

Camille
15/15/91

LATITUDE 39°22'30"

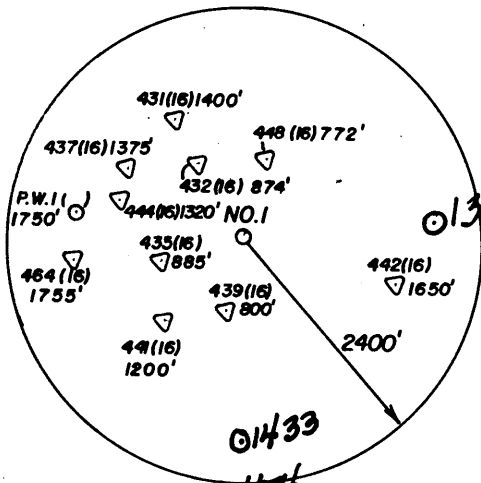
75

CARLSON

PRATT

RUN

ASH



DOROTHY BODE
40. AC

NO. 1

S78°30'W, 381.22'

N56°09'W, 160.20'

STONE WITH
" " FOUND

S88°30'E, 506.78'

STONE WITH "X"
FOUND

NE., 255.75'

LIEBMANN

WELL REFERENCES:

NORTH, 131' TO EAST GATE POST

SOUTH 56° EAST, 160' TO 6" BLACK WALNUT

2.98 S
2.53 W
EC

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-1000

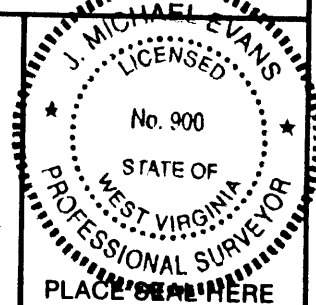
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. JME LLS 900
 DRAWING NO. _____
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 2250'
S. AT ELEV. 1335'

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 1
 API WELL NO. _____

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

LOCATION: ELEVATION 938' WATERSHED PRATT RUN

DISTRICT McELROY 5 COUNTY TYLER

QUADRANGLE WEST UNION 15' EC

SURFACE OWNER DOROTHY BODE ACREAGE 40.

OIL & GAS ROYALTY OWNER M. SCOTT HRS. LEASE ACREAGE 40.

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 847 ADDRESS P. O. DRAWER R

JANE LEW, WV 26378-0080 66 Wilbur (092) JANE LEW, WV 26378-0080

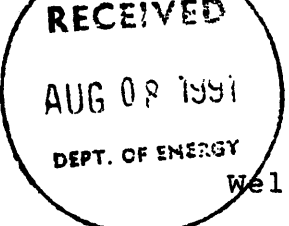
MAY 31 1991

COUNTY NAME

PERMIT

0.10 S
0.3 W
06 47' 30" LONGITUDE

585'



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 1 (574S)

LOCATION: Elevation: 938.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER
Latitude: 585 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 1710 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: 06/19/91
Well work Completed: 06/25/91
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5073
Fresh water depths (ft) 30, 165, 280

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	117	117	76 SKS
8 5/8	1012	1012	266 SKS
4 1/2	5016	5016	660 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4866
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2095 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1575 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4437
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2095 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1575 psig (surface pressure) after 168 Hours

UNABLE TO DETERMINE DUE TO LARGE OPEN FLOW FROM STORAGE SAND.

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

STAGES	2	FRAC	WATER	DATE	07-09-91
ZONES	PERFS	HOLES	BBL	BP	ISIP
BENSON	4866-4870	16	600	1960	-1700
RILEY	4437-4441	16	600	2800	1750
	4455	2			

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
SOFT DIRT	TAN	SOFT	0	20	GAS CK @ 1807 NO SHOW
SAND	GRAY	SOFT	20	35	1838 NO SHOW
SAND & SHALE	GRAY	SOFT	35	125	1869 40/10 7" W/W
RR	RED	HARD	125	132	1900 36/10 7" W/W
SAND & SHALE	BROWN	HARD	132	316	1931 32/10 7" W/W
SHALE	GRAY	SOFT	316	350	
SAND & SHALE	GRAY	SOFT	350	556	
SAND	GRAY	HARD	556	575	
SAND & SHALE	BROWN	HARD	575	670	
SHALE & RR	GRAY	HARD	670	710	
SAND, SHALE & RR	BROWN	HARD	710	837	
SHALE & RR	BROWN	SOFT	837	927	
SAND & SHALE	BROWN	SOFT	927	1380	
SAND	GRAY	SOFT	1380	1435	
SAND & SHALE	GRAY	HARD	1435	1755	
L-LIME	BROWN	HARD	1755	1768	
SAND & SHALE	GRAY	SOFT	1768	1797	
B-LIME	BROWN	HARD	1797	1855	
KENNER	GRAY	SOFT	1855	1876	
INJUN	GRAY	SOFT	1876	2009	
SAND & SHALE	BROWN	HARD	2009	2565	
GORDON	BROWN	HARD	2565	2585	
SAND & SHALE	GRAY	SOFT	2585	4425	
RILEY	GRAY	SOFT	4425	4450	
SAND & SHALE	GRAY	HARD	4450	4880	
BENSON	GRAY	HARD	4880	4890	
SAND & SHALE	GRAY	HARD	4890	5073	
TD			5073		

8/22/81

095-1461
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: 847 STONEWALL GAS COMPANY 47850 (5) 670
- 2) Operator's Well Number: BODE #1 (574-S) 3) Elevation: 938'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5040' feet
- 7) Approximate fresh water strata depths: 40' to 220'
- 8) Approximate salt water depths: 1890'
- 9) Approximate coal seam depths: N/A 25'-12" M.U.?
- 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#	100'	100'	38CSR1811.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1000'	1000'	38CSR1811.22
Production	4 1/2"	J-55	10.5#	4980'	4980'	38CSR1811.1
Tubing						
Liners						

RECEIVED
Division of Energy

MAY 07 91

Permitting
Oil and Gas Section

For Division of Oil and Gas Use Only

7255
13

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

RECEIVED
Division of Energy

Page 1 of _____
Form WW2-A
(09/87)

MAY 07 91
Permitting
Oil and Gas Section

- 1) Date: MAY 6, 1991
- 2) Operator's well number
BODE #1 (574-S)
- 3) API Well No: 47 - 095 - 1461
State - County - Permit

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

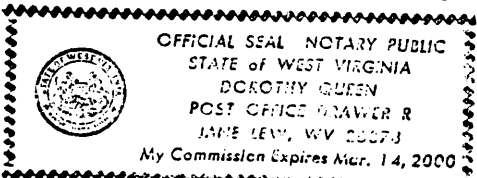
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name DOROTHY H. BODE
Address 200 GRAND AVE.
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 _____
 - (c) Coal Lessee with Declaration
Name _____
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
 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.



Well Operator STONEWALL GAS COMPANY
 By: [Signature]
 Its: PRESIDENT
 Address PO DRAWER R
JANE LEW, WV 26378
 Telephone 304-884-7881

Subscribed and sworn before me this 6TH day of MAY, 19 91

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