

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

AUG 16 90

Well Operator's Report of Well Work

Farm name: UNDERWOOD, CLIFFORD	Operator	Well No.: 2	2- 464-s	
LOCATION: Elevation: 902.00 Quad	rangle: SI	HIRLEY		
District: GRANT Latitude: 13300 Feet Sou Longitude 2785 Feet Wes	th of 39	ounty: DODDI Deg. 25Min Deg. 45 Min	. 0 Sec.	
Company: STONEWALL GAS COMPANY 909 E. MAIN ST. P.O. BOX 1575 RICHMOND, VA 23219-1575	&	Used in		Cement Fill Up Cu. Ft.
Agent: JESSE A. SHELL	Size		-	
Inspector: MIKE UNDERWOOD Permit Issued: 06/11/90 Well work Commenced: 07/11/90	11 3/4	128	128	65 SKS
Well work Completed: 07/16/90 Verbal Plugging Permission granted on:	8 5/8	1094	1094	220 SKS
Rotary X Cable Rig Total Depth (feet) 5100 Fresh water depths (ft) 75'	4 1/2	5046	5046	710 SKS
Salt water depths (ft) 904				
Is coal being mined in area (Y/N) ? N Coal Depths (ft) : N/A	essocios distinuos s			
OPEN FLOW DATA				
Producing formation BENSON Gas: Initial open flow * MCF Final open flow 1555 MCF Time of open flow between i Static rock Pressure 1650 psi	//d Fi nitial and	inal open fl d final test	flow N/A Low N/A I HR	Bbl/d Bbl/d Hours
Second producing formation Gas: Initial open flow MCF Final open flow MCF Time of open flow between i Static rock Pressure psi UNABLE TO DETERMINE DUE TO LARGE OPE	nitial and g (surface	d final test e pressure)	flow low	Bbl/d Bbl/d Hours
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WEL	FOLLOWING , PHYSICA GEOLOGICA	G: 1). DETA AL CHANGE,	ETC. 2).	THE WELL
For: STONEWA	LL GAS CON	MPANY		

By: PETROLEUM ENGINEER
Date: AUGUST 13, 1990

STAGE 1 ZONES	FRAC WATER PERFS		DATE 07-2		
ZONES	PERFS		HOLES	BB	L BP ISIP
BENSON	4912-4918		18	75	0 1800 2120
FORMATION	COLOR		HARD/SOFT	TOP	BOTTOM REMARKS
SOIL	BROWN	SOFT	0	15	
SAND & SHALE	GRAY	SOFT	15	50	1/2" H ₂ 0 @ 75'
SAND	BROWN	HARD	. 50	75	
SHALE	GRAY	HARD	75	150	HOLE DAMP @ 904
SAND & SHALE	BROWN	HARD	150	192	C 7 0 1
RED ROCK	RED	HARD	192	205	GAS CK @ 1895 16/10 2" W/W
SAND	BROWN	SOFT	. 205	420	GAS GK @ 2020 40/10 2" W/M
SAND & SHALE	GRAY	SOFT	420	558	
COAL	GRAY	SOFT	558	562	GAS CK 2081 50/10 2" W/M
SAND	GRAY	SOFT	562	585	
SAND & SHALE	GRAY	HARD	585	970	GAS CK 2428 50/10 2" W/M
SAND	BROWN	HARD	970	9.90	- ,
SAND & SHALE	BROWN	HARD	990	1165	GAS CK 3019 22/10 2" W/M
SHALE	GRAY	HARD	1165	1280	GAS CK 4046 20/10 2" W/M
SAND & SHALE	GRAY	SOFT	1280	1725	,
SAND	BROWN	SOFT	1725	1733	GAS CK TD 24/10 2" W/M
SHALE & RR	BROWN	SOFT	1733	1786	, ,
LITTLE LIME	GRAY	SOFT	1786	1797	
SHALE	GRAY	SOFT	1797	1820	
BIG LIME	BROWN	HARD	1820	1892	
BIG INJUN	BROWN	SOFT	1892	2037	
SAND & SHALE	GRAY	SOFT	2037	2585	
GORDON	GRAY	SOFT	2585	2605	
SAND & SHALE	GRAY	SOFT	2605	4445	
RILEY	GRAY	SOFT	4445	4484	
SAND & SHALE	GRAY	SOFT	4484	4920	
BENSON	BROWN	HARD	4920	4935	
SAND & SHALE TD	BROWN	HARD	4935 5100	5100	

\(\frac{1}{2}\)

FORM WW-2B

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

1) Well C	perator:_	STONEWA	ALL GAS COI	MPANY 4785	(3) (06
						levation: 902'
			or G			
●*	(b)	If Gas:	Production Dec	on/ Underg	round Storag	ge/
5) Propose	ed Target	Formatio	n(s):BI	enson 435		
6) Propose	ed Total I	Depth:5	100'	feet	· .	
		•			150', 260'	<i>\.</i>
8) Approxi	mate salt	water de	epths:	N/A OK		
-			oths:	91		Mandania di Andrea (Mandania di Antonia di Antonia (Mandania di Antonia di Antonia di Antonia di Antonia di An
				011	ive mine? V	es/ No_X_/
			LL & STIMU			es
12)	·			100	www.	
	१५ ३ ५० ^{(*}	CASIN	G AND TUB	ING PROGRAM		
TYPE	5	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		27#	130'	130' CTS	
resh Water				1.00 mg	*	FOR MU
Coal						
ntermediate	8 5/8"		20#	1088'	1088' CTS	38CSR18-11.2 ~
roduction	4 1/2"		10.5#	5030'	5030'	38CSR18-11.1
ubing				·		
iners	0				-	ECE
ACKERS : Kin					<i>D,</i>	Vision of
	es ths set _				1418	21
6 3.	Fo	z Divison	of Oil a	nd Gas Use	Only	Ges Constitution
Fee(s) p	2jg: 4Z	I wan no	rk Permit	A Recl	amation fund	WPCP

	Page	1 of			1)	Date: MA	Y 21, 1990	
		WW2-A			2)	Operator	's well number	
	(09/8	37)				NOINU	MATIONAL BANK #2 (464-S)
	File	Copy			3)	API Well	No: 47 - 017 -	- 3826
							State - County -	- Permit
							DP	EIVED
				STATE OF				Eliza
			DEPARTMENT	OF ENERGY	, DIV	VISION OF	OIL AND GAS Ovision	or ED
							MAY	of Energy
			NOTICE AND	APPLICATI	ON FO	R A WELL	WURK PERMIT	7 0-
	4.1	C				<i>-</i> .	oal Operator: Gas	· · · · · · · · · · · · · · · · · · ·
	4)		wner(s) to b CLIFFORD UNI			5) (a) C	oal Operator: "	ung
			C/O DONNA TH			Name	N/A	-Section-
			PO BOX 51			Address		
			SHIRLEY, WV		········	(b) Co.1	Owner(s) with Dec	11-x-+:
			DIIIIIDI, WV				SEE ATTACHED SHEE	
		Address						
		(c) Name				Address		
		Address				Name		
			······································			Address		,

	6)	Inspector	MIKE UNDER	WOOD		(c) Coal	Lessee with Decla	aration
		Address	RT 2 BOX 135				N/A	
			SALEM, WV 26	1426				
		Telephone	(304)- 782	2-1043		:		
			TO THE PERSO	N(S) NAME	ED ABO	VE TAKE	NOTICE THAT:	•
	•			_				
		Included	is the lease	or lease	esor	other co	ntinuing contract	or
	CONT	racts by w	nich i nold	the right	: to 6	extract o	il and gas <u>OR</u>	•
	Sect	included	f the Code of	mation re	equire	d by Cha	pter 22B, Article	1,
	3 C C . C .	I cortifu	that as roc	or wear and	regin	a (see p	age 2) B of the <u>West Vir</u> c	
	T has	ve served	conies of th	is notice	rer Ci	apter 22	ion, a location pl	arnia code
	3000	mpanving d	ocuments nac	see 1 thro	nah.	appileat	e above named part	iat, and
	~~~~		onal Service				e above named part	res, by:
		X Cert	ified Mail (	Postmarke	ed nos	tal rece	ipt attached)	
		Publ	ication (Not	ice of Pu	ıblica	tion att	ached)	
		I have re	ad and under	stand Cha	apter	22B and	38 CSR 11-18, and	I àgree
	to the	he terms a	nd condition	s of any	perm	t issued	under this applic	cation.
		I certify	under penal	ty of lav	v thại	: I have	personally examine	ed and am
	fami:	liar with	the informat	ion submi:	itted	on this	application form a	and all
	atta	chments, a	nd that base	d on my i	nqui	y of tho	se individuals imm	nediately
	respo	onsible fo	r obtaining	the infor	rmatio	n, I bel	ieve that the info	ormation
	is t		ate, and com					
		l am awar	e that there	e are sign	nifica	int penal	ties for submittir	
	:							ng false
_				possibil	lity o	of fine a	nd imprisonment.	ng false
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