

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

Well Operator's Report of Well Work

Farm name: COSTILOW, CONRAD Operator Well No.: CONRAD 1 547-S

LOCATION: Elevation: 1004.00 Quadrangle: WEST UNION

> District: CENTERVILLE

CENTERVILLE County: TYLER
1300 Feet South of 39 Deg. 22Min. 30 Sec.
10540 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 Permit Issued: 11/13/90 11 3/4 157 157 75 SKS Well work Commenced: 12/01/90 Well work Completed: 12/08/90 Verbal Plugging 8 5/8 1341 1341 285 SKS Permission granted on: Rotary X Cable
Total Depth (feet) 515
Fresh water depths (ft) 5150 4 1/2 5057 5057 710 SKS Salt water depths (ft) 265, 1440
Is coal being mined in area (Y/N)? N

OPEN FLOW DATA

Coal Depths (ft): 515

Producing formation BENSON	Pay zone depth (ft) 4968
Gas: Initial open flow 231 MCF/d Oil:	Initial open flow 0 Bb1/d
Final open flow $\frac{2613}{2613}$ MCF/d Time of open flow between initial a	Final open flow 0 Bbl/d
Time of open flow between initial a	and final tests ${}$ Hours
Static rock Pressure 1575 psig (surfa	ace pressure) after 168 Hours
Second producing formation RILEY	Pay zone depth (ft) 4552
Gas: Initial open flow 731 MCF/d Oil:	Initial open flow o bhiza
rinal open flow 2613 MCF/d	Final open flow O Phi/d
Time of open flow between initial;	and final tests 1 works
Static rock Pressure 1575 psig (surfa	ace pressure) after <u>168</u> 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.

RECEIVED

FEB 26 1991

DEPT. OF ENERGY

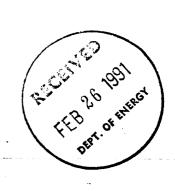
For: STONEWALL GAS COMPANY

ST By: RAY M. FREAR, JR.

FEBRUARY Date: 199 ETROLEUM ENGINEER

	<u> FAGE WAT</u>	ER FR	AC 12-	19-90	DA	TE				
Z	ONES		PERFS		H	OLES		В	BL	BP
BENSON	4	968-497	73		20		700		100	
RILEY		552-455			20		700		220	1650 1742
									220	1/42
FORMATION		OLOR		HARD	/SOFT	TOP	В	OTTOM	RE	MARKS
•										
FILL	BROWN	SOFT	0	2	D 43	~	201			
SAND	GRAY	SOFT	0 3	3 20		1P @		0 100		
RR & SHALE	GRAY	SOFT	20	25 25	1/4	2 5.	LKEAM	@ 120		
SAND	BROWN	HARD	25 25	45	1/4	2 S.	CTDE	@ 265	, , ,	
SAND & SHALE	GRAY	HARD	45	77	Т.	1/2	SIKE	AM @ 14	440	
SAND	GRAY	HARD	43 77	122	CAG	CV	1022	NO SHO	NT 7	
SHALE & RR	BROWN	SOFT	122	196	CAG	CK	1904	NO SHO	JW 37.7	
SAND & SHALE	GRAY	SOFT	196	280	GAL) CR	1774	NO SHO	JW	
RR & SHALE	GRAY	SOFT	280	405	CAS	CK	2025	60/10	211 1	.7 / 7.7
SAND	BROWN	SOFT	405	515				90/10		
COAL	BLACK	HARD	515	517	GAS	CK	2736	60/10	2 ' 1	N / W J / TJ
SAND & SHALE	GRAY	HARD	517	590	Olic		2730	00/10	2 V	N / W
SAND	GRAY	HARD	590	620	GAS	CK	4106	70/10	2" 1	J / T.J
SAND & SHALE	GRAY	SOFT	620	660				50/10		
SAND	BROWN	SOFT	660	690			1207	30,10	v	v / v ·
SAND & SHALE	BROWN	SOFT	690	940	GAS	CK	4603	54/10	2" [J/W
SHALE & RR	GRAY	HARD	940	1175				5 ., = 5	- '	•, ••
SAND & SHALE	GRAY	HARD	1175	1863	GAS	CK	TD 30	/10 2"	' W/V	J
L-LIME	BROWN	SOFT	1863	1875				,	, .	•
SAND & SHALE	BROWN	HARD	1875	1899						
B-LIME	GRAY	SOFT	1899	1990						
INJUN	GRAY	SOFT	1990	2110						
SAND & SHALE	BROWN	HARD	2110	2680						
GORDON	BROWN	SOFT	2680	2695						
SAND & SHALE	BROWN	SOFT	2695	4515						
RILEY	GRAY	HARD	4515	4595						
SAND & SHALE	GRAY	HARD	4595	4925						
BENSON	BROWN	SOFT	4925	4940						
SAND & SHALE	BROWN	SOFT	4940	5150						
TD			5150							

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FORM WW-2B

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION SHT STONEWALL GAS COMPANY 47850

1)	Well	Ope	rator:_	STONEWAL	L GAS COMP	ANY 47850		670
2)	Opera	ator	's Well	Number:_	CONRAD #	1 (547-	<u>-S)</u> 3)	Elevation: 1004'
4)	Well	type	e: (a)	0il_/	or Ga	s <u>X</u> /		
			(p)	If Gas:	Productio Dee	n <u>X</u> / Underg P <u></u> /	round Stor Shal	age/ low <u>X_</u> /
5)	Propo	sed	Target	Formatio	n(s):	BENSON 435		
6)								
7) Approximate fresh water strata depths: 40', 800' NOV 0 7								
8) Approximate salt water depths: 1700' Common State S								
9) Approximate coal seam depths: N/A								
10) Does land contain coal seams tributary to active mine? Yes/ No_X/								
11)	Propo	sed	Well Wo	ork: DI	RILL & STIM	ULATE		
12)								
CASING AND TUBING PROGRAM								
TYPE		T		SPECIFICA	TIONS	FOOTAGE II	NTERVALS	CEMENT
			Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor		11 3/4"		27#	100'	100' CT	38 CSR S) 18-11.3
Fresh	Wate:	<u>r</u>			·			
Coal							ر	7 3
Inter	media	te	8 5/8"		20#	1250'	1240' CTS	
Produ	tion		4 1/2"	J-55	10.5#	5060'	5060'→	38 CSR - 18-11 1
, <u> </u>	1							
Liners	5				OK R	ج		
PACKE		(ind_						
		Sizes Depth	s is set					
7	2.		F	or Diviso	n of Oil a	nd Gas Use	Only	\sim
Fee(s) paid: 1 Well Work Permit Reclamation Fund WPCP								
Plat 1 ww-9 1 ww-28 1 Bond Blanket 1 1 Agent								
						en e	Type) /	the second second

Page 1 of	1)	Date: NOVEMBER 5, 1990	
Form WW2-A	2)	Operator's well number	
(09/87)		CONRAD #1 (547-S)	
	3)	API Well No: 47 - 095	- 1443
		State - County	- Permit
	STATE OF WEST	VIRGINIA	
DEPARTMEN'		VISION OF OIL AND GAS	
			May a =
NOTICE AN	D APPLICATION FO	OR A WELL WORK PERMIT	NOV 07
A)			Barrier
 Surface Owner(s) to (a) Name <u>CONRAD COS</u> 	De served:	5) (a) Coal Operator:	್" ೯೯೩ ಮಿ ಟಿಟ
Address 301½ LOUIS	TILOW TILOW	Name N/A	· · · · · · · · · · · · · · · · · · ·
WEST UNION	LAVE.	Address	
(b) Name	, W V	(b) Coal Owner(s) with De	-1
Address		Name SAME AS SURFACE	ectaration
		Address	
(c) Name		Address	
Address		Name	
		Address	
6) Inspector MIKE UNDE	RWOOD	(c) Coal Lessee with Dec	laration
Address RT 2 BOX I	35	Name N/A	
SALEM, WV 26		Address	
Telephone (304)- <u>78</u>	2-1043		
ממת שעש הש	CON/C) NAVED AD		
TO THE PER	SON(S) NAMED ABO	OVE TAKE NOTICE THAT:	
Included is the less	se or loages or		
contracts by which I hold	ie of leases of	other continuing contract	or
X Included is the info	rmation require	ed by Chapter 22B, Article	. 1
Section 8(d) of the Code	of West Virgin	ia (see page 2)	± ,
I certify that as re	equired under Ch	Bapter 228 of the West Vir	rdinia Code
I have served copies of t	this notice and	application, a location r	olat and
accompanying documents pa	ages 1 through	on the above named par	ties hv
Personal Service	ce (Affidavit at	tached)	,
X Certified Mail	(Postmarked pos	stal receipt attached)	
Publication (No	otice of Publica	ation attached)	
I have read and unde	erstand Chapter	22B and 38 CSR 11-18, and	l I agree
to the terms and condition	ons of any permi	it issued under this appli	cation.
familiar with the information	ilty of law that	I have personally examin	ed and am
attachments, and that has	ed or my inquit	on this application form	and all
responsible for obtaining	the information	y of those individuals imon, I believe that the inf	mediately
is true, accurate, and co	omplete.	on, I believe that the ini	ormation
I am aware that then	e are significa	ant penalties for submitti	ng falso
information, including th	ne possibility o	of fine and imprisonment	ng raise
***************************************	Well Operator	STONEWALL GAS COMPANY	
OFFICIAL SEAL NOTARY BUSING \$	Rv: Bein (1. Duits	
STATE OF WEST VIRGINIA DOROTHY QUEEN	Its: PRESII		
POST OFFICE DRAWER R	Address FO DKA		
JANE LEW, WV 26373	JANE I	LEW, WV 26378-0080	
My Commission Expires Mar. 14, 2000 ; Subscribed and Sworn be fo	re me this 5TU	-004-/001	00
A A	TE WE CUIRTIN	day or movember	, 19 <u>90</u>
Dorothy Lucia			
		At a +	ary Public