

DEC 30 1994 Division of Environmental Protection
Section of Oil and Gas

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

Farm name: UNDERWOOD, SHIRL Operator Well No.: SHIRL #2-675-S

LOCATION: Elevation: 990.00 Quadrangle: CENTER POINT

District: MCCLELLAN County: DODDRIDGE
Latitude: 13590 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 9715 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: STONEWALL GAS COMPANY

909 E. MAIN ST., P.O. BOX 1575
RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 07/21/94
Well work Commenced: 10-10-94
Well work Completed: 10-25-94
Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5230
Fresh water depths (ft) 50, 85, 200

Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 71, 76, 311, 412

Size	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	113	113	113	65 SKS
8 5/8	1323	1323	1323	290 SKS
4 1/2	5214	5214	5214	155 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4992-5000
Gas: Initial open flow 119 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1102 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1700 psig (surface pressure) after 168 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ 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]* B. A. HARDESTY

Date: DECEMBER 27, 1994 PRESIDENT

DATE 12/27/94

STAGES

ONE

FRAC

WATER

DATE

11/17/94

ZONES

PERFS

HOLES

BBL

BP

ISIP

3ENSON

4992-5000

16

796

1825

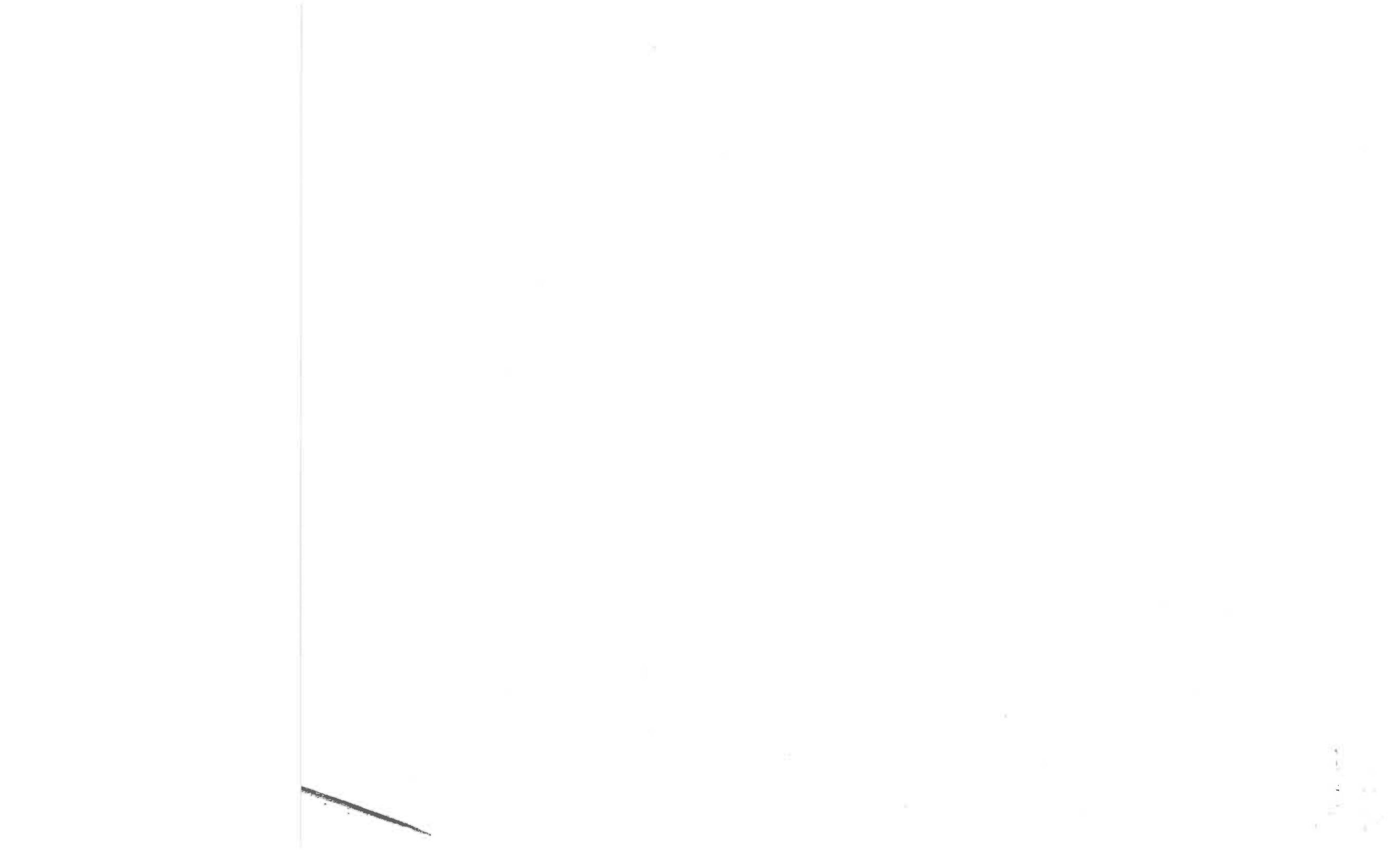
1829

FORMATION	COLOR	HARD	SOFT	HARD/SOFT	TOP	BOTTOM	REMARKS
KT	BROWN	SOFT	0	10	10		
ALE	GRAY	HARD	10	15	15		
ND	BROWN	SOFT	15	53	53		
ALE	GRAY	SOFT	53	56	56		
ND	GRAY	HARD	56	69	69		
ALE	GRAY	HARD	69	71	71	GAS CK @	1775 140/10 2" W/W
AL	BLACK	SOFT	71	73	73		1900 100/10 2" W/W
ALE	GRAY	SOFT	73	76	76		2086 44/10 2" W/W
AL	BLACK	SOFT	76	80	80		2242 36/10 2" W/W
ND	BROWN	SOFT	80	85	85		2796 22/10 2" W/W
ND	BROWN	HARD	80	85	85		2892 60/10 2" W/W
ALE	GRAY	HARD	85	88	88		3261 46/10 2" W/W
ND	BROWN	SOFT	88	130	130		3852 20/10 2" W/W
ND & SHALE	BROWN	SOFT	130	142	142		4520 20/10 2" W/W
ND & SHALE	GRAY	SOFT	142	170	170		
ND & SHALE	GRAY	HARD	170	311	311		
AL	BLACK	SOFT	311	315	315		
ND & SHALE	GRAY	HARD	315	330	330		
ND	BROWN	SOFT	330	358	358		
ALE	BROWN	SOFT	358	367	367		
ND & SHALE	BROWN	SOFT	367	375	375		
ND & RR	RED	HARD	375	380	380		
ND & SHALE	GRAY	HARD	380	412	412		
AL	BLACK	SOFT	412	415	415		
ND & SHALE	GRAY	HARD	415	457	457		
ALE	GRAY	HARD	457	469	469		
ND	BROWN	SOFT	469	506	506		
NDY SHALE	GRAY	HARD	506	512	512		
ND	GRAY	HARD	512	555	555		
ALE	GRAY	SOFT	555	563	563		
ND	BROWN	SOFT	563	584	584		
ALE	GRAY	HARD	584	591	591		
ND	BROWN	HARD	591	610	610		
ND & SHALE	GRAY	SOFT	610	690	690		
& SHALE	GRAY	SOFT	690	730	730		
ND & SHALE	BROWN	SOFT	730	1289	1289		
ND & SHALE	BROWN	HARD	1289	1310	1310		
ND	GRAY	HARD	1310	1339	1339		
ND & SHALE	GRAY	HARD	1339	1366	1366		
ND	GRAY	SOFT	1366	1790	1790		
ND & SHALE	BROWN	HARD	1790	1823	1823		
ME	BROWN	SOFT	1823	1920	1920		
ND	GRAY	SOFT	1920	1947	1947		
LIME	GRAY	HARD	1947	1970	1970		
CAVE	GRAY	SOFT	1970	2038	2038		
LIME	GRAY	SOFT	2038	2067	2067		
JUN	BROWN	HARD	2038				

SAND & SHALE	GRAY	HARD	2067	2740
GORDON	GRAY	HARD	2740	2755
SAND & SHALE	BROWN	SOFT	2755	4590
RILEY	GRAY	SOFT	4590	4600
SAND & SHALE	BROWN	SOFT	4600	5050
BENSON	BROWN	HARD	5090	5095
SANDY SHALE	GRAY	HARD	5095	5230
TD				5230

GAS CK @ 4666 18/10 2" W/W
 5139 14/10 2" W/W
 5233 10/10 2" W/W
 COLLARS 8/10 2" W/W

July 4 1995



017-4141

Page of
07/21/94
Issued
07/21/96
Expires

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

WELL WORK PERMIT APPLICATION

WV 05

Permitting
Well Operator:

847
Stonewall Gas Company

47850
286

19436

Operator's Well Number: Shirl #2 (675-S) 3) Elevation: 990'

Well type: (a) Oil / or Gas X /

(b) If Gas: Production X / Undergound Storage /
Deep / Shallow X /

- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5230' feet
- 7) Approximate fresh water strata depths: 20', 470', 560'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 410'

- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Drill and Stimulate new gas well.

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"		27#	100'	100'	CSR 38 18-11.1
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1100'	1100'	CSR 38 18-11.2.2
Production	4 1/2"	J-55	10.5#	5180'	5180'	CSR 38 18-11.3
Tubing						
Liners						

PACKERS : Kind

Sizes

Depths set

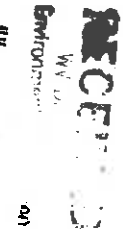
For Division of Oil and Gas Use Only

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

Plat WV-9 Bond Agent

8263
24

21



1) Date: JUNE 30, 1994
2) Operator's well number SHIRL #2 (675-S)
3) API Well No: 47 - 017 - 4141
State - County - Permit

Office of Oil & Gas STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name SHIRL UNDERWOOD
Address STAR RT BOX 106
WEST UNION, WV 26456

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304) - 782-1043

(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

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)

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.



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
DOROTHY QUEEN
POST OFFICE DRAWER R
JANE LEW, WV 26378
My Commission Expires Mar. 14, 2000

Well Operator STONEWALL GAS COMPANY B. A. HARDESTY
BY: _____
Its: _____
Address _____
PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881
Subscribed and sworn before me this 30TH day of JUNE, 19 94

Dorothy Queen Notary Public
My commission expires _____ MARCH 14, 2000