAM	ED ABC	OVE TAKE NOTICE THAT:	
	Tm = 1 4 4		_			
	_ included	is the leas	e or leas	es or	other continuing contract or	
CONC	racus by w	wich I wold	the righ	it to e	extract oil and gas OR	
Soct	_ included	is the into	rmation r	equire	ed by Chapter 22B, Article 1,	
Sect	T combife	i the Code	of West V	irgini	ia (see page 2)	
T h-	r certify	'tnat as re	quired un	der Ch	hapter 22B of the West Virginia	Cod
1 119	ive served	copies of t	nis notic	e and	application a location plat	
acco	umbantarnd d	ocuments pa	ges 1 thr	ough	on the above named parties i	by:
	Pers	onal Servic	e (Affida	vit at	ttached)	_
	_X_ Cert	irled Mail	(Postmark	ed pos	stal receipt attached)	
	Publ	ication (No	tice of P	ublica	ation attached)	
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to t	i nave re	ad and unde	rstand Ch	apter	22B and 38 CSR 11-18, and I ag	ree
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info	rmation i	e that there	e are sig	nirica	ant penalties for submitting fal	Lse
		nerdding th	e possibi	Tith o	of fine and imprisonment.	
••••••	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	************	well oper	ator -	STONEWALL GAS COMPANY	
A THE	OFFICIAL SEAL NOT	ARY PUBLIC		A Hrs		
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