

NOV 28 1988

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Pate NOVEMBER 11, 1988

Operator's

371**-**S Farm API No. 47 - 095 **-**1264

## State of Mest Hirginia Well No. AMOS KEYS

DEPARTMENT OF ENERGY Gil und Ges Bivision

## WELL OPERATOR'S REPORT

#### OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

			•	
WELL TYPE: Oil / Gas X/ Liquid Injection (If "Gas," Production / Undergro	n_/ Wast	e Disposa	1/	
LOCATION: Elevation: 026	war owtag	e/ Dee	p/ Sha	$\pi_1 \infty \overline{X} \setminus \emptyset$
LOCATION: Elevation: 926 Watershed District: CENTERVILLE CONTRACTOR	CAMP MIS	TAKE RUN	-	
District: CENTERVILLE County TYLE	<u> </u>	Quadrangl	e WEST U	NION 7.5
				<u> </u>
COMPANY STONEWALL GAS COMPANY				
ADORESS PO DRAWER R, JANE LEW, WV 26378	0-4		f	Cement
DESIGNATED AGENT CHARLES W. CANFIELD	Casing	Used in		fill up
ADDRESS PO DRAWER R, JANE LEW, WV 26378	Tubing	Drilling	in Well	Cu. ft.
SURFACE CANER ERNEST R. ROWAND	Size   20-16			
ADDRESS BOX 493, NEWELL, WV 26050	Cord.			
MINERAL RIGHTS OWNER PAUL HYLBERT	13-10"	88,8	88.8	65 SKS
ADDRESS 11 MIDDLE MARSH RETREAT, SAVANNAH,	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK GA 31411	8 5/8	1226	1226	300 SKS
ROBINSON ADDRESS RT 1, MINERAL WELLS, W	<b>7</b>			
PERMIT ISSUED 10-21-88 20150	5 1/2			
DRILLING COMMENCED 11-01-88	4 1/2	4988	4988	675 SKS
DRILLING COMPLETED 11-06-88	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	23/8	18	4794	
CONTINUOUS PROGRESSION FROM DRILLING OR REPORKING. VERBAL PERMISSION OBTAINED	Liners			
CH	used			
GEOLOGICAL TARGET FORMATION BENSON		Dood	F 5000	
Depth of completed well 5922 feet 1	Rotane Y	ept	5200	feet
Water strata depth: Fresh 90 feet;	Salt	_/ Cabie	110012	
	Is coal i			
OPEN FLOW DATA			a m me	area?X
Dondundan farmalia			•	
Producing formation BENSON	Pay	zone dept	h 4802	feet
Gas: Initial open flow 105 Mcf/d	Oil: Init	tial open	flow N/A	Bb1/d
Final open flow [501] Mcf/d	Fina	il open fl	ow_ N/A	Bb1/d
this of oben flow petween initial	ial and fir	al tests	240 ba	<b>1</b> ~e
Static rock pressure 1450 psig(surface	a usasme	ent) after	120 hou	rs shut in
(If applicable due to multiple completion.	)			
Second producing formation RILEY	Pay	zone dept	h 4380	feet
Gas: Initial open flow 31" " Mcf/d	Oil: Init	tial open	flow N/	ABb1/d
Final open flow 1501 Mcf/d Time of open flow between inte	Oil: Fin	11 open fl	w N/A	Bb1/d
Time of open flow between init	rat and in	nai tests	240 ho	urs.
Static rock pressure 1450 psig (surface	DEC 2 19	nc) arter NAA	120 hou	rs short in
	SEO N IV	(Contin	me on rei	verse side

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

BENSON 4804-4811 3 HOLES/FT 20,000 # (80-100) SAND 800 BBLS,
60,000 # (20-40) SAND 30# GEL, H<sub>2</sub>0 4384-4390 3 HOLES/FT RILEY 20,000 # (80-100) SAND 700 BBLS, 30# GEL, H<sub>2</sub>0

60,000 #

(20+40) SAND

BIG INJUN 1900-1921 2 HOLES/FT RAN TUBING PACKER AT 2021 FT. TO ISOLATE BIG INJUN, AT EQUITRAN S REQUEST, FOR STORAGE FIELD OBSERVATION. BIG INJUN WILL NOT BE PRODUCED.

#### WELL LOG

		7	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all frest
FK-GL CLEAR DIRT BROWN SUFT SAND & SHALE GRAY MED COAL BLACK SOFT SAND & SHALE GRAY MED SAND WHITE HARD RED ROCK RED SOFT SAND & SHALE GRAY MED RED ROCK RED SOFT SAND & SHALE GRAY MED RED ROCK RED SOFT SAND & SHALE GRAY MED RED ROCK RED SOFT SAND & SHALE GRAY MED RED ROCK RED SOFT SAND & SHALE GRAY MED SAND & SHALE GRAY MED SAND WHITE HARD SHALE GRAY SOFT SAND LT GRAY HARD SHALE GRAY SOFT COAL BLACK SOFT SAND GRAY HARD SHALE GRAY MED BIG LIME LT GRAY HARD INJUN LT GRAY HARD INJUN LT GRAY HARD SAND & SHALE GRAY MED GORDON GRAY MED GORDON GRAY MED SAND & SHALE GRAY SOFT RILEY GRAY MED SAND & SHALE GRAY SOFT RILEY GRAY MED SAND & SHALE GRAY MED SAND & SHALE GRAY MED SAND & SHALE GRAY SOFT RILEY GRAY MED SAND & SHALE GRAY MED BENSON BROWN MED SAND & SHALE GRAY SOFT	0 8 13 33 36 100 152 164 227 240 290 306 325 335 421 452 526 540 1350 1355 1400 1760 1822 1941 2500 2535 3277 4358 4414 4802 4817	8 13 36 100 152 164 227 240 290 306 325 335 421 452 526 540 1350 1355 1400 1760 1822 1941 2500 2535 3208 3277 4358 4414 4802 4817 5022	Including indication of all freshand salt water, coal, oil and gas  HOLE DAMP @ 430  GAS CK @ 1814 NO SHOW  GAS SHOW @ 1887  GAS CK @ 1941 102/10 1" H20  GAS CK @ 2626 140/10 1" H20  GAS CK @ 4896 100/10^1½" H20  LOG TOPS  BIG LIME 1749  BIG INJUN 1834  WEIR 2100  BEREA 2302  GORDON 2500  RILEY 4337  BENSON 4796
NOV 28 1988		ŀ	

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY Well Operator

VICE PRESIDENT

Note: Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic distolled our logical record of all formations, including ": of a well."

DEC 2 1988

# Issued 10/21/88 Expres Page of 10/21/9

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

1)	Well Ope	erator:	STONEWAL	L GAS COMP.	ANY 478	50 / 6	50
2)	Operator	r's Well	Number:_	AMOS K	EYS #2 (37	71-S) 3) E	levation: 926'
4)	Well typ	oe: (a)	0il_/	or Ga	s_X/		
		(b)	If Gas:		n <u>X</u> / Underg p <u></u> /	round Storag Shallo	
5)	Proposed	l Target	Formatio	n(s): B	enson 435		
6)	Proposed	l Total D	epth:	5000	feet		1
7)	Approxim	mate fres	h water	strata dep	thș;	54' 549	689 275
8)	Approxim	mate salt	water d	epths:	K 1190'	/	
9)	Approxim	mate coal	seam de	pths:	/ N/A	·	
10)	Does lar	nd contai	n coal s	eams tribu	tary to act	ive mine? Y	/es/ No <u>X</u> /
11)	Proposed	! Well Wo	rk: Os	ill 3 St	imulate.	Their We	U.
12)			CASI	NG AND TUB	ING PROGRAM	. ;	
TYPE		<u> </u>	PECIFICA	TIONS	FOOTAGE I	NTERVALS	CEMENT
of	RAL	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor	11 3/4	ERW	42#	100'	100 7/2 /4	38CSR18-11.3
Fresh	Water					Bout	
Coal					·	mediate to desire	
Inter	mediate	8 5/8	ERW	23#	1250'	1250'	38CSR18-11.3
Produ	ction	4 1/2	ERW	10.5#	4950'	4950'	38CSR18-11.1
Tubin	g						
Liner	S					10/15(	JELV ST
PACKE			<u>.</u>			00	CT 2.0 1988
Sizes							
For Divison of Oil and Gas Use Only							
Fee(s) paid: Well Work Permit Reclamation Fund WPCP							
	Plat	WW-9	WW.	-2B (1) E	Bond 500	Linket-	Agent
//			1	i)		(Type)	

Page	1	of
Form	W	/2-A
(09/8	37	)
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CEIVEN
OCT 20 1988

1) 2)

Date: OCTOBER 10, 1988

Operator's well number
AMOS KEYS #2 (371-S)

API Well No: 47 - 095 - 1269
State - County - Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

3)

### NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)		Owner(s) to be ERNEST R. ROW		5) (a) Coal	Operator	:
		BOX 493	AND	Name N/	<u>A</u>	
	Address .	NEWELL, WV 26	050	Address		
	(b) Name			(b) Copl O	207/7)	41-01
	Address			Name SAME AS	ler(s) Wit Surrace	th Declaration
	_			Address		
	(c) Name					
	Address			Name		
				Address		
		67.70				
6)	Inspector	GLEN P. ROBI	NSON	(c) Coal Les	see with	Declaration
	Address	RT 1, #6 MT. P	<u>LEASANT EST.</u>	Name $N/A$		
	LITINE	AL WELLO, WV Z	ロエンハ	Address		
	relephone	e (304) – 489 <b>–</b>	9162			
		TO THE DEDOCAL	a) waxaa aa			
		TO THE PERSON (	S) NAMED AB	OVE TAKE NOTI	CE THAT:	
	Included	is the lease o	r leason or	othor contin		
contr	acts by w	which I hold th	e right to	other contin	luing cont	ract or
X	Included	is the informa	tion require	ey pa Chapter	ind gas <u>Ob</u>	<u>(</u>
Secti	on 8(d) o	of the Code of	West Virgin	is (see mage	22B, Art	licle 1,
	I certify	that as requi	red under C	nanter 220 of	the West	Virginia Code
I hav	e served	copies of this	notice and	apter 225 or	. the west	virginia Code
accom	panying d	locuments pages	1 through	application,	a locati	on plat, and
	Pers	sonal Service (	Affidavit a	on the at	ove named	parties, by:
	X Cert	ified Mail (Po	stmarked no	tached;		
	Publ	lication (Notic	e of Publica	stion attache	allached)	
					u)	
	I have re	ad and underst	and Chapter	22B and 38 C	'SR 11-18	and I agree
to th	e cerms a	ina conditions	of any perm	it issued und	er thic s	nnliantion
	r certiry	vunder benaltv	of law that	· I have nere	onally or	
ramit	rar wirti	the informatio	n submitted	on this appl	ication f	Form and all
actac	iiments, a	ind that pased	on my inquir	'v of those i	ndividual	e immodiatel.
respo	usible ic	or optaining th	e informatio	n, I believe	that the	information
ID CI	ue, accur	ate, and compl	ete			_
	I am awar	e that there a	re significa	nt penalties	for subm	nitting false
infor	mation, i	neruaing the p	ossibility (	of fine and i	mprisonme	ent.
		Wel	1 Operator	STONEWALL GA	S COMPANY	
		By:	Bein A	Honto		
		Its				
		Add		AWER R		
				LEW, WV 2637	<u>8-0080</u>	
Subsc	ribed and	Tel	ephone 304	-884-7881		
	- V	sworn before	we this With	day of Octo	Spec	, 19 <u>88</u>
,	2 icha	us Kalnin	-H			YXXVVVVVXXVVXXXXXX
Му со	mmission	expires	OCTOBER	14, 1993	<del></del>	<u>AVÓ CATÁN AMANAMAN</u> COMMISSIONER
1 - 5.			COLODLIK	479 4 <i>79</i> 0		COUNTESTONER