

HAMMOND

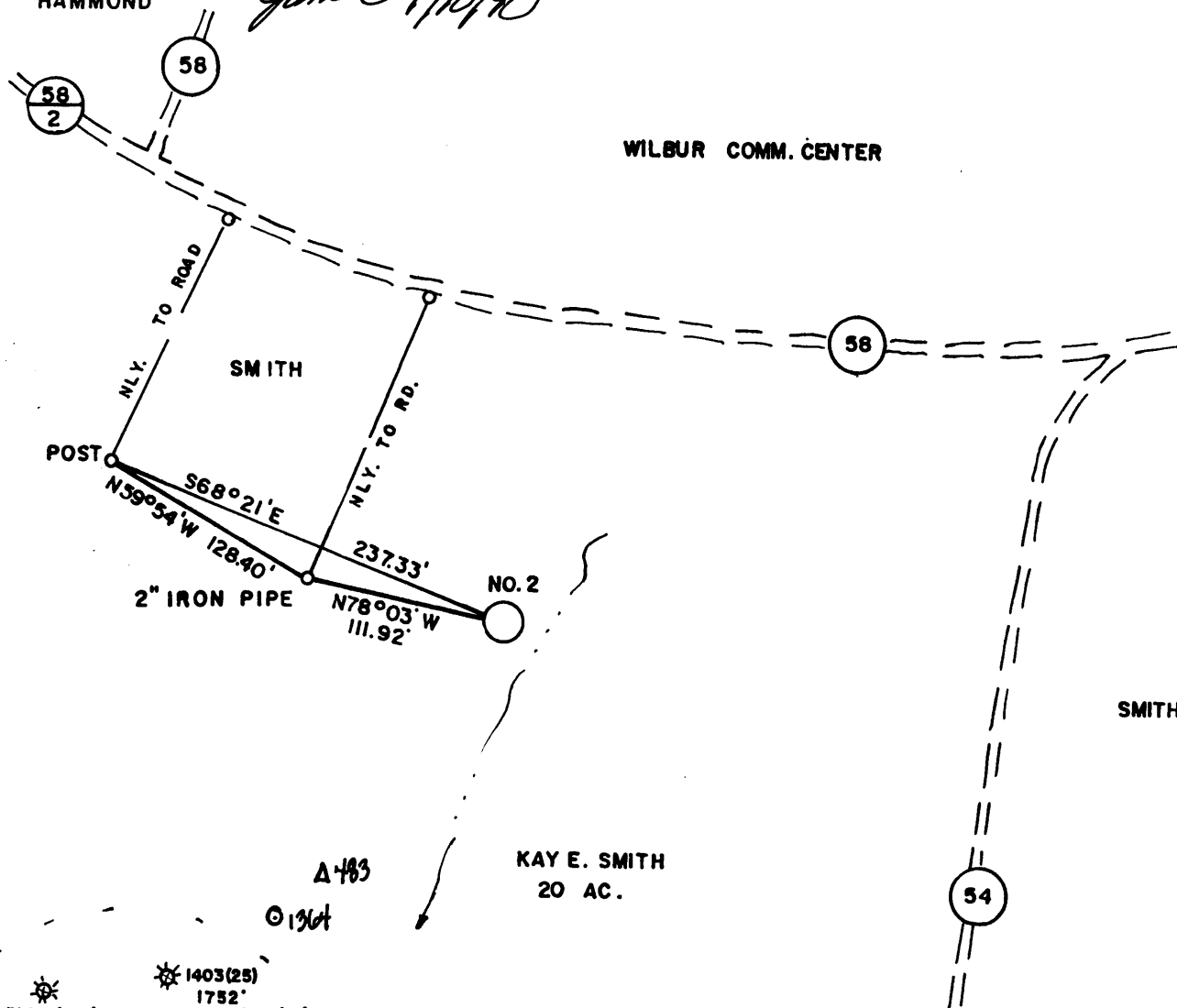
*Janie 9/10/90*

WILBUR COMM. CENTER

LONGITUDE 80°47'30"

14,790

NORTH



WELL REFERENCES:

N36°15'E, 116.50' TO POWER POLE  
N78°03'W, 111.92' TO 2" IRON PIPE

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

*SHIRLEY 7.5  
WEST UNION 7.5  
283 S  
285 S  
170 W  
283 S  
393 W  
W. Union cc*

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

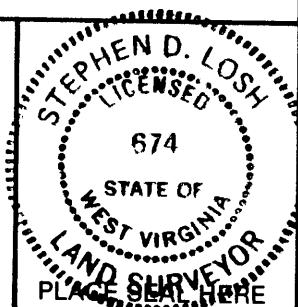
FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 100'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 350' NE.  
OF LOCATION ELEV. - 1038'

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. 674

STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE SEPTEMBER 17, 19 90  
 OPERATOR'S WELL NO. PIERSON NO. 2  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 994' WATERSHED CAMP MISTAKE RUN  
 DISTRICT CENTERVILLE COUNTY TYLER  
 QUADRANGLE SHIRLEY 7.5 min.

SURFACE OWNER KAY E. SMITH & WALTON SMITH JR. ACREAGE 20  
 OIL & GAS ROYALTY OWNER CLARA DOAK et. al. & SMITH LEASE ACREAGE 20

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 5300'  
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSE SHELL  
 ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R  
JANE LEW, WV 26378 JANE LEW, WV 26378

OCT 22 1990

*6-6 Wilbur (692)*

FORM WW-6 HALLS INC. 0688065

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: SMITH, KAY E & WALTON, JR Operator Well No.: PIERSON 2 432 S

LOCATION: Elevation: 994.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER  
Latitude: 14790 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 9040 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: 10/11/90  
Well work Commenced: 12/08/90  
Well work Completed: 12/14/90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5100  
Fresh water depths (ft) \_\_\_\_\_  
50, 75  
Salt water depths (ft) \_\_\_\_\_  
435

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	125	125	80 SKS
8 5/8	1366	1366	300 SKS
4 1/2	5060	5060	710 SKS

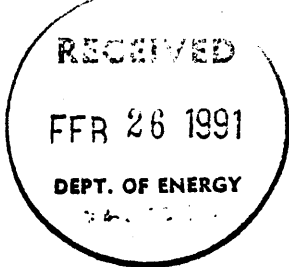
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 290, 360, 636

OPEN FLOW DATA

Producing formation BENSON, RILEY Pay zone depth (ft) 4922/450  
Gas: Initial open flow 25 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2316 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1375 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.



For: STONEWALL GAS COMPANY

By: [Signature] RAY M. FREAR, JR.  
Date: FEBRUARY 21, 1991 PETROLEUM ENGINEER

STAGE 1	FRAC	WATER	DATE	01-03-91		
ZONES	PERFS		HOLES	BBL	BP	ISIP
BENSON/RILEY	4922-4926		20	700	1616	1749
	4503-4507		4	BOTH ZONES TREATED WITH ONE STAGE FRA		

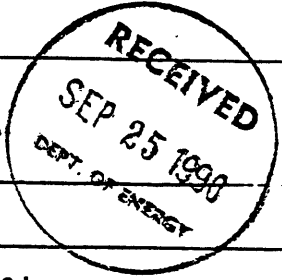
FORMATION	COLOR		HARD/SOFT	TOP	BOTTOM	REMARKS
FILL	BROWN	SOFT	0	4		GAS CK 1928 NO SHOW
CLAY	GRAY	HARD	4	8		GAS CK 1960 NO SHOW
SAND	GRAY	HARD	8	75		
RR	RED	HARD	75	80		GAS CK 1990 NO SHOW
SAND & SHALE	GRAY	SOFT	80	112		GAS CK 2021 2/10 1" W/W
SAND	BROWN	SOFT	112	205		GAS CK 2053 12/10 1" W/W
SAND & SHALE	BROWN	SOFT	205	290		
COAL	BLACK	SOFT	290	295		GAS CK 2241 22/10 1" W/W
SAND & SHALE	GRAY	HARD	295	360		GAS CK 2767 26/10 1" W/W
COAL	BLACK	SOFT	360	364		
SAND & SHALE	GRAY	HARD	364	617		GAS CK 3700 24/10 1" W/W
SAND	BLACK	SOFT	617	635		GAS CK 4602 20/10 1" W/W
COAL & SHALE	GRAY	HARD	635	638		GAS CK TD 6/10 1" W/W
SAND & SHAL	BROWN	SOFT	638	720		
RR & SHALE	BLACK	SOFT	720	1125		
SAND & SHALE	GRAY	SOFT	1125	1295		
RR & SHALE	GRAY	HARD	1295	1306		
SAND & SHALE	GRAY	HARD	1306	1342		
SHALE & RR	GRAY	HARD	1342	1361		
SAND	BROWN	SOFT	1361	1747		
SAND & SHALE	BROWN	SOFT	1747	1818		
LLIME	BROWN	SOFT	1818	1847		
B-LIME	BROWN	HARD	1847	1940		
BIG INJUN	GRAY	HARD	1940	2070		
SAND & SHALE	GRAY	HARD	2070	2604		
GORDON	GRAY	SOFT	2604	2620		
SAND & SHALE	BROWN	SOFT	2620	4495		
RILEY	GRAY	HARD	4495	4570		
SHALE	GRAY	HARD	4570	4935		
BENSON	GRAY	SOFT	4935	4945		
SAND & SHALE	BROWN	SOFT	4945	5100		
TD			5100			



11313

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (L) 606
- 2) Operator's Well Number: PIERSON #2 (432-S) 3) Elevation: 994'
- 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: 5100' feet
- 7) Approximate fresh water strata depths: OK 75' 243'
- 8) Approximate salt water depths: OK 1225'
- 9) Approximate coal seam depths: OK 615-618' ; 630-633'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 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.)
<u>9/12/90</u> Conductor	11 3/4"		27#	125'	125' - CTS	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1350'	1350' - CTS	38 CSR 18-11.2.2
Production	4 1/2"		10.5#	5040'	5040'	38 CSR 18-11.1
Tubing						
Liners						

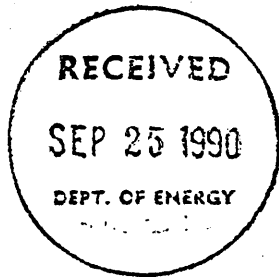
11313

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)



1) Date: SEPTEMBER 21, 1990  
2) Operator's well number  
PIERSON #2 (432-S)  
3) API Well No: 47 - 095 - 1438  
State - County - Permit

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

- |  |   |
|--|---|
| <p>4) Surface Owner(s) to be served:<br/>(a) Name <u>KAY E. SMITH &amp; WALTON</u><br/>Address <u>SMITH, JR.</u><br/><u>HCR 74 BOX 19 WILBUR, WV 26320</u><br/>(b) Name _____<br/>Address _____<br/>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:<br/>Name <u>N/A</u><br/>Address _____<br/>(b) Coal Owner(s) with Declaration<br/>Name <u>CLARA J. DOAK, ET AL</u><br/>Address <u>3517 TAYLOR AVENUE</u><br/><u>N LAS VEGAS, NV 89030</u><br/>Name <u>SAME AS SURFACE</u><br/>Address _____</p> |
| <p>6) Inspector <u>GLEN P. ROBINSON</u><br/>Address <u>RT 1 #6 MT PLEASANT EST.</u><br/><u>MINERAL WELLS, WV 26150</u><br/>Telephone (304)- <u>489-2736</u></p>  | <p>(c) Coal Lessee with Declaration<br/>Name <u>N/A</u><br/>Address _____</p>   |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

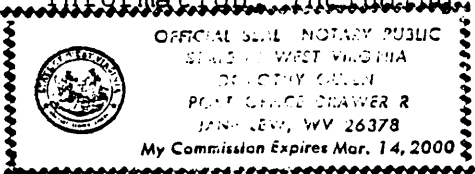
\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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 26378-0080  
Telephone 304-884-7881

Subscribed and sworn before me this 21ST day of SEPTEMBER, 1990

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