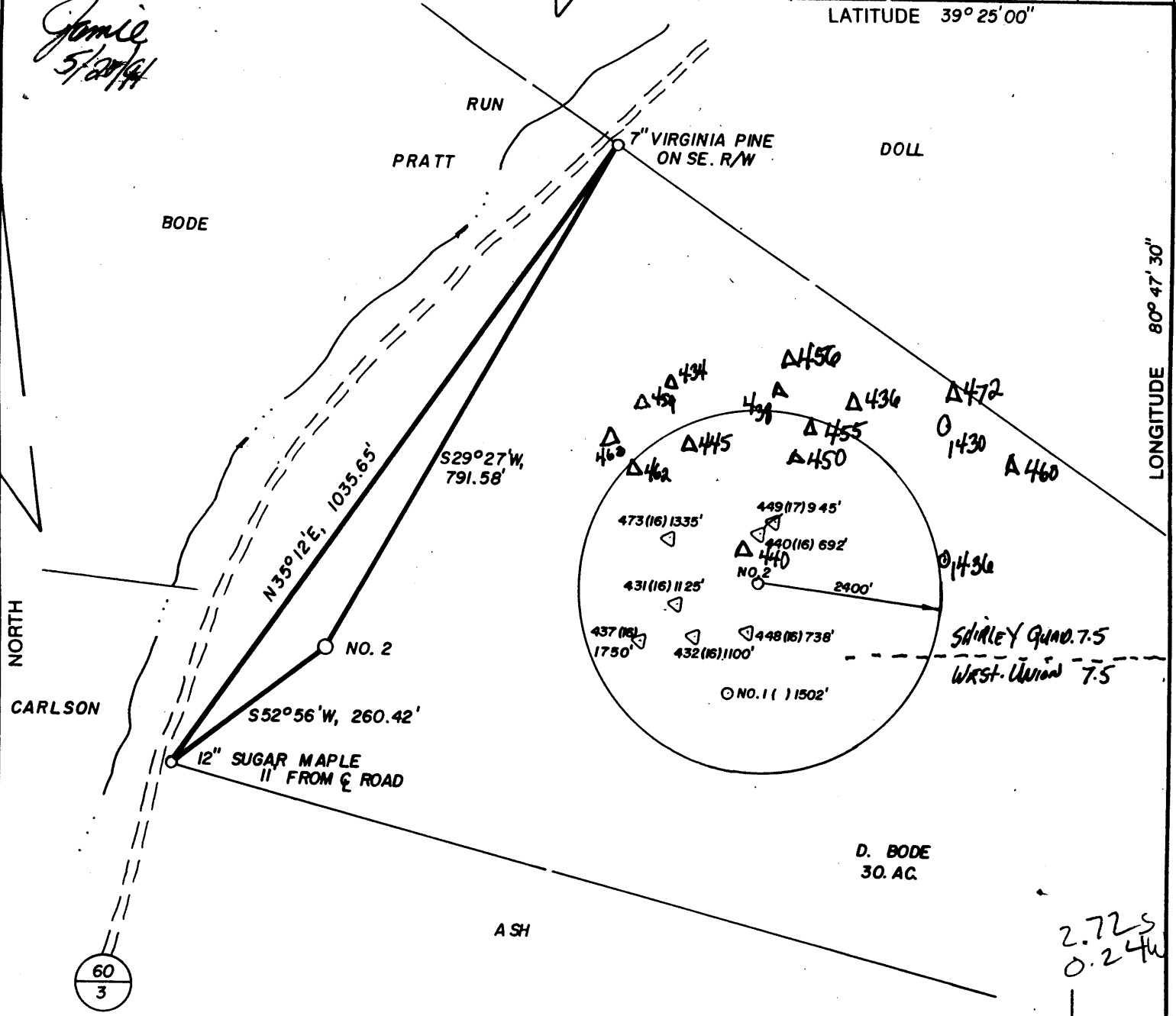


*Janice*  
5/2/94



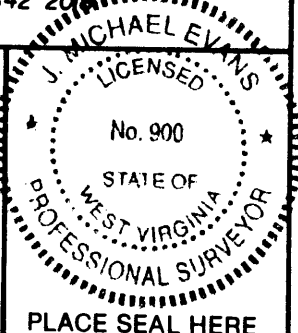
WELL REFERENCES:  
 S25°E, 128' TO 12" VIRGINIA PINE  
 N62°E, 138' TO 12" HICKORY

LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2010

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION ROAD INT. 2700' NE. OF LOC. AT ELEV. 822'

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. NO. 900  
 J. MICHAEL EVANS



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 15, 19 91  
 OPERATOR'S WELL NO. D. BODE 2  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 957' WATERSHED PRATT RUN  
 DISTRICT McELROY 5 COUNTY TYLER  
 QUADRANGLE SHIRLEY 7.5 W Union, E.C.

SURFACE OWNER DOROTHY BODE ACREAGE 30.  
 OIL & GAS ROYALTY OWNER M. SCOTT HRS. LEASE ACREAGE 30.  
 LEASE NO. \_\_\_\_\_

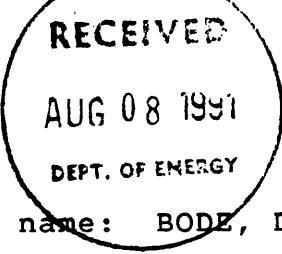
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON ESTIMATED DEPTH 5200'  
 WELL OPERATOR STONEWALL GAS 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

MAY 31 1991

6-6 Wilbur (092)

COUNTY NAME  
 PERMIT



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

Well Operator's Report of Well Work

Farm name: BODE, DOROTHY H. Operator Well No.: BODE 2 (575S)

LOCATION: Elevation: 957.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER  
 Latitude: 14225 Feet South of 39 Deg. 25Min. 0 Sec.  
 Longitude: 1300 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: STONEWALL GAS COMPANY  
909 E. MAIN ST. P.O. BOX 1575  
RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD  
 Permit Issued: 05/27/91  
 Well work Commenced: 06-10-91  
 Well work Completed: 06-19-91  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary x Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 5066  
 Fresh water depths (ft) 55, 160, 770

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	15	15	76sks
8 5/8	1010	1010	26 sks
4 1/2	5007	5007	650 sks

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4914  
 Gas: Initial open flow 14 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 1975 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 RILEY Pay zone depth (ft) 4480  
 Gas: Initial open flow 14 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 1975 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

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] RAY M. FREAR, JR.  
 Date: JULY 22, 1991 PETROLEUM ENGINEER

AUG 16 1991

STAGE	2	FRAC	WATER	DATE	06/27/91	
ZONES	PERFS		HOLES	BBL	BP	ISIP
BENSON	4914-4918		16	600	1650	1700
RILEY	4480-4486		18	600	2480	2450

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
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FILL	BROWN	SOFT	0	3	GAS CK 1899 NO SHOW
SAND & SHALE	BROWN	SOFT	3	10	1929 NO SHOW
RR	RED	SOFT	10	25	1960 NO SHOW
SAND & SHALE	BROWN	SOFT	25	160	1992 4/10 1" W/W
SAND	GRAY	HARD	160	240	2023 10/ 10 1" W/W
SAND & SHALE	GRAY	HARD	240	275	2054 8/10 1" W/W
RR & SHALE	GRAY	SOFT	275	320	2643 4/10 1" W/W
SAND	BROWN	HARD	320	350	GAS CK 3111 2/10 1" W/W
SAND & SHALE	BROWN	HARD	350	770	3576 2/10 1" W/W
SAND	GRAY	HARD	770	805	4201 4/10 1" W/W
SHALE & RR	GRAY	SOFT	805	1195	4510 2/10 1" W/W
SAND & SHALE	BROWN	SOFT	1195	1789	4760 2/10 1" W/W
LITTLE LIME	BROWN	SOFT	1789	1800	TD 4/10 1" W/W
SAND & SHALE	BROWN	HARD	1800	1820	
BIG LIME	GRAY	HARD	1820	1900	
BIG INJUN	GRAY	HARD	1900	2050	
SAND & SHALE	GRAY	SOFT	2050	2590	
ORDON	GRAY	SOFT	2590	2630	
SAND & SHALE	BROWN	HARD	2630	4465	
RILEY	BROWN	HARD	4465	4520	
SAND & SHALE	GRAY	SOFT	4520	4907	
BENSON	GRAY	SOFT	4907	4915	
SAND & SHALE	GRAY	SOFT	4915	5066	
D			5066		

12219

095-1462  
 Issued 5/27/91  
 Page \_\_\_\_ of \_\_\_\_  
 Expires 5/27/93

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

- 1) Well Operator: <sup>847</sup> STONEWALL GAS COMPANY 47850 (5) 606
- 2) Operator's Well Number: BODE #2 (575-S) 3) Elevation: 957'
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
 (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
 Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): <sup>435</sup> BENSON
- 6) Proposed Total Depth: 5060' feet
- 7) Approximate fresh water strata depths: 40' to 240'
- 8) Approximate salt water depths: 1700'
- 9) Approximate coal seam depths: N/A 45' - 12"
- 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 Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"		28#	120'	120'	-
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1000'	1000'	
Production	4 1/2"	J-55	10.5#	5000'	5000'	
Tubing						
Liners						

RECEIVED  
 Division of Energy  
 MAY 07 91

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-2B  Bond C D Blanket  Agent  
 (Type)

222

7255  
 13

RECEIVED

Division of Energy

MAY 07 91

Permitting  
Oil and Gas Section

- 1) Date: MAY 6, 1991
- 2) Operator's well number  
BODE #2 (575-S)
- 3) API Well No: 47 - 095 - 1462  
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 DOROTHY H. BODE  
Address 200 GRAND AVENUE  
WEST UNION, WV 26456
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (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:

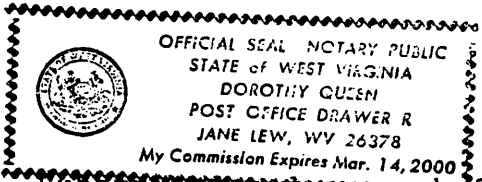
- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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: [Signature]  
Its: PRESIDENT  
Address PO DRAWER R  
JANE LEW, WV 26378  
Telephone 304-884-7881



[Signature] subscribed and sworn before me this 6TH day of MAY, 1991

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