



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 2800'
SW. OF LOC. AT ELEV. 1307

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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 LAND SURVEYOR
 NO. 674
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE FEB. 21, 19 89
 OPERATOR'S WELL NO. DOAK 1
 API WELL NO. 47-017-3710
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1021' WATER SHED LITTLE FLINT RUN
 DISTRICT GRANT 3 COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5' 671 133 6 +15' EC

SURFACE OWNER DENZIL SPENCER, ET. UX. ACREAGE 91
 OIL & GAS ROYALTY OWNER A. DOAK LEASE ACREAGE 191
 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 ALEXANDER ESTIMATED DEPTH 5600'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

MAR 31 1989

6-6 Swiger - Flint Run (097)

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: SPENCER, DENZIL Operator Well No.: DOAK 1-394-S

LOCATION: Elevation: 1021.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 4685 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 185 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS CO.
P. O. BOX 1575
RICHMOND, VA 23213-1575

Agent: CHARLES R. CANFIELD

Inspector: MIKE UNDERWOOD
Permit Issued: 03/28/89
Well work Commenced: 04-13-89
Well work Completed: 04-18-89
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 5350
Fresh water depths (ft) 85

Salt water depths (ft) 979

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 287-292

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	173	173	80 SKS
8 5/8	1368	1368	325 SKS
4 1/2	5228	5228	410 SKS

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5050
Gas: Initial open flow 169 MCF/d Oil: Initial open flow NA Bbl/d
Final open flow 1958M MCF/d Final open flow NA Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1650 psig (surface pressure) after 72 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 CO.

By: Benji A. Huntley PRESIDENT
Date: MAY 11, 1989

MAY 26 1989

FRAC ONE ZONE 04-26-89

PERFS	HOLES	BBL	SAND	BD	ISIP
BENSON					
5056-63	21	821	75,000	1950	2050

GROUND LEVEL		SOFT	0	10	
SLATE & RED ROCK	RED	SOFT	10	287	
COAL	BLACK	SOFT	287	292	COAL
SAND & SHALE	GREY	SOFT	292	1370	
SHALE	GREY	SOFT	1370	2030	
BIG LIME	GREY	HARD	2030	2110	1/2" STREAM H ₂ O 979
BIG INJUN	GREY	HARD	2110	2220	
SAND & SHALE	GREY	SOFT	2220	2745	
GORDON	GREY	SOFT	2745	2800	ODOR AT 2045'
SAND & SHALE	GREY	SOFT	2800	4600	
RILEY	GREY	SOFT	4600	4660	GAS CK @ 2050 4/10 1" H ₂ O
SAND & SHALE	GREY	SOFT	4660	5050	
BENSON	BROWN	SOFT	5050	5135	GAS CK @ 2149 8/10 2" H ₂ O
TD				5350	GAS CK @ 2801 20/10 2" H ₂ O
					GAS CK @ 4634 10/10 2" H ₂ O
					GAS TD 16/10 2" H ₂ O

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

MAY 23 1989

5458

017-3710

Revised
Per Mike Underwood
Issued 3/28/89 Expires 3/28/91
Page ___ of ___

FORM WW-2B

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850, 3, 670
- 2) Operator's Well Number: DOAK #1 394-S 3) Elevation: 1021
- 4) Well type: (a) Oil or Gas /
 - (b) If Gas: Production / Underground Storage /
 - Deep Shallow
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5350 feet
- 7) Approximate fresh water strata depths: 120', 278', 770', 766'
- 8) Approximate salt water depths: 1280', 1193', 1693'
- 9) Approximate coal seam depths: N/A 399'-402', 433'-446'
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4	ERW	42#	150	150	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 /58	ERW	23#	1350	1350	38 CSR 18-11.3
Production	4 1/2	ERW	10.5#	5350	5350	38 CSR 18-11.1
Tubing						
Liners						

Cement to surface. } 38 CSR 18-11.2, 2

PACKERS : Kind _____
Sizes _____
Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Plat: WW-9 WW-2B Bond 50 Blanket Agent:

(Type)

6214
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MAR 28 1989

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: MARCH 17, 1989
2) Operator's well number
DOAK #1 394-S
3) API Well No: 47 - 017 - 3710
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 DENZIL SPENCER
Address 3505 BLUEBERRY DRIVE
LAKELAND, FL 33811
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 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 2/3 DENZIL SPENCER
Address 3505 BLUEBERRY DR.
LAKELAND, FL 33811
Name 1/3 CLARENCE MUTSCHELKNAUS
Address PO BOX 351
SALEM, WV 26426
(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:

- X 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 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 17TH day of MARCH, 19 89

[Signature]
My commission expires

OCTOBER 14, 1993

XXXXXXXXXXXXXXXXXXXX
COMMISSIONER