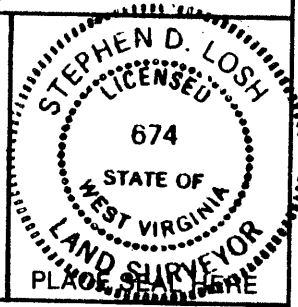


WELL REFERENCES:
 S82°W, 128' TO 22" WH. OAK
 N27°E, 119.5' TO 4" RED MAPLE

(+) 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 2725'
 NE. 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) *[Signature]*
 R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 28, 19 90
 OPERATOR'S WELL NO. WILLIE I
 API WELL NO. 47-017-3857
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1206' WATER SHED CAMP MISTAKE RUN
 DISTRICT WEST UNION 3 COUNTY ROURIDGE
 QUADRANGLE WEST UNION
 SURFACE OWNER GEORGE FREEMAN EST. ACREAGE 94.5
 OIL & GAS ROYALTY OWNER GEORGE FREEMAN HRS. LEASE ACREAGE 94.5
 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 5450'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE SHELL
 ADDRESS P. O. DRAWER R 447 ADDRESS P. O. DRAWER R
 JANE LEW, WV 26378-0080 6-6 Wilbur (092) JANE LEW, WV 26378-0080

OCT 15 1990

FORM WW-6 06805 HALLS INC.

COUNTY NAME PERMIT

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: FREEMAN, GEORGE - ESTATE Operator Well No.: WILLIE 1-484-S

LOCATION: Elevation: 1206.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE
Latitude: 5600 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 7525 Feet West of 80 Deg. 45 Min. 0 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: 10/12/90
Well work Commenced: 05-12-92
Well work Completed: 05-19-92
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5400
Fresh water depths (ft) 60, 120,
504, 840
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	173	173	105SKS
8 5/8	1346	1346	358SKS
4 1/2	5268	5268	830 SKS

OPEN FLOW DATA

Producing formation BENSON/RILEY Pay zone depth (ft) 5164
Gas: Initial open flow 358 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 852 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1275 psig (surface pressure) after 168 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.

RECEIVED
Office of Oil & Gas
JUN 22 1992
WV Division of
Environmental Protection

For: STONEWALL GAS COMPANY

JUN 26 1992

By: Ray M. Frear, Jr. RAY M. FREAR, JR.
Date: JUNE 15, 92 PETROLEUM ENGINEER

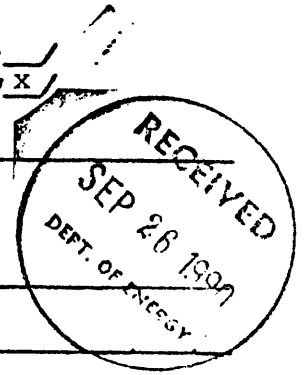
STAGE 1 ZONES	FRAC PERFS	WATER HOLES	DATE	05-27-92	BBL	BP	ISIP
ENSON/RILEY	4725-4727	3					
	5164-5168	16			700	2500	1700

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
SANDY SHALE	BROWN	SOFT	0	50	
SAND	GRAY	SOFT	50	70	GAS CK 2024' NO SHOW
SANDY SHALE	GRAY	HARD	70	220	
RED ROCK	BROWN	HARD	220	275	GAS CK 2149' NO SHOW
SANDY SHALE	BROWN	HARD	275	375	
RR & SHALE	RED	SOFT	375	525	2179' 12/10 1" W/W
SAND & SHALE	GRAY	SOFT	525	838	2210' 12/10 1" W/W
SAND	GRAY	SOFT	838	860	2242' 40/10 1" W/W
SANDY SHALE	BROWN	HARD	860	998	2333' 50/10 1" W/W
RR & SHALE	GRAY	HARD	998	1058	
SAND & SHALE	GRAY	HARD	1058	1308	2891' 20/10 2" W/W
SAND	BROWN	SOFT	1308	1380	
SANDY SHALE	BROWN	SOFT	1380	1930	4631' 6/10 2" W/W
SAND	BROWN	SOFT	1930	1961	5225' 80/10 2" W/W
SANDY SHALE	GRAY	HARD	1961	2047	
.LIME	GRAY	SOFT	2047	2061	TD 42/10 2" W/W
SAND & SHALE	GRAY	HARD	2061	2080	
.LIME	BROWN	SOFT	2080	2174	
SAND & SHALE	BROWN	SOFT	2174	2204	
NJUN	GRAY	SOFT	2204	2238	
SAND & SHALE	GRAY	HARD	2238	2261	
AND	GRAY	HARD	2261	2290	
AND & SHALE	BROWN	SOFT	2290	2825	
AND	GRAY	SOFT	2825	2885	
ANDY SHALE	GRAY	HARD	2885	4710	
ILEY	GRAY	HARD	4710	4725	
AND & SHALE	GRAY	SOFT	4725	5158	
ENSON	BROWN	SOFT	5158	5205	
HALE	BROWN	SOFT	5205	5400	
D			5400		

RECEIVED
 Office of Oil & Gas
 Division of Oil & Gas
 State of Texas

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

- 1) Well Operator: ⁸⁴⁷ STONEWALL GAS COMPANY 4785⁰ (8) 670
- 2) Operator's Well Number: WILLIE #1 (484-5) 3) Elevation: 1206'
- 4) Well type: (a) Oil / or Gas X /
 (b) If Gas: Production X / Underground Storage /
 Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON 425
- 6) Proposed Total Depth: 5350 feet
- 7) Approximate fresh water strata depths: 40', 110', 230' ^{OK}
- 8) Approximate salt water depths: 2060' ^{OK}
- 9) Approximate coal seam depths: N/A ^{OK}
- 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

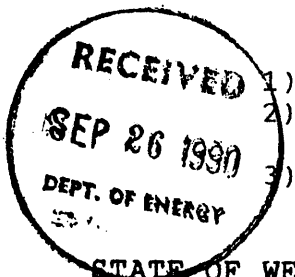
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in. well
Conductor	11 3/4"		32#	130' 170'	130' CTS	38 CSR 18-11.3
Fresh Water						<u>OK MLI</u>
Coal						
Intermediate	8 5/8"		20#	1350'	1350' CTS	38 CSR 18-11.2.2
Production	4 1/2"		10.5#	5250'	5250'	38 CSR 18-11.1
Tubing						
Liners						

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

1973
21



Date: JULY 10, 1990
Operator's well number
WILLIE #1 484-S
API Well No: 47 - 017 - 3857
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 GEORGE FREEMAN EST.
Address 4845 CHANDLERSVILLE RD.
CHANDLERSVILLE, OH 43727
(b) Name C/O GLENN VORE
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name N/A
Address _____

(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE & ANDREW
Address FREEMAN HRS., C/O EDITH SMITH
WHITE, 701 MARYLAND AVE., FAIRMONT, WV
Name CHARLES FREEMAN C/O ALICE M. COX
Address RT 1, BOX 13, PULLMAN, WV
26421

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:

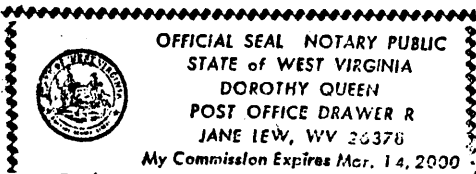
- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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



Subscribed and sworn before me this 10TH day of JULY, 19 90

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