

(+) 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 ROAD INT. 2170' SW. AT ELEV. 828'

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 MAY 12, 19 91
 OPERATOR'S WELL NO. PEARLENE 1
 API WELL NO. 47-095-1514
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1075' WATERSHED JEFFERSON RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 W. Union PC
 SURFACE OWNER PEARLINE UNDERWOOD & BLAINE UNDERWOOD EST. ACREAGE 104.73 ACR
 OIL & GAS ROYALTY OWNER TAYLOR UNDERWOOD HRS. LEASE ACREAGE 127.
 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 5200'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSE SHELL
 ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 6-6 Wilbur (092) JANE LEW, WV 26378-0080

FORM WW-6

COUNTY NAME PERMIT

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: UNDERWOOD, PEARLINE Operator Well No.: PEARLINE#1-604S

LOCATION: Elevation: 1075.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 9150 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 5700 Feet West of 80 Deg. 47 Min. 30 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: 11/23/92
Well work Commenced: 12/16/92
Well work Completed: 01/15/93
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5230
Fresh water depths (ft) 150

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	43	43	NONE
8 5/8	1216	1216	310 SKS
4 1/2	5184	5184	715 SKS

Salt water depths (ft) NONE REPORTED

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 70, 926

OPEN FLOW DATA

Producing formation BENSON/RILEY Pay zone depth (ft) 4617
Gas: Initial open flow 42 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1205 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 _____ 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

Reviewed TMB
Recorded _____

By: [Signature] RAY M. FREAR, JR.
Date: FEBRUARY 22, 1993 PETROLEUM ENGINEER

1	STAGES	WATER	FRAC	01-26-93	DATE	
ZONES	PERFS	HOLES	BBL	BBP	ISIP	
BENSON/RILEY	434 4617	1	700	2060	1650	
	434 4640-4642	2				
	435 5040-5044	16				

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
S.B.T.G	BROWN	SOFT 0	10		
SHALE & SAND	GRAY	HARD 10	70		GAS CK @ 1835 NO SHOW
COAL	BLACK	SOFT 70	74		1929 NO SHOW
SHALE, SAND & RR	GRAY	HARD 74	610		1960 "
SAND & SHALE	GRAY	SOFT 610	829		1991 "
SAND, SHALE & RR	GRAY	HARD 829	926		2023 "
COAL	BLACK	SOFT 926	930		2054 "
SHALE & SAND	BROWN	HARD 930	1912		2085 ODOR
L. LIME	BROWN	HARD 1912	1935		2116 NO SHOW
SAND & SHALE	GRAY	SOFT 1935	1950		2147 "
B. LIME	GRAY	SOFT 1950	2054		2177 "
SHALE & SAND	GRAY	HARD 2054	2072		2208
B. INJUN	BROWN	HARD 2072	2170		2801 2/10 2" W/W
SHALE & SAND	GRAY	HARD 2170	2522		4017 2/10 2" W/W
SHALE	GRAY	SOFT 2522	2615		4608 2/10 2" W/W
SHALE & SAND	BROWN	SOFT 2615	3825		5044 3/10 2" W/W
SHALE	GRAY	SOFT 3825	3986		
SHALE & SAND	GRAY	HARD 3986	5040		
BENSON	GRAY	HARD 5040	5045		
SAND & SHALE	GRAY	SOFT 5045	5230		
TD			5230		

DF - 924

DF - 435

14571

095-1514
 Issued 11/23/92
 Expires 11/23/94
 Page of

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

- 1) Well Operator: 847 STONEWALL GAS COMPANY 47550 (5) 606
- 2) Operator's Well Number: PEARLENE #1 (602-S) 3) Elevation: 1075'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5230 feet
- 7) Approximate fresh water strata depths: 60', 340' 390' and 440'
- 8) Approximate salt water depths: 1900'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		27#	100'	100'	CSR 38 18-11.1
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1000'	1000'	CSR 38 18-11.2.2
Production	4 1/2"	J-55	10.5#	5170'	5170'	CSR 38 18-11.3
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

1843/36

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent

NOV 0

- 1) Date: NOVEMBER 3, 1992
- 2) Operator's well number
PEARLINE #1 (604-S)
- 3) API Well No: 47 - 095 - 1514
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 PEARLINE UNDERWOOD
Address RT 2 BOX 385
SISTERSVILLE, WV 26175
 - (b) Name BLAINE UNDERWOOD EST.
Address C/O GEORGE BERKLEIN JR.
21 OXFORD ST., SISTERSVILLE, WV
 - (c) Name _____
Address _____
- 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 _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

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:

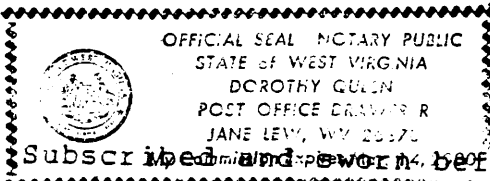
- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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: B.A. HARDESTY
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881



Subscribed and sworn to before me this 3RD day of NOVEMBER, 1992

Dorothy Gulen
My commission expires MARCH 14, 2000 Notary Public