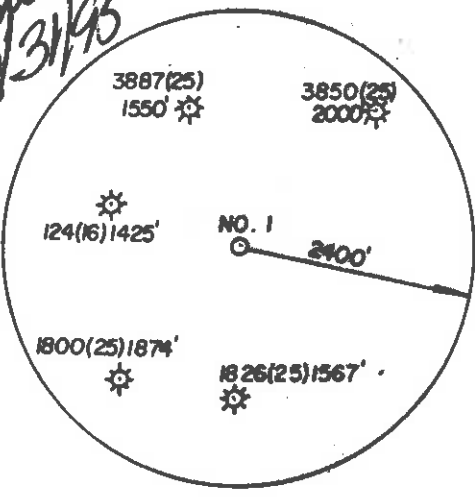


LATITUDE 39° 22' 30"

LONGITUDE 80° 42' 30"

*Janice*  
*10/31/95*



STICKEL

CARROLL

*0.945*  
*0.00*

GAETAN & MARY E. MARIN  
59.75 AC.

NORTH

5/8" IRON PIN

S50°45' W, 2326.25'

N80°44'45"E 2035.98'

S36°27' W  
567.66'

N49°30'E, 1080.75'

N85°35' W, 1677.27'

5/8" IRON PIN

FLINT

HEINELMAN

HAUGHT

N55E  
107.25'

EAST  
297'

N59°30'E  
206.25'

*3825*  
*2230*

WELL REFERENCES:

N60W, 124' TO 5" RED MAPLE  
S77E, 144' TO 8" CHESTNUT OAK

(+) 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 ROAD JCT. 2200' SW AT 793'

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) J. Michael Evans  
 R.P.E. \_\_\_\_\_ L.L.S. 900



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE JULY 28, 19 95  
 OPERATOR'S WELL NO. CHEST. GROVE CH.  
 API WELL NO. \_\_\_\_\_

47 - 017 - 04226  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1184' WATERSHED FLINT RUN  
 DISTRICT GRANT COUNTY DODDRIDGE  
 QUADRANGLE SMITHBURG

SURFACE OWNER GAETAN & MARY E. MARIN ACREAGE 59.75  
 OIL & GAS ROYALTY OWNER GAETAN & MARY E. MARIN LEASE ACREAGE 59.75

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

WELL ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON ESTIMATED DEPTH 5330'  
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE SHELL  
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R  
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

COUNTY NAME PERMIT

FEB 25 1996

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: MARIN, MARY EDWINA Operator Well No.: Chestnut Grov 1

LOCATION: Elevation: 1,184.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE  
Latitude: 5025 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 0 Feet West of 80 Deg. 42 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: 10/30/95  
Well work Commenced: 11/29/95  
Well work Completed: 12/07/95  
Verbal Plugging  
Permission granted on:  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5373  
Fresh water depths (ft) 170,

Salt water depths (ft) 1551

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 314, 548

Size	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8		1193	1193	277 SKS
4 1/2		5287	5287	128 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5219-5226  
Gas: Initial open flow TSTM MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 120 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 850 psig (surface pressure) after 16 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: John Haskins JOHN HASKINS  
Date: FEBRUARY 15, 1996 SENIOR VICE-PRESIDENT

MAR 4 - 1996

1	STAGES	WATER	FRAC	12/11/95	DATE
ZONES	PERFS	HOLES	BBL	BP	ISIP
BENSON	5219-5226	14	601	1500	2000

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
RR & SHALE	RED	MED	0	15	GAS CK @ 1983 NO SHOW
SAND & SHALE	GRAY	MED	15	53	2289 NO SHOW
SAND & RR	GREY RED	MED	53	62	2444 NO SHOW
SAND & SHALE	GRAY	MED	62	157	2967 4/10 2" W/W
SAND	GRAY	MED	157	232	3248 4/10 2" W/W
SAND & SHALE	GRAY	MED	232	314	3769 2/10 2" W/W
COAL & SHALE	BLACK	SOFT	314	317	4326 22/10 2" W/W
SAND & SHALE	GRAY	MED	317	323	4755 28/10 1" W/W
SAND	GRAY	HARD	323	374	5218 28/10 1" W/W
RR	RED	SOFT	374	382	5373 28/10 1" W/W
SAND & SHALE	GRAY	MED	382	420	DCS 12/10 1" W/W
RR & SHALE	RED GRAY	MED SOFT	420	548	
COAL	BLACK	SOFT	548	552	
RR & SHALE	GRAY RED	MED	552	560	
SAND & SHALE	GRAY	HARD	560	580	
SHALE & RR	GRAY RED	MED	580	625	
SAND & SHALE	GRAY	HARD	625	684	
RR & SHALE	GRAY RED	MED	684	798	
SAND & LIME	GRAY	HARD	798	814	
SAND & SHALE	GRAY	MED	814	944	
RR & SHALE	RED GRAY	MED	944	1018	
SAND & SHALE	GRAY	MED	1018	1052	
RR & SHALE	RED GRAY	MED	1052	1256	
SAND & SHALE	GRAY	MED	1256	1955	
RR	RED	SOFT	1955	1975	
SAND & SHALE	GRAY	MED	1795	2092	
LIME	GRAY	MED	2092	2202	
SAND & SHALE	GRAY	MED	2202	2210	
SAND	GRAY	MED	2210	2268	
SAND & SHALE	GRAY	MED	2268	4670	
RILEY	LT BROWN	MED	4670	4675	
SAND & SHALE	GRAY	MED	4675	5214	
BENSON	BROWN	MED	5214	5218	
SAND & SHALE	GRAY	MED	5218	5373	
TD				5373	

RECEIVED

WV Division of Environmental Protection

017-4226

Page of ...

FORM WW-2B

OCT 12 1995

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permitting WELL WORK PERMIT APPLICATION

Office of Oil & Gas

2-0

47850 (3) 611

- 1) Well Operator: STONEWALL GAS COMPANY (697-S)
- 2) Operator's Well Number: CHESTNUT GROVE CHURCH #1 ..... 3) Elevation: 1184'
- 3) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /  
*435*
- 4) Proposed Target Formation(s): BENSON
- 5) Proposed Total Depth: 5330 feet
- 6) Approximate fresh water strata depths: 100', 810', 1150'
- 7) Approximate salt water depths: N/A
- 8) Approximate coal seam depths: 430', 1080'
- 9) Does land contain coal seams tributary to active mine? Yes  / No  /
- 10) Proposed Well Work: DRILL AND STIMULATE NEW WELL
- 11) Program will be ~~run~~ Run.
- 12) If there is a need to go past elevation a three string casing and tubing program

21207

Issued 10/30/95  
Expires 10/30/97

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		27#	20'	0	38-CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	<u>1180</u> <del>1200</del>	<u>1180</u> <del>1200</del>	38 CSR 18-11.2.2
Production	4 1/2"	J-55	10.5#	5280'	5280'	38 CSR 18-11.1
Tubing						
Liners						

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

For Division of Oil and Gas Use Only

027  
4/3  
Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond  Agent  
 30

RECEIVED

WV Division of Environmental Protection

OCT 12 1995

Permitting Office of Oil & Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Page 1 of Form WW2-A (6/94) File Copy

- 1) Date: OCTOBER 9, 1995
2) Operator's well number CHESTNUT GROVE CHURCH #1 (697-S)
3) API Well No: 47 - 017 - 4226 (State County Permit)

- 4) Surface Owner(s) to be served: (a) Name MARY EDWINA MARIN Address HC 67 BOX 48 WEST UNION, WV 26456
(b) Name Address
(c) Name Address
6) Inspector MIKE UNDERWOOD Address ROUTE 2, BOX 135 SALEM, WV 26426 Telephone (304)-782-1043

- 5) (a) Coal Operator: Name N/A Address
(b) Coal Owner(s) with Declaration Name SAME AS SURFACE 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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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: JOHN HASKINS
Its: VICE PRESIDENT
Address PO DRAWER R JANE LEW, WV 26378
Telephone 884-7881

Subscribed and sworn before me this 10th day of October, 1995

Notary Public My commission expires March 14, 2000



OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA

My Commission Expires March 14, 2000