



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. EL. 1291 (J.E.A. NO. 3 1962) NEAR CH. IN ROAD JCT. BIG ISAAC 7.5 TOPO (1976)

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) Douglas P. Moats
 R.P.E. 7002 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 27, 19 81
 OPERATOR'S WELL NO. ONE (1)
 API WELL NO. _____
47 - 017 - 2995
 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 X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1274' WATER SHED SUGAR CAMP RUN
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC, 7.5' Vadis 15' NC
 SURFACE OWNER E. MAY SUMMERS ACREAGE 106.0
 OIL & GAS ROYALTY OWNER E. MAY SUMMERS LEASE ACREAGE 106.07
 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 5600'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT J. ROBERT HORNER
 ADDRESS P.O. BOX 1575 ADDRESS P.O. BOX 225
RICHMOND, VA. 23213 CLARKSBURG, W.VA. 26301



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

RECEIVED

JUL - 6 1981

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Big Isaac 7.5'

Permit No. 47-017-2995

Company Stonewall Gas Company
Address P. O. Box 1575
Farm E. May Summers Acres 106
Location (waters) Sugar Camp Run
Well No. 1 Elev. 127.4'
District Greenbrier County Doddridge
The surface of tract is owned in fee by E. May Summers
Address 63 West Virginia Ave., Salem, WV 26426
Mineral rights are owned by Same
Address Same
Drilling Commenced 5-25-81
Drilling Completed 6-4-81
Initial open flow _____ cu. ft. _____ bbls.
Final production 381 m cu. ft. per day _____ bbls.
Well open 4 hrs. before test 1500 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	30'		Pulled
9 5/8			
8 5/8		1300'	420 sacks
7			
5 1/2			
4 1/2		5651'	230 sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Alexander & Leopold 27500# 80/100 sand 60,000# 20/40 sand 700 BBL S.L.F.
Benson 15,000# 80/100 sand 30,000# 20/40 sand 365 BBL S.L.F.

Coal was encountered at 360 to 363 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water 1930' Feet _____
Producing Sand Alexander, Leopold, Benson Depth 5370' to 5570', 5216' to 5221'
Alex BNSN

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			48'	68'		
Sand			68'	95'		
Sand and Shale			95'	112'		
Red Rock and Shale			112'	117'		
Sand and Shale			117'	140'		
Red Rock			140'	170'		
Sand, Shale and Red Rock			170'	295'		
Sand			295'	355'		
Sand and Shale			355'	360'		
Coal			360'	363'		
Sand and Shale			363'	410'		
Sand			410'	470'		
Red Rock and Shale			470'	565'		
Sand			565'	605'		
Sand and Shale			605'	1035'		
Sand, Shale and Red Rock			1035'	1250'		
Sand and Shale			1250'	1630'		
Sand			1630'	1760'		
Sand and Shale			1760'	1830'		
Sand			1830'	1930'		
Sand and Shale			1930'	1960'		
Sand			1960'	2300'		

JUL 20 1981

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Big Lime			2300'	2360'		
Big Injun			2360'	2415'		
Sand and Shale			2415'	2445'		
Sand and Shale			2445'	2500'		
Sand			2500'	2575'		
Sand and Shale			2575'	3650'	Show of oil	
Sand and Shale			3650'	5280'	Gas check, now show	
Benson			5280'	5290'		
Shale			5290'	5510'		
Alexander			5510'	5590'		
Sand and Shale			5590'	5710'		
Total Depth			5710'			

All exploratory

5710
2750

2960

Date June 30 1981

APPROVED *[Signature]* CONSULTANT



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAY - 1 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE April 29, 1981

Surface Owner E. May Summers

Company Stonewall Gas Company

Address 63 West Virginia Ave., Salem, WV 26426

Address P.O. Box 1575, Richmond, VA 23213

Mineral Owner E. May Summers

Farm E. May Summers Acres 106

Address 63 West Virginia Ave., Salem, WV 26426

Location (waters) Sugar Camp Run

Coal Owner Virginia Tetrick

Well No. One (1) Elevation 1274'

Address Union National Center, Clarksburg, WV 26301

District Greenbrier County Doddridge

Coal Operator None

Quadrangle Big Isaac 7 1/2'

Address

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, this location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-5-82.

INSPECTOR

TO BE NOTIFIED Stephen L. Casey

ADDRESS Jane Lew, WV

PHONE 884-7470

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having title thereto, (or as the case may be) under grant or lease dated January 30 1979 by E. May Summers made to C. W. Mutchelknaus and recorded on the 13 day of August 1979 in Doddridge County, Book 110 Page 143

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

OFFICE OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia
Area Code 304 -348-3092 348-3096

Address of Well Operator

Very truly yours,

(Sign Name)

[Signature]
Well Operator
Stonewall Gas Company
P. O. Box 1575

Street

Richmond

City or Town

Virginia 23213

State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-017-2995

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 7, Section 12-b and will carry out the specified requirements."

Signed by

[Signature]

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Unknown NAME J. Robert Hornor
 ADDRESS _____ ADDRESS P. O. Box 225, Clarksburg, WV 26301
 TELEPHONE _____ TELEPHONE 304-622-8231
 ESTIMATED DEPTH OF COMPLETED WELL: 5600 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Alexander
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	DEPTH IN WELL	CEMENT III UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30'	30'	
9 - 5/8			
8 - 5/8	1300'	1300'	Circulate
7			
5 1/2			
4 1/2		5550	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET _____ SALT WATER 450 FEET _____
 APPROXIMATE COAL DEPTHS 460 ft.
 IS COAL BEING MINED IN THE AREA? NO _____ BY WHOM? _____

TO DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Trustee ~~Agent~~ for Virginia A. Tetrick Trust Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.
 We the owner Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

Willis G. Tetrick Jr.

 Coal Company Trustee

Official Title