

VV

4715'

LATITUDE 39° 22' 30"

Janie 8/8/90

SMITH

STONEPILE

S59°E, 713.49'

N26°36'W,  
416.44'

NO. 1

STONE & POST

S89°21'W,  
425.06'

7.5'

N5°30'W,  
1711.88'

S6°W, 2409'

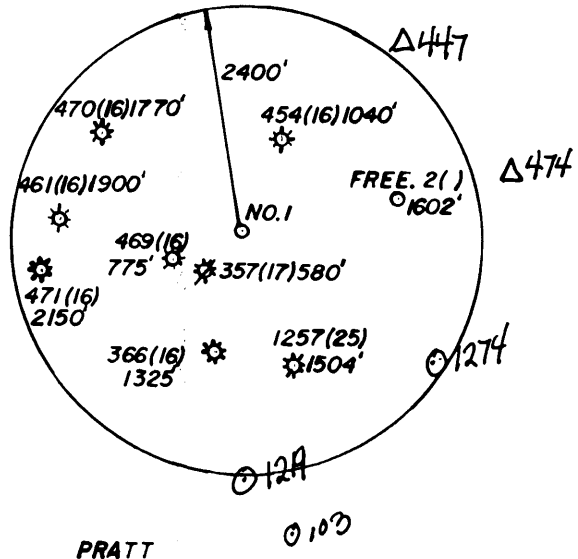
PERKINS

FREEMAN

NORTH

BAGLEY

PRATT



WELL REFERENCES:

N32°30'E, 131' TO 8" VIRGINIA PINE  
S65°E, 127' TO 4" RED MAPLE

360 S  
311 W

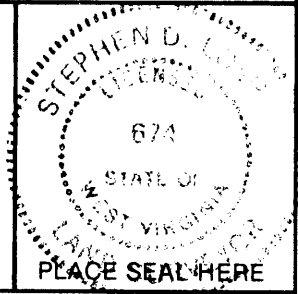
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304 - 842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1685' NW OF LOC. AT ELEV. 1208'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) \_\_\_\_\_

R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE MARCH 21, 19 90  
 OPERATOR'S WELL NO. SINGER 1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1156' WATER SHED CAMP MISTAKE RUN

DISTRICT McELROY 5 COUNTY TYLER

QUADRANGLE WEST UNION 7.5 15 EC

SURFACE OWNER THOMAS E. & RICHARD S. MARTIN ACREAGE 28.99

OIL & GAS ROYALTY OWNER Thomas E. Martin, etal LEASE ACREAGE 30

LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION BENSON ESTIMATED DEPTH 5450'

WELL OPERATOR STONEWALL GAS CO. 847 DESIGNATED AGENT JESSE SHELL

ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R

JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

AUG 17 1990

G-6 Wilbur (092)

LONGITUDE 80° 47' 30"

3900'

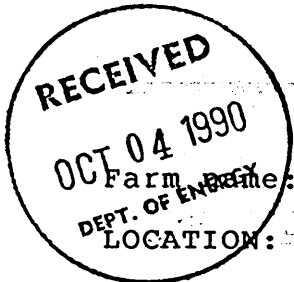
COUNTY NAME

PERMIT

FORM WW-6 HALLS, INC. 068065

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

Well Operator's Report of Well Work



MARTIN, TOM & RICHARD Operator Well No.: SINGER 1

LOCATION: Elevation: 1156.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER  
Latitude: 3900 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 4715 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: STONEWALL GAS COMPANY  
909 E. MAIN ST. P.O. BOX 1575  
RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: GLEN P. ROBINSON  
Permit Issued: 08/16/90  
Well work Commenced: 08-25-90  
Well work Completed: 08-31-90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5225  
Fresh water depths (ft) \_\_\_\_\_  
50  
Salt water depths (ft) \_\_\_\_\_  
130, 240, 628  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	110	110	68 SKS
8 5/8	1311	1311	291 SKS
4 1/2	4715	4715	710 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5058  
Gas: Initial open flow 47 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 3251 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1500 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4631  
Gas: Initial open flow 47 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 3251 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1500 psig (surface pressure) after 168 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.

For: STONEWALL GAS COMPANY

OCT 5 1990

By: Ray M. Frear, Jr. RAY M. FREAR, JR.

Date: OCTOBER 2, 1990 PETROLEUM ENGINEER

STAGE	2	FRAC WATER	DATE	09-11-90				
ZONES		PERFS	HOLES		BBL	BP	ISIP	
BENSON		5058-5062	16		700	2140	1950	
RILEY		4631-4637	18		700	1510	1900	
FORMATION		COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS		
KB-GL		BROWN	SOFT	0	10	1/4" STREAM @ 50'		
RR & SHALE		BROWN	HARD	10	70			
SHALE		GRAY	HARD	70	87	GAS CK @ 2107	NO SHOW	
RR		RED	HAR	87	95			
SAND		TAN	SOFT	95	160	GAS CK @ 2138	NO SHOW	
RR		RED	HARD	160	180	GAS CK @ 2169	NO SHOW	
SAND & SHALE		BROWN	HARD	180	287			
COAL		BLACK	SOFT	287	295	GAS CK @ 2802	NO SHOW	
SAND, SHALE & RR		BROWN	MED	295	371	GAS CK @ 4213	NO SHOW	
SAND		TAN	MED	371	420	GAS CK @ 4589	NO SHOW	
SAND & SHALE		GRAY	HARD	420	575	GAS CK @ 4715	10/10 1" W/W	
SHALE		GRAY	HARD	575	630			
SAND & SHALE		GRAY	SOFT	630	800	GAS CK @ 5094	40/10 1" W/W	
SHALE		GRAY	SOFT	800	845			
SAND, SHALE & RR		BROWN	HARD	845	915	GAS CK @ TD	30/10 1" W/W	
SHALE & RR		BROWN	HARD	915	1250			
SAND & SHALE		BROWN	SOFT	1250	1970	GAS CK DC	20/10 1" W/W	
LIME		GRAY	SOFT	1970	2085			
INJUN		GRAY	SOFT	2085	2196			
SAND & SHALE		GRAY	HARD	2196	2745			
GORDON		BROWN	HARD	2745	2805			
SAND & SHALE		GRAY	SOFT	2805	4595			
RILEY		BROWN	SOFT	4595	4668			
SAND & SHALE		GRAY	SOFT	4668	5030			
BENSON		GRAY	HARD	5030	5050			
SAND & SHALE		GRAY	HARD	5050	5225			
TD				5225				

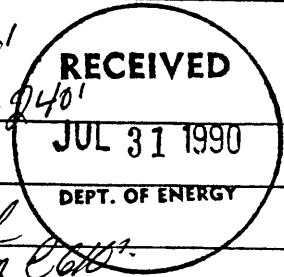
11027

095-1423  
Issued 8/16/90

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

Expires 8/16/92

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (5) 670
- 2) Operator's Well Number: SINGER #1 3) Elevation: 1156'
- 4) Well type: (a) Oil    / or Gas X /  
(b) If Gas: Production    / Underground Storage    /  
Deep    / Shallow X /
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5200' feet
- 7) Approximate fresh water strata depths: 70' *449'*
- 8) Approximate salt water depths: 270' & 630' *240'*
- 9) Approximate coal seam depths: N/A *Possible coal*  
*Benson Coal*
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 11) Proposed Well Work: DRILL & STIMULATE *New Well*
- 12)



CASING AND TUBING PROGRAM

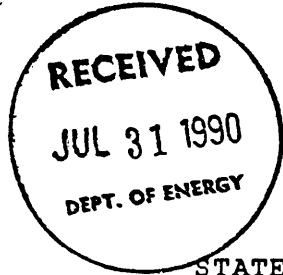
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
<i>4 1/2" 4/8/90</i> Conductor	11 3/4"		28#	100'	<i>C/S 100'</i>	38 CSR 18-11.3
Fresh Water					<i>C/S 1300'</i>	
Coal						
Intermediate	8 5/8"		20#	1300'		38 CSR 18-11.2 <i>2</i>
Production	4 1/2"		10.5#	5150'		38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

6906  
 21 Fee(s) paid: 12 Well Work Permit    Reclamation Fund    WPCP  
   Plat    WW-9    WW-2B    Bond Blanket CO. Agent  
 (Type)

11027



1) Date: JULY 10, 1990  
2) Operator's well number  
SINGER #1 443-S  
3) API Well No: 47 - 095 - 1423  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |  |   |
|--|---|
| <p>4) Surface Owner(s) to be served:<br/>         (a) Name <u>THOMAS E. &amp; RICHARD S.</u><br/>         Address <u>MARTIN</u><br/> <u>RT 1, BOX 99 MIDDLEBOURNE, WV</u><br/>         (b) Name _____ <u>26149</u><br/>         Address _____<br/>         _____<br/>         (c) Name _____<br/>         Address _____<br/>         _____</p> | <p>5) (a) Coal Operator:<br/>         Name <u>N/A</u><br/>         Address _____<br/>         _____<br/>         (b) Coal Owner(s) with Declaration<br/>         Name <u>SAME AS SURFACE</u><br/>         Address _____<br/>         _____<br/>         Name _____<br/>         Address _____<br/>         _____<br/>         (c) Coal Lessee with Declaration<br/>         Name <u>N/A</u><br/>         Address _____<br/>         _____</p> |
| <p>6) Inspector <u>GLEN ROBINSON</u><br/>         Address <u>RT 1, #6 MT PLEASANT EST.</u><br/> <u>MINERAL WELLS, WV 26150</u><br/>         Telephone <u>(304)-489-2736</u></p>  |   |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_ on the above named parties, by:

- \_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator STONEWALL GAS COMPANY  
By: [Signature]  
Its: PRESIDENT  
Address PO DRAWER R  
JANE LEW, WV 26378  
Telephone 304-884-7881

Subscribed and sworn before me this 10TH day of JULY, 1990

[Signature] Notary Public  
My commission expires MARCH 14, 2000