



FILE NO. 5-34

DRAWING NO. _____

SCALE 1" = 400'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION BM NEAR JUNCTION OF ROADS ELEV. 1276'

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) Gregory A. Smith

R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

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

FORM IV-6 (8-78)

WELL TYPE OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION ELEVATION 1057' WATER SHED GREENBRIER CREEK

DISTRICT GREENBRIER COUNTY DODDRIDGE

QUADRANGLE BIG ISAAC 7.5' Wade's NC

SURFACE OWNER DELBERT G. PAILEY ACREAGE 20.06

OIL & GAS ROYALTY OWNER ERYIN REX CARDER, et. al. LEASE ACREAGE 20.

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 ELK ESTIMATED DEPTH 5250'

WELL OPERATOR STONEWALL GAS DESIGNATED AGENT R DENNIS XANDER

ADDRESS P.O. BOX 225 ADDRESS P.O. BOX 225

CLARKSBURG, W.V. 26301 SALEM CLARKSBURG, W.V. 26301

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE DECEMBER 3, 19 81

OPERATOR'S WELL NO. 119-S

API WELL NO. 47 - 017 - 3067

STATE 47 COUNTY 017 PERMIT 3067

JAN 21 1982



IV-35
(Rev 8-81)

Date February 17, 1982
Operator's
Well No. 119-S
Farm Carder #1
API No. 47 - 017 - 3067

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1057' Watershed Greenbrier Run
District: Greenbrier County Doddridge Quadrangle Salem 7.5'

COMPANY Stonewall Gas Company
ADDRESS P. O. Drawer F, Buckhannon, WV
DESIGNATED AGENT R. Dennis Xander
ADDRESS P. O. Drawer F, Buckhannon, WV
SURFACE OWNER Delbert G. Bailey
ADDRESS Route 3, Salem, WV 26426
MINERAL RIGHTS OWNER Ervin Rex Carder, et. al.
ADDRESS 208 Milford St., Clarksburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Stephen Casey ADDRESS Rt.2, Box 232-D, Jane Lew, WV
PERMIT ISSUED 12-24-81
DRILLING COMMENCED 01-27-82
DRILLING COMPLETED 02-04-82
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.			
13-10"			
9 5/8			
8 5/8		1624	To surface
7			
5 1/2			
4 1/2		5502	450 sacks (3300-5502)
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk & Benson Depth 5300 feet
Depth of completed well 5536 feet Rotary x / Cable Tools _____
Water strata depth: Fresh None feet; Salt None feet
Coal seam depths: 165, 170 & 718 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson & Alexander Pay zone depth 5020-5390 feet
Gas: Initial open flow 133 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 580 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1800 psig (surface measurement) after 44 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

(Continue on reverse side)

MAR 18 1982

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

WELL NO.	PERF.	BRKD	BBLs	TOTAL SAND	AVE. RATE	PRESS	ISIP
Alexander	5363-87	2500	725	84,000	27.6	2775	1800
Benson	5027-34	2800	616	79,000	27.9	2424	2000

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 & Silt	Gr	S	1950	2065	Coal - 165, 170, 718
Big Lime	Br	H	2065	2125	
Big Injun	W	H	2125	2220	Gas @ 2130
Shale	Gr	S	2220	2715	
Sand	W	H	2715	2850	Gas @ 2725
Shale	Gr	S	2850	3390	
Siltstone	Br	M	3390	3745	
Shale	Gr	S	3745	5020	
Benson	Br	M	5020	5065	Gas @ 5030
Shale	Gr	S	5065	5300	
Siltstone <i>ALCC</i>	Br	M	5300	5415	Gas @ 5365
Shale	Gr	S	5415	5536	
TOTAL DEPTH			5536		

(Attach separate sheets as necessary)

Stonewall Gas Company
Well Operator
By: *R. Dennis Xander*
Date: February 17, 1982

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 coal, encountered in the drilling of a well."

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address _____

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5500 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 380 feet; salt, - feet.

Approximate coal seam depths: 95' & 167' Is coal being mined in the area? Yes _____ / No X /

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	Left in well			
Conductor	11 3/4		42		X	30'			Kinds	
Fresh Water										
Coal									Sizes	
Intermediate	8 5/8	ERW	23	X		1100'	1100'	210 sacks or to fill up		
Production	4 1/2	ERW	10.5	X		5450'	5450'	545 sacks or as required	Depths set	
Tubing								by rule 15.01		
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-24-82

J. E. Arney
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____
Its _____