

Janie 8/17/89

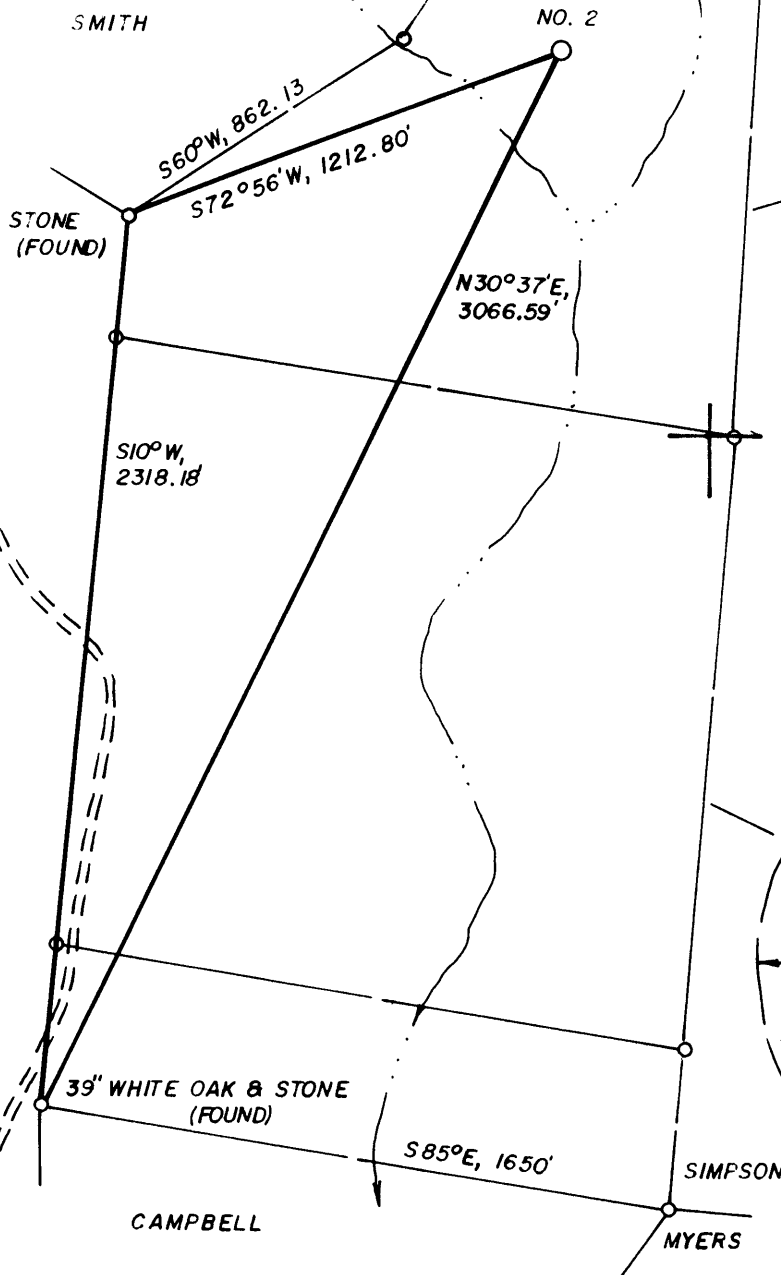
LATITUDE 39°22'30"

WELL REFERENCES:

- N 2°W, 130' TO 14" TRIPLE WH. OAK
- N 40°E, 155' TO 10" TRIPLE SCARLET OAK

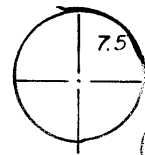
NORTH

MARTIN



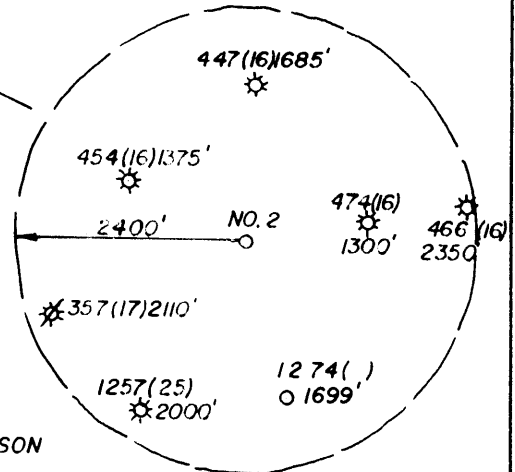
KEYS

WEEKLEY



3.52S  
2.82W

WEEKLEY



LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

(+) 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 2000 NE  
OF LOC. 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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF ENERGY.  
(SIGNED) [Signature]  
R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE MARCH 27, 19 89  
OPERATOR'S WELL NO. FREEMAN 2  
API WELL NO.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 967' WATERSHED CAMP MISTAKE RUN  
DISTRICT McELROY S COUNTY TYLER  
QUADRANGLE WEST UNION 7.5' 671 1336 ± 15' EC  
SURFACE OWNER AUBRA B. FREEMAN ACREAGE 34.34  
OIL & GAS ROYALTY OWNER E.M.B. KEYS LEASE ACREAGE 110.  
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 5250'  
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD  
ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R  
JANE LEW, WV 26378-0080 847 JANE LEW, WV 26378-0080

SEP 1 1989

6-6 Wilbur (692)

FORM WW-6  
H. HALL

COUNTY NAME  
PERMIT

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

Well Operator's Report of Well Work

Farm name: FREEMAN, AUBRA G. JR. Operator Well No.: FREEMAN 2-398-S  
LOCATION: Elevation: 967.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER  
Latitude: 3600 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 3120 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: CHARLES R. CANFIELD

Inspector: GLEN P. ROBINSON  
Permit Issued: 08/28/89  
Well work Commenced: 01/14/91  
Well work Completed: 01/19/91  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5050  
Fresh water depths (ft) 45'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	127	127	65 SKS
8 5/8	1214	1214	270 SKS
4 1/2	5025	5025	710 SKS

Salt water depths (ft) 215

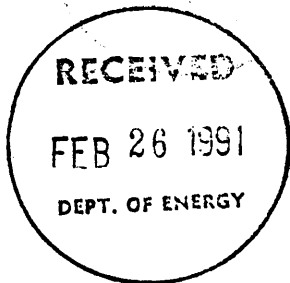
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): NONE REPORTED

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4878  
Gas: Initial open flow 133 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2705 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1625 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4450  
Gas: Initial open flow 133 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2075 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1625 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.

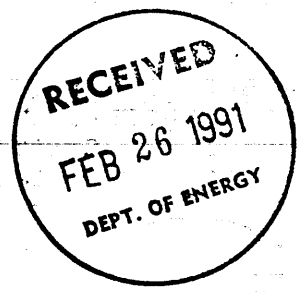


For: STONEWALL GAS CO.

By: Ray M. Frear, Jr. RAY M. FREAR, JR.  
Date: FEBRUARY 21, 1991 PETROLEUM ENGINEER

STAGE 2	FRAC	WATER	DATE	01-30-91			
ZONES	PERFS		HOLES	BBL	BP	ISIP	
BENSON	4878-4882		16	600	1700	2074	
RILEY	4450-4477		18	700	3397	1956	

FORMATION	COLOR		HARD/SOFT	TOP	BOTTOM	REMARKS
RR	RED	SOFT	0	15		
SAND & SHALE	BROWN	HARD	15	86		GAS CK @ 1866 NO SHOW
SHALE	GRAY	HARD	86	98		GAS CK @ 1897 NO SHOW
SAND	GRAY	HARD	98	150		GAS CK @ 1928 NO SHOW
SAND & SHALE	GRAY	SOFT	150	195		GAS CK @ 1960 NO SHOW
SAND	BROWN	SOFT	195	260		GAS CK @ 1990 NO SHOW
SAND & SHALE	BROWN	SOFT	260	395		GAS CK @ 2021 NO SHOW
SAND	GRAY	HARD	395	420		GAS CK @ 2645 NO SHOW
SAND & SHALE	GRAY	HARD	420	578		
SAND	BROWN	HARD	578	591		GAS CK @ 3453 40/10 1" W/W
SAND & SHALE	BROWN	SOFT	591	820		
SAND	GRAY	SOFT	820	860		GAS CK @ 4546 6/10 2" W/W
SAND & SHALE	GRAY	HARD	860	994		
SAND	BROWN	HARD	994	1056		GAS CK @ TD 10/10 2" W/W
SAND & SHALE	GRAY	HARD	1056	1181		
SHALE	GRAY	SOFT	1181	1330		
SAND & SHALE	GRAY	SOFT	1330	1778		
LITTLE LIME	BROWN	SOFT	1778	1792		
SAND & SHALE	BROWN	SOFT	1792	1815		
BIG LIME	BROWN	HARD	1815	1905		
SAND & SHALE	GRAY	HARD	1905	1918		
INJUN	GRAY	SOFT	1918	2015		
SAND & SHALE	GRAY	SOFT	2015	2565		
GORDON	BROWN	SOFT	2565	2605		
SAND & SHALE	BROWN	HARD	2605	4405		
RILEY	GRAY	SOFT	4405	4480		
SAND & SHALE	GRAY	SOFT	4480	4893		
BENSON	GRAY	HARD	4893	4905		
SAND & SHALE	GRAY	HARD	4905	5050		
TD			5050			



0116

27

095-1326

Issued 8/28/89 Expires Page \_\_\_ of 8/28/91

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 <sup>847</sup> 47850 (5) 670
- 2) Operator's Well Number: FREEMAN #2 (398-S) 3) Elevation: 967'
- 4) Well type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5200 feet
- 7) Approximate fresh water strata depths: 95'
- 8) Approximate salt water depths: 1050'
- 9) Approximate coal seam depths: NA ~~551'-553'~~
- 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	Fill-up (cu. ft.)
<i>4/7/89</i> <i>ck</i> Conductor	11 3/4	ERW	42#	125'	125'	38 CSR 18-11.3 <i>cts</i>
Fresh Water						<i>38 CSR 11.3</i>
Coal						<i>38 CSR 18-11.2</i>
Intermediate	8 5/8	ERW	23#	1200'	1200'	38 CSR 18-11.3 <i>cts</i>
Production	4 1/2	ERW	10.5#	5200'	5200'	38 CSR 18-11.1
Tubing						
Liners						

**RECEIVED**  
AUG 11 1989

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

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

6410  
11  
Fee(s) paid: *JJ* Well Work Permit *JJ* Reclamation Fund *JJ* WPCP  
*JJ* Plat *JJ* WW-9 *JJ* WW-2B *JJ* Bond *Blanket sure* *JJ* Agent

**RECEIVED**  
AUG 11 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1)  
2)  
3)

Date: JUNE 19, 1989  
Operator's well number  
FREEMAN #2 (398-S)  
API Well No: 47 - 095 - 1326  
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 AUBRA G. FREEMAN, JR.  
Address PO BOX 212  
WEST UNION, WV 26456  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector GLEN P. ROBINSON  
Address RT 1, #6 MT PLEASANT EST.  
MINERAL WELLS, WV 26150  
Telephone (304)- 489-9162

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name ERLIN L. FREEMAN, AGENT  
Address 1236 OAKLAND TERRACE RD  
BALTIMORE, MD 21227  
Name FRANK BUTLER & SAM HORTON  
Address 807 VICTORIA AVE.  
WILLIAMSTOWN, WV 26187  
(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: *Benjamin G. Haulton*  
Its: PRESIDENT  
Address PO DRAWER K  
JANE LEW, WV 26378-0080  
Telephone 304-884-7881

Subscribed and sworn before me this 19TH day of JUNE, 1989

*Benjamin G. Haulton* Notary Public  
My commission expires JANUARY 16, 1991