





1)	Date: JUNE	16	· 	19.	86

2) Operator's Well No. CITIES SERVICE #1 (355-S

3) API Well No. 47 039 -4331
State County Permit

STATE OF WEST VIRGINIA

DIVISION DEPART	ON OF OI	L & GAS ENER	B DEI JY	PARTM	ENT O	F ENERG	GY, OIL A	AND GAS DIVIS	SION , 2014 of the second	111111111111111111111111111111111111111	
4) WELL TY	PE: A O	il	/ G:	as X							
,	B (I	f ''Gas'', l	Productio						_/ Deep <u>X</u>	/ Shallow .	/)
5) LOCATIO		vation: _			ATT ATTEN			NAWHA RIVE			
	Dis	trict:	LOUDO	<u> </u>	247			NAWHA		CHARLESTON	
6) WELL OF		STONEW P.O. D			MPANUL	E: 7/	27 7	DESIGNATED Address	AGENT CHARL	ES W. CANF DRAWER R	TELU
Addres		JANE L			78			Address		LEW, WV 26	378
	8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name RODNEY G. DILLON (304-469-2015) Name										
Addres		.O. BO		25917				Address	<u> </u>		
10) PROPOS	ED WELL	WORK:	Drill_	ζ .	/ Drill	deepe	r	_/ Redrill	/ Stimulate	/	
			Plug o	ff old f	ormation	1/	Perforat	e new formation_	/		
						n well (spe	cify)				
11) GEOLOG				I, <u>OR</u>	LSKAN OO	T grand, grant					i
,	nated depth o	-		51		71	feet	a 901	feet.		
	oximate trat	-			- /c	51feet		,	area? Yes	/ No	X /
14) Appr 15) CASING	oximate coa	-		Par	mit:	此人	191,20		arca: res	140	
CASING OR			RECATION	15			OOTAGE INT		CEMENT FILLUP OR SACKS	PACK	ERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For dr	illing	Left in well	(Cubic feet)	$\rightarrow \rightarrow \rightarrow$	//
Conductor	11 3/	4	ļ	X		-550	41	550561	TO SURFACE	Kinds C Ky	1/2/10/02
Fresh water				ļ							
Coal	1 0 5/	<u> </u>		ļ		7.550		1 CF 0		Sizes	
Intermediate	8 5/		1	X		1650		1650	TO SURFACE	D	
Production	4 1/	<u> </u>	1	<u> </u>		5050		5050	RULE 15.05	Depths set	
Tubing			 	1						Perforations:	
Line.s				1						Тор	Bottom
	1			1							
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						OFFICE	TICE	NIT V			-
							NG PER				
				_		i i i i i i i i i i i i i i i i i i i		型 型 英 A 7.4		Trans OF	10.00
Permit number	4	7-039	9-433	1				***************************************		June 25	19 86
					,			·		ate	tinant lagal re
This permit co quirements sub No. 8) Prior to the district oil and	ject to the c	onditions	contained	herein a	and on th	ne reverse h anv nermiti	ereof Notif	ication must be given addition, the w	ed to drill in accordance ten to the District O ell operator or his co	il and Gas Inspec ontractor shall no	tor. (Refer to tify the proper
									o any modifications	and conditions s	pecified on the
reverse hereof.											
Permit expires		une 2	25, I	988		u	nless well v	vork is commenced	prior to that date ar	nd prosecuted with	h due diligence.
r			т								
Bond:	Agent	: I	Plat:	Casi	ng	Fee	WPCP_	S&E.	Other		E G
1	I	_]	4	A		3054	K	I KR	To Carlo		r g
<u> </u>	NU	2 1		13		,00,1				,	
								An 1/	Solusto	on	
NOTE: Keep	one copy of	this pern	nit posted	at the d	Irilling lo	cation.	Dj	rector, Div	ision of Oi	l and Gas	Fjle
,	······································	See	the rever	se side o	f the Al	PLICANT	's copy	for instructions to	the well operator/	vegant.	1. Hasse



Sinte of West Birginia

DEPARTMENT OF ENERGY
Gil und Gas Bivision

Date	OC:	rob	ER	21	, 1	98	6		-
Opera Well		. 1 -						4	F]
MeTT					3	55-	S		-
Farm	W	<u>001</u>	RUI	'F			***********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
API I	No.	47	-03	39-		-	43	3.	L

WEIL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil \underline{X} / Gas \underline{X} / Liquid Injection (If "Gas," Production \underline{X} / Undergroun	_/ Waste d Storage	Disposal_ _/ Deep	/ / Shal	low <u>X</u> /)	
LOCATION: Elevation: 1065 Watershed K District: LOUDON County KANAWI	ANAWHA R	IVEK		CONTRACTOR OF STREET	
					Managar.
COMPANY STONEWALL GAS COMPANY ADDRESS PO DRAWER R, JANE LEW, WV 26378	Caşing	Used in Drilling		Cement fill up	And the second s
DESIGNATED AGENT CHARLES W. CANFIELD ADDRESS PO DRAWER R, JANE LEW, WV 26378	Tubing Size 20-16	Drilling	III WEIT		-
SURFACE OWNER BEN WOODRUFF ET AL ADDRESS 1643 WOODVALE RD., CHARLESTON, WV	Cond. 13-10"			200 GV	
MINERAL RIGHTS OWNER SAME AS SURFACE	9 ¹ 5/8 ³ /4 8 5/8	556 1754	556 1754	208 SK 375 SK	-
OIL AND GAS INSPECTOR FOR THIS WORKRODNEY DILLON ADDRESS BOX 30, SCARBRO, WV 25917	7 5 1/2			255 07	7.5
PERMIT ISSUED JUNE 25, 1986 DRILLING COMMENCED JUNE 28, 1986	4 1/2	5020	5020	355 SK	
DRILLING COMPLETED JULY 8, 1986 IF APPLICABLE: PLUGGING OF DRY HOLE ON PROPERTY FROM DRILLING OR	2 Liners				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	used		106		eet
GEOLOGICAL TARGET FORMATION ORISKANY Depth of completed well 5020 feet	Rotary_>	/ Cal	epth 4962 ole Tools		
Water strata depth: Fresh 380 feet; Coal seam depths: 120 & 125	Sait 9	1 being m			N/A
OPEN FLOW DATA Producing formation ORISKANY		Pay zone d	epth 496	2 :	feet bl/d
Gas: Initial open flow 25 Mcf/d		e man obe			bl/d
Time of open flow between in Static rock pressure 420 psig(surf	ace measu	rement) as	fter 72	hours shu	t in
(If applicable due to multiple complete	.on)	Pay zone	depth333	0-4160	feet
Gas: Initial open flow 25 McI/G	d Oil:	Final ope	n flow	N/A	Bbl/d
Final open flow 2/3	nitial an	rement, as			
		(Co	ontirue o	n reverse	siae

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

FRAC-3 STAGES-ORISKANY, SHALE, WEIR-BEREA 07-22-86 FRAC ORISKANY

	07-22-86 FRAC ORISE PERFS	CANY HOLES	BBL	SAND	BD ISIP	N2
RISKA	NY 4962-72	20	750	50,000 20/40	3300 2700	
HALE	08-12-86 FRAC SHALI 3331-4161 Huren	E 72	270	60,000	2365 1450	721,000
EIR { BEREA	09-25-86 FRAC WEIR		350	60,000	3400 1700	690,000

WELL LOG

THE OF COMM	TOP FEET BOT	REMARKS FROM FEET Including indication of all fresh
OCK RED HARD OCK BROWN MED OAL BLACK MED OAL BLACK HARD MED OAL BLACK HARD OFT MED OAL BLACK HARD MED OAL BROWN MED OAL BLACK HARD MED OAL BLA	0 12 120 125 160 180 187 380 950 1050 1210 1385 1425 1490 1650 2130 3330 4770 4920 5063	12 120 125 160 165 187 380 950 1025 GAS CK @ 1515 SHOW OIL 950 1025 1140 1335 GAS CK @ 2150 250 MCF 1425 1460 1650 1690 2145 4770 4840 4940
\$13 329\$		

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY
Well Operator
R. Athantan Vice President
By: Benjamin A. HARDESTA OCTOBER 22, 1986
Date:

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including enal, encountered in the drilling of a well."