



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

Well Operator's Report of Well Work

Farm name: WELCH, MARY MAXINE

Operator Well No.: 1-448-S

LOCATION:

Elevation: 1082.00 Quadrangle: WEST UNION

District: GRANT

County: DODDRIDGE

Latitude: 5980 Feet South of 39 Deg. 22Min. 30 Sec. Longitude 5660 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS COMPANY

909 E. MAIN ST. P.O. BOX 1575

RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD

Permit Issued: 06/11/90

Well work Commenced: 07-25-90

Well work Completed:

07-30-90

Verbal Plugging

Permission granted on:_

Rotary X Cable Ri
Total Depth (feet) 5300

Fresh water depths (ft) 71

Salt water depths (ft)

 $\frac{1010 \& 1875}{\text{Is coal being mined in area (Y/N)?}N}$

Coal Depths (ft): N/A

Chicago Common	Casing &	Used in	Left	Cement Fill Up	
* ACROSSICS #195000	Tubing	Drilling	in Well	Cu. Ft.	
Personal formation	Size		COLORON WALLES		
**************************	11 3/4	172	172	95 SKS	
Chancel Contracts team	8 5/8	1300	1300	 290 SKS	
of emission accounts to	4 1/2	5145	5145	710 SKS	
CONTRACTOR STREET	nanous				
se endergoin months and		Company			
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OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5064 Gas: Initial open flow 189/428 MCF/d Oil: Initial open flow 0 Bbl/d Final open flow $1\overline{100}$ MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 1 HR Hours Static rock Pressure 1400 psig (surface pressure) after 168 Hours

Second producing formation SPEECHLY Pay zone depth (ft) 3570 Gas: Initial open flow 239 MCF/d Oil: Initial open flow 0 Bbl/d Final open flow 1100 MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 1 Hours Static rock Pressure 1400 psig (surface pressure) after 168 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS COMPANY

PETROLEUM ENGINEER

Date:

	2	FRAC WATER		DATE	08-08-	90		
ZONES		PERFS		HOLES		BBL	BP	ISIP
BENSON		5064-5068		16		700	1860	1700
SPEECHL'	Y	3570-3574		16		600	1350	1390
				O		000	1330	1390
FORMATIO		COLOR		HARD/SOF	T TOP	BOTTO	OM REMAI	OVC
RR & SHA	LE	BROWN	HARD	0	71			77/2
SAND		BROWN	SOFT	71	88	$1/2 \mathrm{H}_{2}$	0 @ 71'	
RR & SHA	ALE.	GRAY	HARD	88		77.07 T D	11/70 () 7.07	_
	HALE	GRAY	HARD		143	HOLE DA	AMP @ 1010)
SAND	ليبك ليبتبت مشده	BROWN		143	185			
	HALE		SOFT	185	225	2" H ₂ 0	@ 1875	
RR & SHA		BROWN	SOFT	225	270	4		
SAND	ىكىك	GRAY	HARD	270	340	GAS CK	2245 4/10) 2" W/W
	7 77	BROWN	SOFT	340	450			
RR & SHA		GRAY	HARD	450	500	GAS CK	2432 4/10) 2" W/W
	HALE	GRAY	HARD	500	730		,	~ ~ 44, 44
COAL		GRAY	SOFT	730	736	GAS CK	2896 26/1	0 24 1/1/1
	HALE	BROWN	HARD	736	740	0110 011	2070 2071	.0 2 W/W
SAND		BROWN	SOFT	740	749	CASCV	3796 32/1	O 211 TT/TT
SAND & S	HALE	GRAY	SOFT	749	1300	CAC CV	3/30 3Z/I	0 2 W/W
SHALE		GRAY	HARD	1300	1350	GAS CK	TD 20/10	2" W/W
SAND & S	HALE	GRAY	HARD	1350	1712			
SAND		BROWN	SOFT	1712				
SAND, SH	ATE	DICOMIN DICOMIN			1792			
LITTLE L	TME,		SOFT	1792	1963			
SHALE	11111	BROWN	HARD	1963	1973			
BIG LIME		GRAY	HARD	1973	2003			
		BROWN	SOFT	2003	2115			
BIG INJUI		BROWN	SOFT	2115	2144			
SAND & SI	HALE	BROWN	SOFT	2144	2785			
GORDON		GRAY	HARD	2785	2800			
SAND & SI	HALE	GRAY	HARD	2800	4618			
RILEY		BROWN	SOFT	4618	4640			
SAND & SH	HALE	BROWN	SOFT	4640	5300			
TD				5300	2200			
		,		2200				

FORM WW-2B

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well O	perator:	STONEWAL	L GAS COMP	ANY 4785	0 (3) 670	>		
						levation: 1082		
			or Ga			elita di dali silata di .		
© _©	(b)	If Gas:	Productio Dee	n/ Underg	round Storag			
5) Propose	d Target	Formation	n(s):	benson 435				
6) Propose	d Total I	epth: 5	250'	feet	Λ	in Dani		
7) Approxi	mate fres	h water a	strata dep	ths: 30',	150 OK 1000	wolls Care		
6) Proposed Total Depth: 5250' feet 7) Approximate fresh water strata depths: 30', 150' 0K fixed all' 8) Approximate salt water depths: 1980' 1K								
9) Approxi								
10) Does las	nd contai	n coal se	ams tribu	tary to act	ive mine? Y	es/ No_X_/		
			L-& STIMUL	. /	Moll	- Control Control - Contro		
12)				The Medical	aver	•		
	•	CASIN	G AND TUB	ING PROGRAM				
TYPE	<u> </u>	PECIFICAT	IONS	FOOTAGE II	TERVALS	CEMENT		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft'.)		
Conductor	11 3/4"		27#	130'	130' CTS	B8CSR18-11.3		
Fresh Water		-		•	175'	0.K.U.		
Coal								
Intermediate	8 5/8"	\$	20#	1276'	1276' CTS	38CSR18-11.2.		
roduction	4 1/2"		10.5#	5190'	5190 '	38CSR18-11.1		
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iners		and the second s			ı	FCF		
ACKERS : Kin	d				C	Division of Energy		
Siz Dep	es ths set					Al 2 1 90		
36	***************************************	r Divisor	of Oil a	nd Gas Use	Only	Permitting and Gas Sappli		
1) ! Fee(s) pa			ork Permit	11	amation Fund	(_K/		
21/	/- '-				amacion run			

Page 1 of	1)	Date: MAY 17, 1990
Form WW2-A	2)	Operator's well number
(09/87)	- ,	WELCH #1 448-S
File Copy	3)	API Well No: 47 - 017 - 3827
		State - County - Permit
	STATE OF WEST DEPARTMENT OF ENERGY, DI	VISION OF OIL AND GAS Dis CEIL
	NOTICE AND APPLICATION F	OR A WELL WORK PERMIT
(a) Nam Address PAI (b) Nam Address	Owner(s) to be served: e MARY MAXINE WELCH PO BOX 4308 RKERSBURG, WV 26101 e BERTHA PIERSOL C/O MARY WELCH 4308 PARKERSBURG, WV 26101	5) (a) Coal Operator: Oil Permission Name N/A Address (b) Coal Owner(s) with Declaration Name SEE ATTACHED SHEET
(c) Nam	e	
Address		Name
***************************************		Address
Address SALI	or MIKE UNDERWOOD RT 2, BOX 135 EM, WV 26426 ne (304) - 782-1043	(c) Coal Lessee with Declaration Name N/A Address
	MO MUE DEDGOM/G) WINDS TO	
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
contracts by X Include Section 8(d) I certi I have serve accompanying Pe X Ce	which I hold the right to d is the information requir of the Code of West Virgin fy that as required under Cd copies of this notice and documents pages 1 through rsonal Service (Affidavit a	ed by Chapter 22B, Article 1, ia (see page 2) hapter 22B of the West Virginia Code application, a location plat, and on the above named parties, by: ttached)
	blication (Notice of Public	stal receipt attached) ation attached)
I have to the terms I certifamiliar with attachments, responsible is true, acc I am aw information, STATE POOT My Commiss	read and understand Chapter and conditions of any perm fy under penalty of law that he information submitted and that based on my inquifor obtaining the informatiurate, and complete. The that there are signific including the possibility for the information of the including the possibility for the including the	ation attached) 22B and 38 CSR 11-18, and I agree it issued under this application. I have personally examined and am on this application form and all ry of those individuals immediately on, I believe that the information ant penalties for submitting false of fine and imprisonment. STONEWALL GAS COMPANY NT AWER R WV 26378-0080 04-884-7881
I have to the terms I certifamiliar with attachments, responsible is true, acc I am aw information, STATE POOT My Commiss	read and understand Chapter and conditions of any perm fy under penalty of law that he information submitted and that based on my inquifor obtaining the informatiurate, and complete. The that there are signific are that there are signific including the possibility well operator of the following the possibility well operator of the following the possibility of the following the followin	ation attached) 22B and 38 CSR 11-18, and I agree it issued under this application. t I have personally examined and am on this application form and all ry of those individuals immediately on, I believe that the information ant penalties for submitting false of fine and imprisonment. STONEWALL GAS COMPANY NT AWER R . WV 26378-0080 04-884-7881