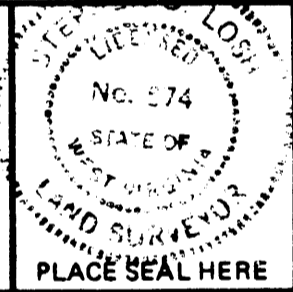


LAND SURVEYING SERVICES  
RT. 2, BOX 215E  
JANE LEW, WV 26378  
PHONE: 304-745-4426

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1 in 2500  
PROVEN SOURCE OF ELEVATION EXIST. WELL NO. 368  
ELEV. - 1157'

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 MINES.

(SIGNED) Stephen D. Losh  
R.P.E. \_\_\_\_\_ L.L.S. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE OCTOBER 06, 19 83  
OPERATOR'S WELL NO. HALL NO. 1A  
API WELL NO. 47 - 033 - 2962  
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1079' WATER SHED LITTLE RUN  
DISTRICT EAGLE COUNTY HARRISON  
QUADRANGLE WALLACE 7.5 min. Clarksburg 15' NW  
SURFACE OWNER PATSY C. NESLER ACREAGE 74  
OIL & GAS ROYALTY OWNER PERRY HALL LEASE ACREAGE 74  
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 5300' 6" Brown-Lumberport  
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD  
ADDRESS P.O. DRAWER F ADDRESS P.O. DRAWER F  
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201 (104)

JAN 3 1984

IV-35  
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OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date January 31, 1984

Operator's P. Hall #1A  
Well No. 201-S

Farm Hall

API No. 47 - 033 - 2962

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /

LOCATION: Elevation: 1079 Watershed Little Run

District: Eagle County Harrison Quadrangle Wallace

COMPANY Stonewall Gas Company

ADDRESS P.O. Drawer F, Buckhannon, WV 26201

DESIGNATED AGENT Charles W. Canfield

ADDRESS P.O. Drawer F, Buckhannon, WV 26201

SURFACE OWNER Patsy C. Nesler

ADDRESS Rt. 1, Box 102-A3A, Lumberport, WV 26386

MINERAL RIGHTS OWNER Same as surface

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Steve

Casey ADDRESS Rt. 2, Box 232-D, Jane Lew, WV

PERMIT ISSUED December 22, 1983

DRILLING COMMENCED January 11, 1984

DRILLING COMPLETED January 18, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond. 11 3/4			
13-10#	36	36	CTS
9 5/8			
8 5/8	1589	1589	340 sks
7			
5 1/2			
4 1/2	3923	3923	400 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Balltown Depth 3923 feet

Depth of completed well 3650 feet Rotary X Cable Tools \_\_\_\_\_

Water strata depth: Fresh 60 feet; Salt 1470 feet

Coal seam depths: 460 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Balltown Pay zone depth 3650-3678 feet

Gas: Initial open flow 25 Mcf/d Oil: Initial open flow Show Bbl/d

Final open flow 103 Mcf/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 1150 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac 01-25-84

Balltown	Perfs	Holes	BRKD	BBLs	Sand	ISIP
	<u>3652-3678</u>	17	3400	900	90,000	1600

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
Fill	B	S	0	10	
Sand	W	H	10	15	
Shale and red rock	R	S	15	30	Water 60' 1/2" Stream
Sand	W	H	30	140	Water 110' 1" Stream
Sand/shale	G	S	140	340	
Shale	G	M	340	380	Water 380' 1/2" Stream
Coal	B	M	380	384	
Shale	G	S	384	470	
Shale/Sand	G	S	470	835	
Red Rock	R	M	835	880	
Shale	G	H	880	1310	
Sand/Shale	G	H	1310	1700	
Little Lime	Br	H	1700	1740	
Sand/Shale	G	H	1740	1770	
Big Lime	Br	H	1770	1830	Gas @ 2074 No Show
Sand/Shale	B	M	1830	2840	Gas @ 2509 No Show
Sand/Shale	B	M	2840	3410	Gas @ 2883 8/10 1/2" H <sub>2</sub> O
Sand/Shale	B	M	3410	3580	Gas @ 3504 24/10 1/2" H <sub>2</sub> O
Balltown	B	M	3580	3650	
TD			<u>3970</u>		Gas @ 3970 8/10 1/2" H <sub>2</sub> O Balltown

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

By: Benjamin A. Hardesty  
 Benjamin A. Hardesty, Vice President  
 Date: January 31, 1984

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ..."



1) Date: November 30, 19 83  
 2) Operator's Well No. Perry Hall #1A (201-S)  
 3) API Well No. 47 - 033 - 2962  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow )  
 5) LOCATION: Elevation: 1079 Watershed: Little Run  
 District: Eagle County: Harrison Quadrangle: Wallace  
 6) WELL OPERATOR Stonewall Gas Company 7) DESIGNATED AGENT Charles Canfield  
 Address P. O. Drawer F Address P. O. Drawer F  
Buckhannon, WV 26201 Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Steve Casey (884-7470) Name S. W. Jack Drilling  
 Address Rt. 2, Box 232-D Address \_\_\_\_\_  
Jane Lew, WV Buckhannon, WV  
 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate   
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Alexander  
 12) Estimated depth of completed well, 5300 feet  
 13) Approximate trata depths: Fresh, 160 400 feet; salt, 595 feet.  
 14) Approximate coal seam depths: 650 Is coal being mined in the area? Yes OIL & GAS DIVISION

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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	11 3/4		42		X	X	As required	Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8	ERW	23	X		<del>1250</del> 1179	1250 1179	To Surface
Production	4 1/2	ERW	10.5	X		4500	4500	As required
Tubing								By Rule 15.05
Liners								Depths set
								Perforations:
								Top Bottom

DEPT. OF MINES

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-033-2962 Date December 22, 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 22, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
	<u>LD</u>	<u>MH</u>	<u>MH</u>	<u>1250</u>

*[Signature]*  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.