



- Fracture
- Redrill
- New Location .
- Drill Deeper
- Abandonment

Source of Elevation HOPE WELL 3848 / 1135'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200'

Company STONEWALL GAS COMPANY
 Address BOX 1575, RICHMOND, VA. 23213
 Farm BERNICE L. DAVIS, OKEY CLEVENGER
 Tract _____ Acres 51 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1146'
 Quadrangle VADIS NE 1.15' BIG IESAC 7 1/2'
 County DODDRIDGE District GREENBRIER
 Engineer H. J. McWilliams
 Engineer's Registration No. L.L.S. 105
 File No. 233/112 Drawing No. _____
 Date 1-5-80 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 47-017-2594

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

-- Denotes one inch spaces on border line of original tracing.

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

Date May 2, 1980

FORM IV-35
(Obverse)

Operator's Well No. Davis #1

[08-78,

WELL OPERATOR'S REPORT //
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47-017-259
State County Per

017-2594

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

LOCATION: Elevation: 1146 Watershed: Wolfpen Run
District: Greenbrier County: Doddridge Quadrangle: Big Isaac

WELL OPERATOR Stonewall Gas Company DESIGNATED AGENT Robert Horner
Address Box 1575, Richmond, Va. 23213 Address P.O. Box 225
Clarksburg, W. Va. 26301

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

PERMIT ISSUED ON Jan 24, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
Address 321 Beech St.
Clarksburg, W. Va.

GEOLOGICAL TARGET FORMATION: _____ Depth 5525 feet
Depth of completed well, 5529' feet Rotary / Cable Tools
Water strata depth: Fresh 45' & 75'; salt, --- feet.
Coal seam depths: 171-175 Is coal being mined in the area? No
Work was commenced 4-18-80, 1980, and completed 4-24-80, 1980

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11-3/4"					15'	--	Kinds
Fresh water								
Coal								Sizes
Intermediate	8-5/8"					1273'	1273'	To surface
Production	4-1/2"					5445'	5445'	200 Sx. Further set
Tubing								
Packers								Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Alexander & Benson Pay zone depth 5355-63 & 5019-33 feet
 Gas: Initial open flow, 33,000 Mcf/d Oil: Initial open flow, --- bbl/d
 Final open flow, 509M Mcf/d Final open flow, Show bbl/d
 Time of open flow between initial and final tests, 4 hours
 Static rock pressure, 1150# psig (surface measurement) after 72 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 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

FEB 24 1981

[08-78]

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

4-29-80^P Perf. Alexander 5356-62 w/14 holes. Frac w/ 15,000# 80/100 sand & 50,000# 20/40 sand in 675 bbls. sands laden fluid.
Perf. Benson 5020/32 w/14 holes. Frac w/15,000# 80/100 sand & 60,000# 20/40 sand in 700 bbls. sand laden fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay & fill			0	10	
Sand rock & sand			10	50	
Sand & shale			50	171	damp @ 45'
Sand			171	175	Wet @ 75@ - 1 1/2" stream
Sand			175	740	
Sand rock			740	745	Started Dusting @ 500'
Sand & shale			745	850	
Sand & shale			850	1307	
Little Lime			1307	2020	
Shale			2020	2040	Gas ck. @ 1805' - No show
g Line			2040	2090	
g Injun			2090	2126	
Shale			2126	2235	
Sand			2235	2291	
Sand & shale			2292	2365	Gas ck. @ 2331' - no show
Benson			2365	5019	Gas ck. @ 2800' 14/10" H ₂ O - 1"
Sand & Shale			5019	5034	Gas ck. @ 3293' 20/10" H ₂ O - 1"
Alexander ✓			5034	5355	Gas ck. @ 3727' 24/10" H ₂ O - 1"
Sand & Shale			5355	5363	Gas ck. @ 4319' 16/10" H ₂ O - 1"
TOTAL DEPTH			5363	5529	Gas ck. @ 5096' 5/10" H ₂ O - 2"
				5529	Gas ck. @ T.D. 19/10" H ₂ O - 1"

(Attach separate sheets to complete as necessary.)

Stonewall Gas Company
Well Operator
By Mark V. Schumacher
Trs Consulting Engineer

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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 24 1980

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 23 1980

Surface Owner Okey Cleavenger
Address Rt 3, Salem, WV 26426
Mineral Owner Mrs. Bernice L. Davis Agent
Address 102 Liberty St. Salem, WV 26426
Coal Owner Willis G. Tetrick Jr., etal
Address Union National Center, Clarksburg, WV
Coal Operator None
Address _____

Company Stonewall Gas Company
Address Box 1575, Richmond, WV 23213
Farm Bernice L. Davis Acres 51
Location (waters) Wolfpen Run
Well No. 1 Elevation 1146
District Greenbrier County Doddridge
Quadrangle Big Isaac 7.5'

PERMIT MUST BE POSTED AT THE WELL SITE

Conditions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if

operations have not commenced by 10-8-80

Robert H. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, WV

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 _____ 19____ by _____ made to _____ and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____
 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:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,

(Sign Name) _____

Well Operator

(Agent)

Address
of
Well Operator

P.O. Box 225

Street

Clarksburg,

City or Town

WV 26301

State

BLANKET ECHO

47-017-2594

PERMIT NUMBER

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 S.W. Jack Drilling Co. NAME J. Robert Hornor
 ADDRESS Buckhannon, WV ADDRESS P.O. Box 225, Clarksburg, WV
 TELEPHONE 472-9403 TELEPHONE 622-8231
 ESTIMATED DEPTH OF COMPLETED WELL: 5525 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	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
XXX 11 3/4	30	----	----
9 - 5/8			
8 - 5/8	1270'	1270'	To Surface
7			
5 1/2			
4 1/2	5520'	5520'	900' fillup
3			Perf. Top
2			Perf. Bottom
Lines			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40'+210 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 710-714
 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

 Official Title