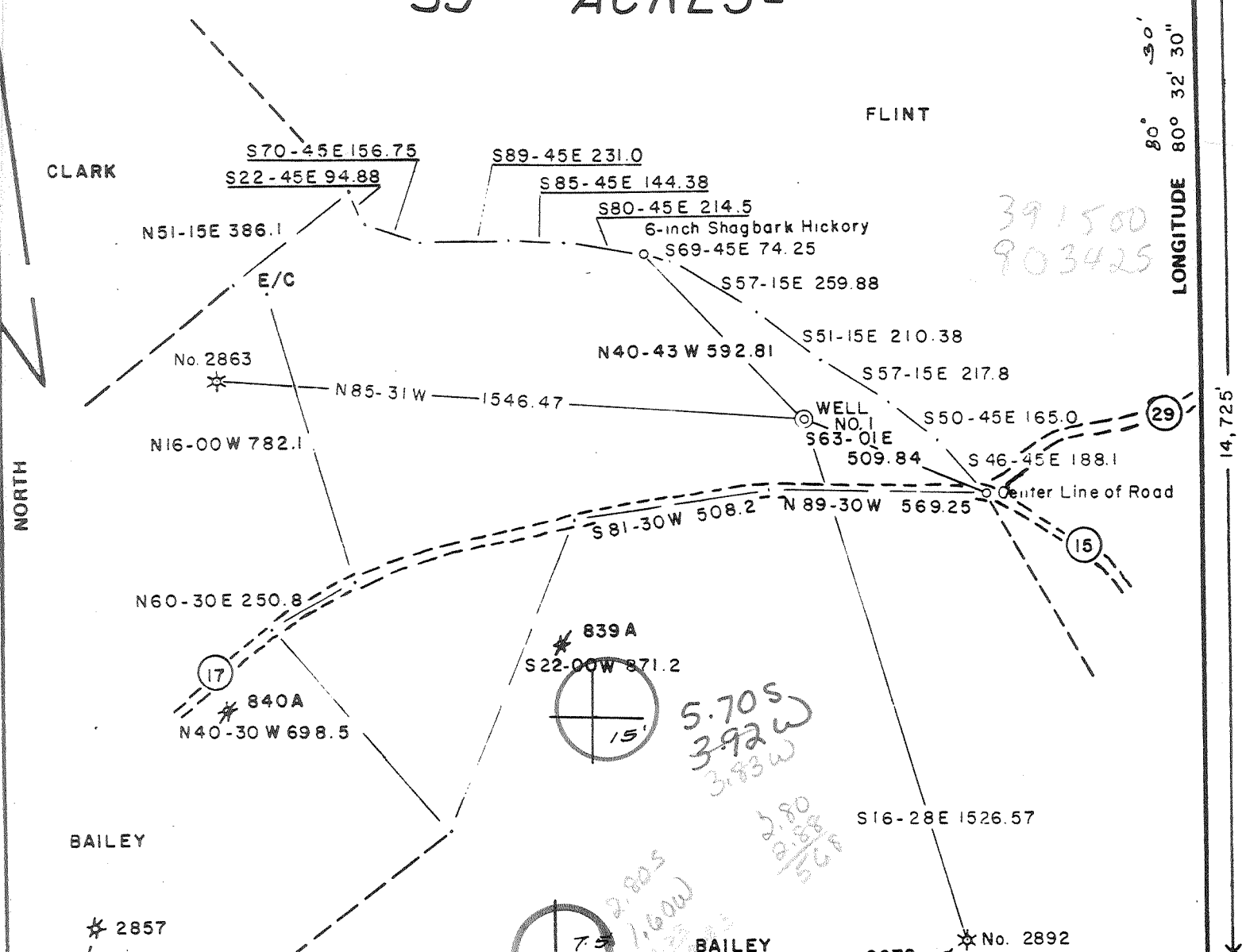


SPAULDING WELL NO. 1

33 ACRES±



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)



DATE NOVEMBER 19, 19 81
 OPERATOR'S WELL NO. 120-S
 API WELL NO. _____
47 - 017 - 3068
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION ELEVATION 1336' WATERSHED GREENBRIAR CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE SALEM 7.5' Centerpoint 15' SE
 SURFACE OWNER FORREST L. BAILEY ACREAGE 41.81
 OIL & GAS ROYALTY OWNER JOHN R. MORRIS, et. als. LEASE ACREAGE 33
 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 5500'
 WELL OPERATOR STONEWALL GAS DESIGNATED AGENT R. DENNIS XANDER
 ADDRESS P.O. BOX 225 ADDRESS P.O. BOX 225
CLARKSBURG, W.V. 26301 CLARKSBURG, W.V. 26301

JAN 21 1982



Date 1-28-82

RECEIVED State of West Virginia

Operator's

Well No. 120-S

FEB 16 1982

Department of Mines

Farm Spaulding #1

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

API No. 47 - 017 - 306A

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1336 Watershed Greenbrier Creek

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 Forest L. Bailey

ADDRESS Rt. 1, Bristol, WV 26332

MINERAL RIGHTS OWNER J. R. Morris, Et. Als.

ADDRESS P.O. Box 442, Clarksburg, WV 26302

OIL AND GAS INSPECTOR FOR THIS WORK Steve

Casey ADDRESS Jane Lew, WV

PERMIT ISSUED 12-9-81

DRILLING COMMENCED 1-2-82

DRILLING COMPLETED 1-9-82

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		1467	370 sks to surface
7			
5 1/2			
4 1/2		5758	400 sks (3600-5758)
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk-Benson Depth 5550 feet

Depth of completed well 5810 feet Rotary / Cable Tools _____

Water strata depth: Fresh 80 feet; Salt 1775 feet

Coal seam depths: 1018-1025 Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Elk ACEX Pay zone depth 5488-5621 feet

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

Final open flow 375 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1825 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 5271-5282 feet

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

Final open flow 375 Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests 496 hours

Static rock pressure 1275 psig (surface measurement) after 96 hours shut in

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

Frac: 1-26-82 2 stage Benson-Alexander
 Benson (5271-82) 12 Holes 545 BBLs, 69,000# Sand 1600# ISIP
 Alex (5488-5621) 12 Holes 548 BBLs, 70,000# Sand 2100# ISIP

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		G	S	2300	2340	
Lime		Br	H	2340	2410	
Sand		Wh	H	2410	2485	
Shale		Gr	S	2485	2970	
Sand		Wh	H	2970	3120	
Shale		Gr	S	3120	5220	Show Gas @ 3728
Benson		Br	M	5270	5285	Show Gas @ 5275
Shale		Gr	S	5235	5430	
Silt		Br	M	5430	5495	
Shale		Gr	S	5495	5570	
Silt		Br	M	5570	5670	Show Gas @ 5620
Shale	ALEX	Gr	S	5670	5810	
TD				5810		

(Attach separate sheets as necessary)

Stonewall Gas Company

Well Operator

By: *[Signature]*
 R. Dennis Kander, Vice President

Date: 02/15/82

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 ..., encountered in the drilling of a well."



Date: December 9, 1981

Operator's
Well No. Spaulding #1, 120-S

API Well No. 47 - 017 - 3068
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT

WELL TYPE: Oil _____ / Gas X /
(If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)

LOCATION: Elevation: 1336' Watershed: Greenbrier Creek
District: Greenbrier County: Doddridge Quadrangle: Salem 7.5'

WELL OPERATOR Stonewall Gas Company DESIGNATED AGENT R. Dennis Xander
Address P. O. Box 225 Address P. O. Box 225
Clarksburg, WV 26302-0225 Clarksburg, WV 26302-0225

OIL & GAS ROYALTY OWNER John R. Morris, et. als.
(Will E. Morris Estate)
Address P.O. Box 442
Clarksburg, WV 26302

COAL OPERATOR _____
Address _____

Acresage 33
SURFACE OWNER Forrest L. Bailey
Address Route 1
Bristol, WV 26332
Acresage 41.81

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Virginia A. Tetrick
Address Union National Center
Clarksburg, WV 26301
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Stephen Casey
Address Rt. 2, Box 232-D, Jane Lew, WV
884-7470

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X
other contract _____ / dated June 4, 1981, to ~~the undersigned well operator from~~ Clarence W. Mutschelknaus
and subsequently assigned to the undersigned well operator.
(IF said deed, lease, or other contract has been recorded:)

Recorded on June 23, 1981, in the office of the Clerk of the County Commission of Doddridge County, West Virginia in Lease Book 121 at page 20. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____

—planned as shown on the work order on the reverse side hereof.

RECEIVED
DEC 9 1981
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISS-
NEET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Stonewall Gas Company
Well Operator
By [Signature]
R. Dennis Xander
Its Vice President

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, 5800 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 650 feet; salt, - feet.

Approximate coal seam depths: 220' & 356' 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	25'			Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8	ERW	23	X		1200'	1200'	225 sacks or to fill up	
Production	4 1/2	ERW	10.5	X		5750'	5750'	575 sacks or as required by rule 15.01	Depths set
Tubing									
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 conditions 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. J. Murray
Deputy Director - Oil & Gas Division

Survey

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 _____