

Jamie 7/3/90

7700' LATITUDE 39° 25' 00"

McCULLOUGH

McINTYRE

PITTS

McINTYRE

F.A. DOTSON 51.75 AC.

REED

1307

472 REED

1408

1393

1392

SANDY NO. 9 1497'

8 (17) 950'

1320(25) 2134'

NO. 8 (REV.)

2400'

1362(25) 2075'

1359(25) 1472'

PITTS NO. 3 2325'

WELL REFERENCES:  
S86°W, 126' TO 14" POPLAR  
N79°E, 142' TO 6" TWIN POPLAR

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

2c

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

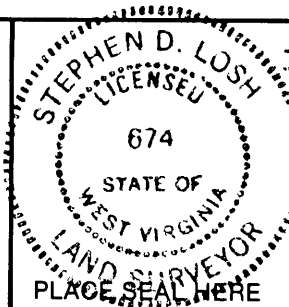
FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION RD. INTER. 1950' S.E.  
OF LOCATION ELEV. - 812'

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) *Stephen D. Losh*

R.P.E. \_\_\_\_\_ L.L.S. 674

STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE APRIL 26, 19 90  
OPERATOR'S WELL NO. SANDY NO. 8 (REV.)  
API WELL NO.

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

LOCATION: ELEVATION 1171' WATER SHED SANDY RUN  
DISTRICT McELROY 5 COUNTY TYLER  
QUADRANGLE SHIRLEY 7.5 min. West Union EC

SURFACE OWNER FRANK A. DOTSON ACREAGE 51.75  
OIL & GAS ROYALTY OWNER WILLIAM SANDY LEASE ACREAGE 637

PROPOSED WORK: DRILL \_\_\_ 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 5500'  
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSIE SHELL  
ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R  
JANE LEW, WV 26378 JANE LEW, WV 26378

JUL 20 1990

FORM WW-6 HALLS, INC. 068065

COUNTY NAME PERMIT

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SEP 21 1990

DEPT. OF ENERGY

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

Well Operator's Report of Well Work

Farm Name: BRADFORD D. REED Operator Well No.: SANDY #8-438-S

LOCATION: Elevation: 1171.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER  
Latitude: 14250 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 7700 Feet West of 80 Deg. 45 Min. 0 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: 07/16/90  
Well work Commenced: 08-01-90  
Well work Completed: 08-07-90  
Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 5350  
Fresh water depths (ft) 50

Salt water depths (ft) 590 & 631

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	127	127	75 SKS
8 5/8	1381	1381	300 SKS
4 1/2	5204	5204	710 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5140  
Gas: Initial open flow 119 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2208 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1650 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4703  
Gas: Initial open flow 119 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2208 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1650 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

By: *[Signature]* PETROLEUM ENGINEER  
Date: SEPTEMBER 10, 1990

OCT 1 1990

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SEP 21 1990

STAGE 2      FRAC      WATER      DATE      08-22-90

ZONES	PERFS	HOLES	BBL	BP	ISIP
BENSON	5140-5146	18	700	1810	1700
RILEY	4703-4707	16	600	1950	1490

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
KB-GL	BROWN	SOFT	0	10	
SOIL & SHALE	BROWN	SOFT	10	25	DAMP 50'
SAND	BROWN	SOFT	25	95	DAMP @ 590'
RR & SHALE	GRAY	HARD	95	135	1/4 TO 1/2" STREAM
SAND & SHALE	GRAY	HARD	135	155	
RR	RED	HARD	155	172	HOLE DAMP @ 1725
SHAKE & RR	GRAY	SOFT	172	207	
SAND & SHALE	GRAY	SOFT	207	227	GAS CK 2145 40/10 2"
RR	RED	HARD	227	235	W/W
SAND	BROWN	SOFT	235	244	
RR	BROWN	HARD	244	260	OIL @ 2150
RR & SHALE	BROWN	HARD	260	314	GAS CK 2177 35/10 2"
SAND & SHALE	GRAY	SOFT	314	335	W/W
SAND	GRAY	SOFT	335	365	GAS CK 2273 32/10 2"
RR & SHALE	GRAY	HARD	365	615	W/W
SAND	GRAY	SOFT	615	700	GAS CK 2872 24/10 2"
SAND & SHALE	GRAY	HARD	700	946	W/W
RR	RED	HARD	946	949	GAS CK 4734 18/10 2"
SAND & SHALE	BROWN	HARD	949	1105	W/W
SHALE & RR	BROWN	HARD	1105	1325	GAS CK 5176 16/10 2"
SAND & SHALE	GRAY	SOFT	1325	1448	W/W
SAND	BROWN	SOFT	1448	1465	GAS CK TD 8/10 2" W/W
SAND & SHALE	GRAY	SOFT	1465	1592	
SAND	BROWN	SOFT	1592	1641	
SAND & SHALE	GRAY	HARD	1641	2056	
B. LIME	GRAY	HARD	2056	2132	
SAND & SHALE	GRAY	SOFT	2132	2137	
INJUN	BROWN	HARD	2137	2271	
SAND & SHALE	GRAY	SOFT	2271	2360	
SAND	BROWN	SOFT	2360	2550	
SAND & SHALE	GRAY	SOFT	2550	2830	
SAND	BROWN	SOFT	2830	2870	
SAND & SHALE	GRAY	HARD	2870	3501	
SAND	BROWN	HARD	3501	3545	
SAND & SHALE	GRAY	HARD	3545	4671	
RILEY	BROWN	SOFT	4671	4732	
SAND & SHALE	BROWN	SOFT	4732	5350	
TD			5350		

10855

Issued 7/16/90  
 Expired 7/16/92  
 47-095-1409

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

- 1) Well Operator: STONEWALL GAS COMPANY <sup>47850</sup> ~~47800~~ (5) 670
- 2) Operator's Well Number: SANDY #8 3) Elevation: 1171
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
 (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_  
 Deep \_\_\_ / Shallow X
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5300' feet
- 7) Approximate fresh water strata depths: 70', 121'
- 8) Approximate salt water depths: 400' & 530' OK
- 9) Approximate coal seam depths: 310'
- 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>4/30/90 SAR</i> Conductor	11 3/4"		28#	100'	100' CTS	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1300'	1300' CTS	38 CSR 18-11.2.2
Production	4 1/2"		10.5#	5250'	5250'	38 CSR 18-11.1
Tubing						
Liners						

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

**RECEIVED**  
 Division of Oil and Gas  
**JUN 25 90**  
 Permitting  
 Oil and Gas Section

For Division of Oil and Gas Use Only

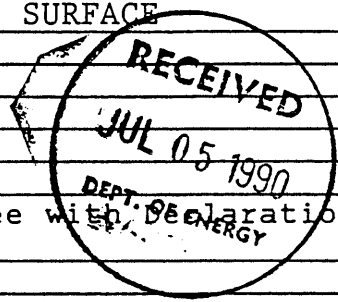
Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPCP

1) Date: JUNE 26, 1990  
2) Operator's well number  
SANDY #8 438-S  
3) API Well No: 47 - 095 - 1409  
State - County - Permit

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

4) Surface Owner(s) to be served:  
(a) Name FRANK A. DOTSON ET UX  
Address 514 RAYMER BLVD  
TOLEDO, OHIO 43605  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector GLEN P. ROBINSON  
Address RT 1 #6 MT PLEASANT EST.  
MINERALWELLS, WV 26150  
Telephone (304)- 489-2736

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name SAME AS SURFACE  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_



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: *Becky A. Harvath*  
Its: PRESIDENT  
Address PO DRAWER R  
JANE LEW, WV 26378  
Telephone 304-884-7881

Subscribed and sworn before me this 26TH day of JUNE, 1990

*Dorothy L. Quinn* Notary Public  
My commission expires MARCH 14, 2000