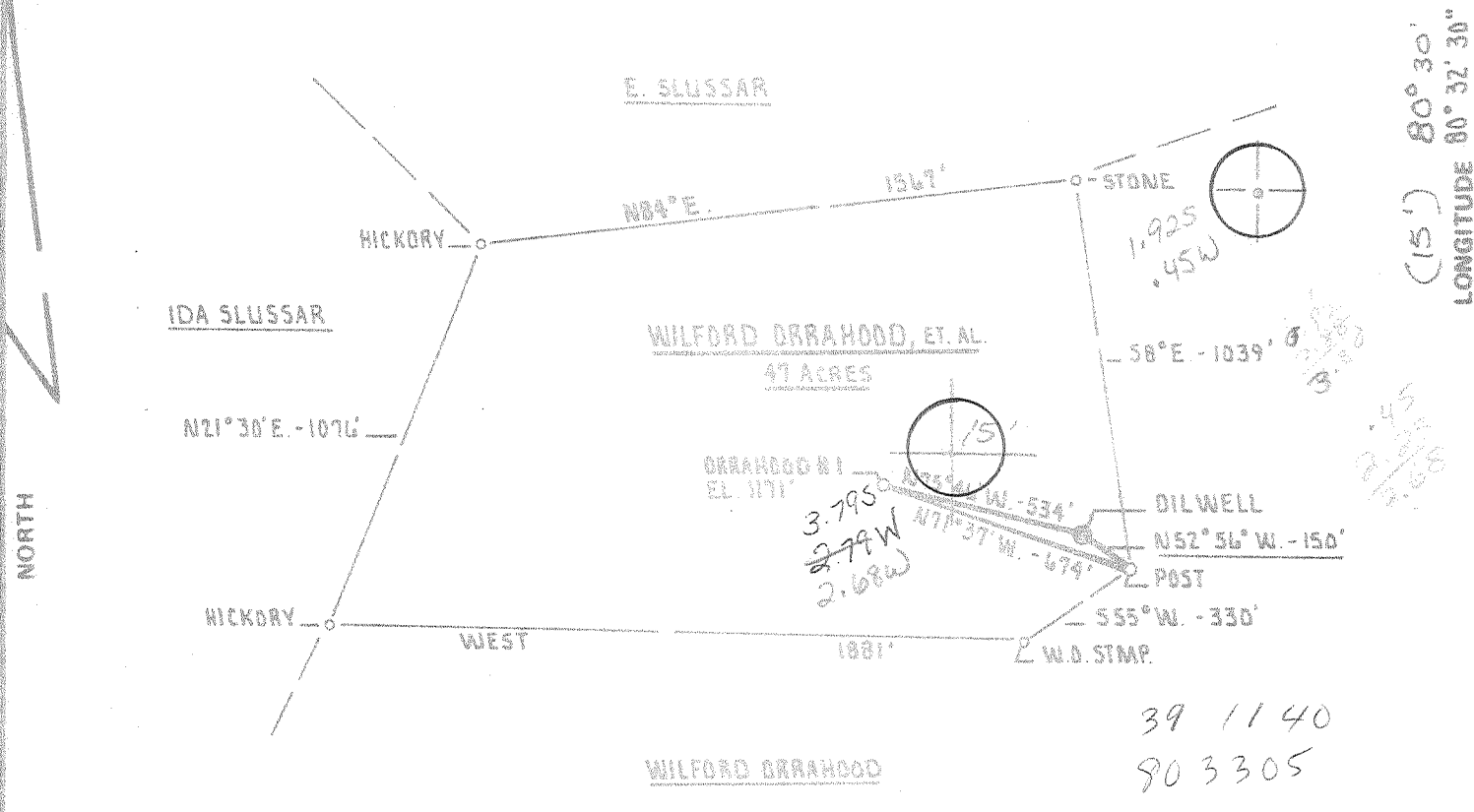


LATITUDE 39° 12' 30"
(15') 39° 15'



LONGITUDE 80° 32' 30"
(15') 80° 30'

39 11 40
80 33 05

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 1/2 MILE S. OF BIG ISAAC ON (48/2) ELEVATION 1045'

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) Wm. S. Wheeler
R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE SEPTEMBER 11th 19 80
OPERATOR'S WELL NO ORRAHOOD #1
API WELL NO _____
47 - 017 - 2852
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION ELEVATION 1171' WATER SHED BRANCH OF LAUREL RUN
DISTRICT GREENBRIER COUNTY BOBBIDGE
QUADRANGLE BIG ISAAC 7.5' VADIS 15' NE
SURFACE OWNER WILFORD ORRAHOOD ACREAGE 47 Ac.
OIL & GAS ROYALTY OWNER WILFORD ORRAHOOD, ET AL. LEASE ACREAGE 47 Ac.
LEASE NO. _____
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 5500'
WELL OPERATOR STONEWALL GAS CO., INC. DESIGNATED AGENT J. ROBERT HORNOR
ADDRESS P.O. BOX 1575 ADDRESS P.O. BOX 225
RICHMOND VIRGINIA 23213 CLARKSBURG WEST VIRGINIA 26301



RECEIVED

FEB - 6 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD ¹²

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

Quadrangle Big Isaac 7 1/2'

Permit No. 47-017-2852

Company <u>Stonewall Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 1575 Richmond, VA 23213</u>				
Farm <u>Wilford Orrahood</u> Acres <u>47</u>	Size			
Location (waters) <u>Laurel Run</u>	20-16			
Well No. <u>One (1)</u> Elev. <u>1171'</u>	Cond.			
District <u>Greenbrier</u> County <u>Doddridge</u>	13-10"	30'	0	Pulled
The surface of tract is owned in fee by <u>Wilford Orrahood</u>	9 5/8			
Address <u>Rt. 3, Box 77, Salem, WV 26426</u>	8 5/8	1294'	1294'	310 sacks
Mineral rights are owned by <u>Same</u>	7			
Address _____	5 1/2			
Drilling Commenced <u>10-28-80</u>	4 1/2		5314'	520 sacks
Drilling Completed <u>11-03-80</u>	3			
Initial open flow <u>37,000</u> cu. ft. _____ bbls.	2			
Final production <u>1,032,000</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>4</u> hrs. before test <u>1910#</u> RP.				

Well treatment details:

Attach copy of cementing record.

<u>Alexander</u>	<u>25,000# 80/100</u>	<u>50,000# 20/40</u>	<u>607 BBL S/L Fluid</u>
<u>Benson</u>	<u>25,000# 80/100</u>	<u>50,000# 20/40</u>	<u>615 BBL S/L Fluid</u>

Coal was encountered at 175', 595' Feet 36", 120" Inches
Fresh water 108 Feet _____ Salt Water _____ Feet _____
Producing Sand Benson, Alexander Depth 4897-4908, 5240-46

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Fill			0	5		
Shale			5	30		
Sand			30	140		
Shale/Sand			140	175		
Coal			175	178		
Shale/Sand			178	260		
Red Rock/Shale			260	445		
Sand/Shale			445	595		
Coal			595	605		
Sand/Shale			605	687		
Red Rock			687	695		
Shale			695	1110		
Red Rock & Shale			1110	1280		
Sand & Shale			1280	1830		
Shale			1830	1850		
Red Rock/Shale			1850	1980		
Big Lime			1980	2085		
Sand/Lime			2085	2730		
Sand			2730	2750		
Shale			2750	2940		
Sand			2940	2970		
Sand/Shale			2970	3320		
Sand			3320	3520		
Sand/Shale			3520	4340		

Gas Checks
@ 2059' - no show
@ 2551' - no show
@ 2920' - 10/10 WTR 2"
@ 3534' - 20/10 WTR 1"
@ 4154' - 18/10 WTR 1"
@ 4400' - 10/10 WTR 2"
@ 5013' - 18/10 WTR 2"
@ 5475' 12/10 WTR 1"

(over)

* Indicates Electric Log tops in the remarks section.

FEB 24 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			4340	4360		
Sand & Shale			4360	4890		
Benson			4890	4910		
Sand & Shale			4910	5170		
<u>Alexander</u>			5170	5300		
Shale			5300	5475		
Total Depth			5475			

Date January 22 19 81

APPROVED [Signature] Consulter, Owner



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
OCT 15 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Wilford Orrahood
Address Rt. 3, Box 77, Salem, WV 26426
Mineral Owner Wilford Orrahood, et al
Address Rt. 3, Box 77, Salem, WV 26426
Coal Owner Eastern Associated Coal Corp.
Address Koppers Bldg., Pittsburgh, PA 15219
Coal Operator None
Address _____

DATE October 9, 1980
Company Stonewall Gas Company
Address P.O. Box 1575, Richmond, VA 23213
Farm Wilford Orrahood, et al Acres 47
Location (waters) Laurel Run
Well No. One (1) Elevation 1171
District Greenbier County Doddridge
Quadrangle Big Isaac 7 1/2'

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 6-20-81.

INSPECTOR TO BE NOTIFIED Paul Garrett
ADDRESS 321 Beech St., Clarksburg, WV 26301
PHONE 622-3871

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 19 19 62 by H.C. Orrahood, et al made to Pioneer Petroleum Corp. and recorded on the 8 day of December 19 62, in Doddridge County, Book 78 Page 136
 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] CONSULTANT
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 of 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.

47-017-2852

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

[Signature]

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

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) Unknown RESPONSIBLE AGENT: J. Robert Hornor
 NAME Unknown ADDRESS P.O. Box 225, Clarksburg, WV 26301
 ADDRESS _____ TELEPHONE 304-622-8231
 TELEPHONE _____ ROTARY CABLE TOOLS _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5500
 PROPOSED GEOLOGICAL FORMATION: Alexander
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WFL.	CEMENT (HI UP OR SACKS - CUBIC FT.)
20 - 16			
13 - 10	30	30	circulate
9 - 5/8			
8 - 5/8	1300	1300	circulate
7			
5 1/2			
4 1/2		5400	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50' FEET SALT WATER 1150 FEET
 APPROXIMATE COAL DEPTHS 200 600
 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, Agent for _____ 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 _____ 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.

For Coal Company