

* ** OFFICE OF OIL AND GAS

UD-May-94 API # 47- 95-01617

State of West Virginia AUG 23 1994 Division of Environmental Protection Section of Oil and Gas

WV Division of well Operator's Report of Well Work **Environmental Protection**

Farm name: CUMBERLEDGE, JACOB A

Operator Well No.: 1 664-S

LOCATION:

Elevation: 921.00

Quadrangle: SHIRLEY

District: Latitude:

MCELROY County: TYLER 10035 Feet South of 39 Deg. 25Min. 10935 Feet West of 80 Deg. 45 Min. Sec. Longitude

Company:STONEWALL GAS COMPANY 909 E. MAIN ST., P.O. BOX 1575 RICHMOND, VA 23213-0000	&	 Used in Drilling		Fill Up
Agent: JESSE A. SHELL				
Inductor, MIVE UNDERWOOD	Size			
Inspector: MIKE UNDERWOOD Permit Issued: 05/13/94 Well work Commenced: 06/18/94 Well work Completed: 06/29/94	11_3/4_	103 	 	65 SKS
Verbal Plugging	8 5/8	1055	1055	270 SKS
Permission granted on: Rotary X Cable Rig Total Depth (feet) 5097 Fresh water depths (ft) 58	4 1/2	5019	5019	800 SKS
Salt water depths (ft) NONE REPORTED	·		<u> </u> 	
Is coal being mined in area (Y/N)? N Coal Depths (ft): NONE REPORTED		 	 	

OPEN FLOW DATA

Producing formationBENSON	
Gas: Initial open flow * MC	F/d Oil: Initial open flow 0 Bbl/d
Final open flow 1710 MC	F/d Final open flow 0 Bbl/d
Time of open flow between	initial and final tests 1 Hours
Static rock Pressure 1250 ps:	ig (surface pressure) after 168 Hours
Gas: Initial open flow * MC Final open flow COMMINGLEMC Time of open flow between	Pay zone depth (ft) 4500 F/d Oil: Initial open flow 0 Bbl/d F/d Final open flow 0 Bbl/d initial and final tests 1 Hours ig (surface pressure) after 168 Hours W FROM KEENER

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

 $\mathcal{OO}_{\mathcal{N}}$ Date: JULY 15, 1994

RAY M. FREAR, JR. PETROLEUM ENGINEER

200 2 6 1994

2	STAGES	WATER	FRAC	07/07/94		DATE	
	ZONES	PERFS	HOLES		BBL	BP	ISIP
BENS	ON	4939-4943	16	700		1865	1776
RILE	CY	4500-4528	16	700		2727	1650

FORMATION	COLOR	HARD/SC	יים	TOP	вотто	M	DE	MARK	<u> </u>		
TOMATION	COLOR	IIAND/ 3C	7. 1	101	вотто	1,1	KE	ANAIM	<u>5</u>		
SHALE & RR	BROWN	SOFT	0	40	GAS	CK	a	1866	NO SHOW	J	
RR & SAND	GRAY	SOFT	40	123					100/10		W/M
SAND & SHALE	BROWN	HARD	123	225					28/10	7"	W/W
SHALE, SAND, RR	BROWN	HARD	225	718					24/10	ź"	W/W
SAND & SHALE	GRAY	SOFT	718	836					22/10	7 "	W/W
WHITE SAND	WHITE	SOFT	836	866					22/10	7"	W/W
BLACK SHALE	BLACK	HARD	866	873	ı				20/10	7"	W/W
SAND & SHALE	GRAY	HARD	873	968					12/10	ź"	•
RR & SHALE	GRAY	SOFT	968	984					10/10	7"	W/W
SAND & SHALE	BROWN	SOFT	984	1060	ı				10/10	7"	W/W
SHALE & SAND	BROWN	SFOT	1060	1120					•	·	,
SANDY SHALE	GRAY	HARD	1120	1390							
WHITE SAND	WHITE	HARD	1390	1494							
SAND & SHALE	GRAY	SOFT	1494	1548							
SAND	GRAY	SOFT	1548	1593							
SAND & SHALE	GRAY	SOFT	1593	1654							
WHITE SAND	WHITE	HARD	1654	1747							
SAND & SHALE	GRAY	HARD	1747	1815							
BIG LIME	GRAY	HARD	1815	1894							
SHALE	GRAY	SOFT	1894	1900							
BIG INJUN	GRAY	SOFT	1900	2015							
SAND & SHALE	BROWN	SOFT	2015	3515							
SAND	GRAY	HARD	3515	3540							
SAND & SHALE	GRAY	HARD	3540	4470							
SAND	GRAY	SOFT	4470	4500							
SHALE & SAND	GRAY	SOFT	4500	4920							
BENSON	GRAY	HARD	4920	4924							
SAND & SHALE	GRAY	HARD	4924	5097							
TD			5097								

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1)	Wed le ope	rator: . S	Stonewall	۶۴۲ Gas Compa	my 47856	(5)	601
2)	Operator	's Well N	Number:	Jacob #1	(664-S)	3) El	evation: <u>921</u>
4)	Well typ	oe: (a) (0i1_/	or Ga:	s <u>X</u> /		
		(b) I	If Gas:		n_X/ Undergr p/	ound Storag Shallo	e/ w <u>X</u> /
83	Proposed	l Target F	Formation	(s):	Benson 435		
1908	Proposed	l Total De	pth: 507	0'	feet		
	Approxim	ate fresh	water s	trata dep	ths: 30', 1	20', 200', 4	20'
	Approxim	ate salt	water de	pths:	N/A		
	 Approxim	ate coal	seam dep	ths:	N/A		
10).						ve mine? Y	es/ No_X
11)	•				nulate New W		
12)							
			CASIN	G AND TUB	ING PROGRAM	i	
						· . ·	•
<u>TYPE</u>		SF	PECIFICAT	IONS	FOOTAGE IN		CEMEN
TYPE				Weight	FOOTAGE IN	Left in	Fill-up
		Size	PECIFICAT Grade	Weight per ft.	FOOTAGE IN	Left in well	Fill-up
Cond	uctor			Weight	FOOTAGE IN	Left in	Fill-up (cu. ft. CSR 38 18-11.1
<u>Cond</u> Fres	uctor h Water	Size		Weight per ft.	FOOTAGE IN	Left in well	Fill-up (cu. ft. CSR 38 18-11.1
Cond Fres	uctor h Water	Size 11 3/4"		Weight per ft. 27#	FOOTAGE IN For drilling	Left in well	Fill-up (cu. ft. CSR 38 18-11.1
Cond Fres Coal	uctor h Water rmediate	Size 11 3/4" 8 5/8"	Grade	Weight per ft. 27#	FOOTAGE IN For drilling 100'	Left in well 100'	Fill-up (cu. ft. CSR 38 18-11.1 CSR 38 18-11.2.2 CSR 38
Cond Fres Coal Inte Prod	uctor h Water rmediate	Size 11 3/4"		Weight per ft. 27#	FOOTAGE IN For drilling	Left in well	Fill-up (cu. ft. CSR 38 18-11.1 Zo.k Mike CSR 38 18-11.2.2
Cond Fres Coal Inte Prod	uctor h Water rmediate uction	Size 11 3/4" 8 5/8"	Grade	Weight per ft. 27#	FOOTAGE IN For drilling 100'	Left in well 100'	Fill-up (cu. ft. CSR 38 18-11.1 CSR 38 18-11.2.2 CSR 38
Cond Fres Coal Inte Prod Tubi	uctor h Water rmediate uction nq rs ERS : Kin	Size 11 3/4" 8 5/8" 4 1/2"	Grade J-55	Weight per ft. 27#	FOOTAGE IN For drilling 100'	Left in well 100'	Fill-up (cu. ft. CSR 38 18-11.1 CSR 38 18-11.2.2 CSR 38
Cond Fres Coal Inte Prod Tubi	uctor h Water rmediate uction nq rs ERS : Kin	Size 11 3/4" 8 5/8" 4 1/2" d.es.eths set	Grade J-55	Weight per ft. 27# 20# 10.5#	FOOTAGE IN For drilling 100'	Left in well 100' 1040' 5000;	Fill-up (cu. ft. CSR 38 18-11.1 CSR 38 18-11.2.2 CSR 38

	1 of	Én si) Date: AP	RIL 19, 1994
	WW2-A	177	2) Operator'	s well number
(10-	91)			<u>JACOB #</u>) API Well	1 (664-S)
		T 35) API Well	No: 47 - 095 - 1617
		製印で、人			State - County - Permit
	•	•	STATE OF	WEST VIRGINIA	
	DIVISIO	ON OF ENVIRO	NMENTAL PR	OTECTION, OFF	ICE OF OIL AND GAS
		NOTICE AND	APPLICATIO	N FOR A WELL	WORK PERMIT
4)	Surface Ow	mer(s) to b	e served.	5) (a) Co	oal Operator:
•		JACOB A. C			
	Address	HCR 74 BOX	106	Address	
		ALMA, WV 2	6320		
	(b) Name _			(b) Coal	Owner(s) with Declaration
	Address			_ Name <u>SAM</u>	E AS SURFACE
	(C) Namo			Address _	
	Address			Name	
				Address	
6)	Inspector	MIKE UNDER	MOOD		Lessee with Declaration
		RT 2 BOX 1		_ Name <u>N/</u>	<u>A</u>
	Tolophone	SALEM, WV	26426 1042	Address	
	rerephone	(304) - 782-	1043	_	
		TO THE PERSO	N(S) NAME	ABOVE TAKE	NOTICE THAT!
	•			J. LOGVE TIMES I	torrea mar.
	Included i	s the lease	or leases	or other con	tinuing contract or
cont:	racts by wh	ich I hold	the right	to extract oi	l and gas OR
X	Included i	s the inform	mation req	uired by Chap	ter 22B, Article 1,
sect.	ion 8(d) of	the Code o	f West Vir	ginia (see pa	ge 2)
T has	r certify	chat as req	ulrea unae is potiso	r Chapter 22B	of the West Virginia Code
accor	mpanving do	cuments page	es 1 throu	and application	on, a location plat, and above named parties, by:
	Perso	nal Service	(Affidavi	t attached)	above named parties, by:
	X Certi	fied Mail (Postmarked	postal recei	pt attached)
	Publi	cation (Not	ic <mark>e</mark> of Pub	lication atta	ched)
+ +1	1 have rea	d and under	stand Chap	ter 22B and 3	8 CSR 11-18, and I agree
נט נו	le terms an	d conditions	s of any p	ermit issued	under this application.
fami	liar with t	he informati	ion submit	that I have po	ersonally examined and am pplication form and all
attac	chments, an	d that base	d on my in-	guiry of those	e individuals immediately
respo	onsible for	obtaining t	the inform	ation, I belie	eve that the information
is t	rue, accura	te, and comp	plete.		
	I am aware	that there	are signi	ficant penalt:	ies for submitting false
TUIO	rmation, in	cluding the	possibili	ty of fine and	d imprisonment.
} ,	2	AL NOTARY PUBLIC E	ell Operat		LL GAS COMPANY
- }		- **をタレータジンで、4かえ - ******	ts:	PRESID	B.A. HARDESTY
\$	(語) 》	THE TOLLING A	dress	PO DRAWER R	ENI
\$	Ma Cara	~ ~~ ~~ 26373		TANE LEW WY	26378
	***************************************	Expires Mar. 14, 2000 Fe SWOYN DETOTE	elephone _	304-884-7881	
oups0	ribed and	sworn before	e me this	19 THday of _	APRIL , 19 92
1	F. W.	Junear J			Notary Public
My co	ommission e	xpires 1	MARCH 14,	2000	NOCATY PUBLIC