



WELL REFERENCES:
 N36° E, 103.50' TO 8" C.OAK
 S68°30' E, 135.50' TO 5" SASSAFRAS

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 800' N.
 OF LOCATION ELEV. - 1097'

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. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE OCTOBER 10, 1994
 OPERATOR'S WELL NO. PEARLINE NO. 2
 API WELL NO.

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

LOCATION: ELEVATION 1053' WATER SHED MORRISON RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 min. WU EL

SURFACE OWNER PEARLINE & BLAINE UNDERWOOD ACREAGE 104.73
 OIL & GAS ROYALTY OWNER TAYLOR UNDERWOOD HEIRS 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 6642 JANE LEW, WV 26378

COUNTY NAME
 PERMIT

JAN 09 1995

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

WV Division of Environmental Protection
Well Operator's Report of Well Work
Farm name: UNDERWOOD, PEARLINE ETAL. Operator Well No.: PEARLINE#2-684S

LOCATION: Elevation: 1,053.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 8490 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 4380 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: 10/20/94
Well work Commenced: 11/10/94
Well work Completed: 11/16/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5175
Fresh water depths (ft) 96, 935

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	131	131	55 SKS
8 5/8	1054	1054	230 SKS
4 1/2	5134	5134	730 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5028-5034
Gas: Initial open flow 119 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1476 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1450 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4598-4629
Gas: Initial open flow * MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow * MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests * Hours
Static rock Pressure * psig (surface pressure) after * Hours

*COMMINGLED

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: B. A. Hardesty B. A. HARDESTY
Date: JANUARY 3, 1995 PRESIDENT

2	STAGES	H2O	FRAC	11-30-94	DATE			
ZONES	PERFS	HOLES	BBL	BP	ISIP			
BENSON	5028-5034	18	600	1670	1609			
RILEY	4598-4629	18	600	2922	1861			

FORMATIONS	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS			
DIRT	BROWN	SOFT	0	5				
SANDY SHALE	GRAY	SOFT	5	20				
SAND	BROWN	SOFT	20	52				
SHALE	GRAY	HARD	52	82				
SAND	BROWN	HARD	82	86	GAS CK @ 1928	NO SHOW		
RR & SHALE	GRAY	HARD	86	96	2020	NO SHOW		
SAND	BROWN	SOFT	96	153	2052	NO SHOW		
SAND & SHALE	GRAY	SOFT	153	355	2113	7/10	2"	W/W
RR	RED	HARD	355	374	2176	10/10	2"	W/W
SAND	BROWN	HARD	374	420	2269	10/10	2"	W/W
RR	RED	HARD	420	431	2798	10/10	2"	W/W
SAND & SHALE	BROWN	SOFT	431	454	2894	10/10	2"	W/W
RR	RED	SOFT	454	694	4493	6/10	2"	W/W
SAND & SHALE	GRAY	SOFT	694	715	4647	8/10	2"	W/W
RR	RED	HARD	715	730	5052	8/10	2"	W/W
SAND	GRAY	HARD	730	770	5175	8/10	2"	W/W
RR	RED	HARD	770	781				
SHALE	GRAY	HARD	781	812				
RR	RED	SOFT	812	820				
SAND & SHALE	BROWN	SOFT	820	865				
RR	RED	HARD	865	874				
SAND	BROWN	HARD	874	936				
RR	RED	SOFT	936	966				
SAND & SHALE	GRAY	SOFT	966	997				
RR	RED	HARD	997	1001				
SAND & SHALE	GRAY	HARD	1001	1114				
SAND	BROWN	SOFT	1114	1133				
SAND & SHALE	BROWN	SOFT	1133	1862				
SHALE & RR	GRAY	HARD	1862	1905				
LITTLE LIME	GRAY	HARD	1897	1928				
BIG LIME	BROWN	SOFT	1928	2088				
PENCIL CAVE	BROWN	SOFT	2088	2100				
INJUN SAND	GRAY	SOFT	2100	2153				
SANDY SHALE	GRAY	HARD	2153	2176				
SAND & SHALE	GRAY	HARD	2176	2245				
SHALE	GRAY	HARD	2245	2715				
GORDON	BROWN	SOFT	2715	2725				
SAND & SHALE	BROWN	SOFT	2725	4610				
RILEY	BROWN	SOFT	4610	4620				
SAND & SHALE	GRAY	HARD	4620	5020				
BENSON	GRAY	HARD	5020	5025				
SAND & SHALE	BROWN	HARD	5025	5175				
TD			5175					

OCT 14 1994

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

Issued 10/20/94
Expires 10/26/96

Permitting Office of Oil & Gas

- 1) Well Operator: Stonewall Gas Company 47850 (S) 607
- Operator's Well Number: Pearline #2 (684-S) 3) Elevation: 1053'
- Well type: (a) Oil / or Gas x/
- (b) If Gas: Production x/ Underground Storage /
Deep / Shallow x/
- Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5170 feet
- 7) Approximate fresh water strata depths: 40', 150'
- 8) Approximate salt water depths: n/a
- 9) Approximate coal seam depths: 50', 920'
- 10) Does land contain coal seams tributary to active mine? Yes / No x/
- 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#	120'	<u>C/S</u> 120'	38 CSR 18-11. <u>3</u>
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1040'	<u>C/S</u> 1040'	38 CSR 18-11.2.2
Production	4 1/2"	J-55	10.5#	5120'	5120'	38 CSR 18-11. <u>1</u>
Tubing						
Liners						

Steve Casey

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only

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

Plat WW-9 WW-28 Bond Blanket Agent

19896

RECEIVED
WV Division of
Environmental Protection
OCT 14 1994

- 1) Date: OCTOBER 11, 1994
- 2) Operator's well number
PEARLINE #2 (684-S)
- 3) API Well No: 47 - 095 - 1625
State - County - Permit

**Permitting
Office of Oil & Gas**
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 C/O JANICE WELLS
RT 2 BOX 385 SISTERSVILLE, WV 26175
 - (b) Name ROBERT UNDERWOOD
Address 228 MARKIN AVE. LANCASTER,
PA 17602 KATHELENE BERKLEIN
 - (c) Name 21 OXFORD ST., SISTERSVILLE,
Address WV 26175
- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name SAME AS SURFACE
Address _____
 - Name _____
Address _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304)- 782-1043
- (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: [Signature] B. A. HARDESTY
 Its: PRESIDENT
 Address PO DRAWER R
JANE LEW, WV 26378
 Telephone 304-884-7881

Subscribed and sworn before me this 11TH day of OCTOBER, 19 94

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

