



WELL REFERENCES:
 S24°30'E, 105' TO 9" WHITE OAK
 S81°30'E, 79' TO 2" RED MAPLE

LAND SURVEYING SERVICES
 1412 NORTH 18 TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF _____
 ACCURACY 1 in 200
 PROVEN SOURCE OF _____
 ELEVATION ROAD INTERSECTION _____
 1945' N.W. OF LOCATION - ELEV. 974

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. _____ I.L.S. NO. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 8, 19 85
 OPERATOR'S WELL NO. GAINER I REVISED
 API WELL NO. _____

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1328' WATER SHED _____ BUFFALO CALF FORK
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
 QUADRANGLE SALEM 7.5 MINUTE 596 022 (center point) SEC. 8
 SURFACE OWNER WALTER & LEONARD DAVIDSON ACREAGE 83.61
 OIL & GAS ROYALTY OWNER LAVERNA E. GAINER, HEIRS LEASE ACREAGE 83.61

PROPOSED WORK: DRILL _____ 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 5700'
 WELL OPERATOR STONEWALL GAS COMPANY 847 DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R

JANE LEW, WY 26378-0080 6-6 Salem (102)
 JANE LEW, WY 26378-0080

COUNTY NAME _____ PERMIT _____

AUG 19 1985

47-017-3462



State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date _____
Operator's
Well No. GAINER #1 284-S
Farm DAVIDSON
API No. 47 - 017 - 3462

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: 1328 Watershed BUFFALO CALF CREEK
District: GREENBRIER County DODDRIDGE Quadrangle SALEM

COMPANY STONEWALL GAS COMPANY
ADDRESS PO DRAWER R, JANE LEW, WV 26378
DESIGNATED AGENT CHARLES W. CANFIELD
ADDRESS PO DRAWER R, JANE LEW, WV 26378
SURFACE OWNER WALTER & LEONARD DAVIDSON
ADDRESS RT 1, SALEM, WV 26426
MINERAL RIGHTS OWNER GAINER HEIRS
ADDRESS PO BOX 508, CLARKSBURG, WV 26301
OIL AND GAS INSPECTOR FOR THIS WORK MIKE
UNDERWOOD ADDRESS RT 2, BOX 114, SALEM,
PERMIT ISSUED AUGUST 13, 85 WV 26426
DRILLING COMMENCED AUGUST 30, 85
DRILLING COMPLETED SEPTEMBER 9, 85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
1 1/2-3/4	218	218	100 sks
9 5/8			
8 5/8	1807	1807	385 sks
7			
5 1/2			
4 1/2	5787	5787	620 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5700 feet
Depth of completed well 5787 feet Rotary X / Cable Tools
Water strata depth: Fresh 73 feet; Salt 1775 feet
Coal seam depths: 535-538 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5700 feet
Gas: Initial open flow 90 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 1.283 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1875 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 5350 feet

Gas: Initial open flow 40 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 1283 Mcf/d Oil: Final open flow N/A Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 1875 psig (surface measurement) after 72 hours shut in

DEC 2 1985
(Continue on reverse side)



1) Date: JULY 23, 1985

2) Operator: GAINER #1 (284-S)

3) API Well No. 47 017 -3462
State County Permit

RECEIVED
JUL 25 1985

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

4) WELL TYPE: A Oil Gas / Deep / Shallow
 B (If "Gas", Production / Underground storage / BUFFALO CALF FORK
 5) LOCATION: Elevation: 1212 Watershed: BUFFALO CALF FORK
 District: GREENBRIER County: DODDRIDGE Quadrangle: SALEM 7.5
 6) WELL OPERATOR: STONEWALL GAS COMPANY (847) 4785077 DESIGNATED AGENT: CHARLES W. CANFIELD
 Address: PO DRAWER R PO DRAWER R JANE LEW WV 26378-0080

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name: MIKE UNDERWOOD (782-1043)
 Address: RT 2 BOX 114 SALEM WV 26426
 9) DRILLING CONTRACTOR:
 Name: S. W. JACK
 Address: BUCKHANNON, WV 26201

10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify):
 11) GEOLOGICAL TARGET FORMATION, ALEXANDER (429)
 12) Estimated depth of completed well, 5600 feet
 13) Approximate true depths: Fresh, 18, 29, 73 feet; salt, 1775 feet.
 14) Approximate coal seam depths: 1020, 1030 Is coal being mined in the area? Yes / No

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.			
Conductor	11 3/4			For drilling: 40 Left in well: 40	TO SURFACE	
Fresh water						
Coal						
Intermediate	8 5/8		X	1467	400 SKS RULE 1505	
Production	4 1/2		X	5600	220 SKS RULE 1505	
Tubing						
Liners						

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3462 Date August 13 19 85

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 August 13, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: MW	Casing: MW	Fee: 2302
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Signature
 Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.
 File

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

Fracked two stages 9/13/85
 Alexander PERFS 5652-5722 HOLES 8 BBL 700 SAND 70,000 BREAKDOWN 2600# ISIP 1750#
 Benson 5350-58 16 700 70,000 1400# 1900#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale	Grey	H	0	10	
Red Rock & Shale, Brown		M	10	30	
Sand & Shale, Brown		M	30	60	
Sand & Shale, Brown		H	60	220	
Red Rock & Shale, Grey		H	220	535	1 1/4" Stream H ₂ O 1927
Coal Black		H	535	538	
Sand, RR & Shale, Brown		M	538	1025	Gas @ 2520 8/10 2" H ₂ O 119 MCF
Shale & RR, Grey		H	1025	2530	
Injun ^{CRK}		H	2530		
Sand, Shale, Brown		M	2530	3050	Gas @ 3080 No Show
Gordon		M	3060		
Sand, Shale, Grey		H	3060	3800	Gas @ 3827 6/10 2" H ₂ O 105 MCF
Speechely		H	3800		
Sand, Shale, Grey		M	3800	4320	Gas @ 4319 20/10 2" H ₂ O 187 MCF
Balltown		M	4320		
Sand, Shale, Brown		H	4320	5340	Gas @ 5340 No Show
Benson		H	5340		
Sand, Shale, Brown		M	5340	5620	
Alexander		M	5620		
T.D. Brown		H	5909		Gas @ 5903 4/10 2" H ₂ O 84 MCF

Top Down 2 1/2' to 10'

(Attach separate sheets as necessary)

STONEMALL GAS COMPANY

Well Operator

By: *Ben A. Hardesty*
 BENJAMIN A. HARDESTY, VICE PRESIDENT

Date: _____

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 ... in the well."