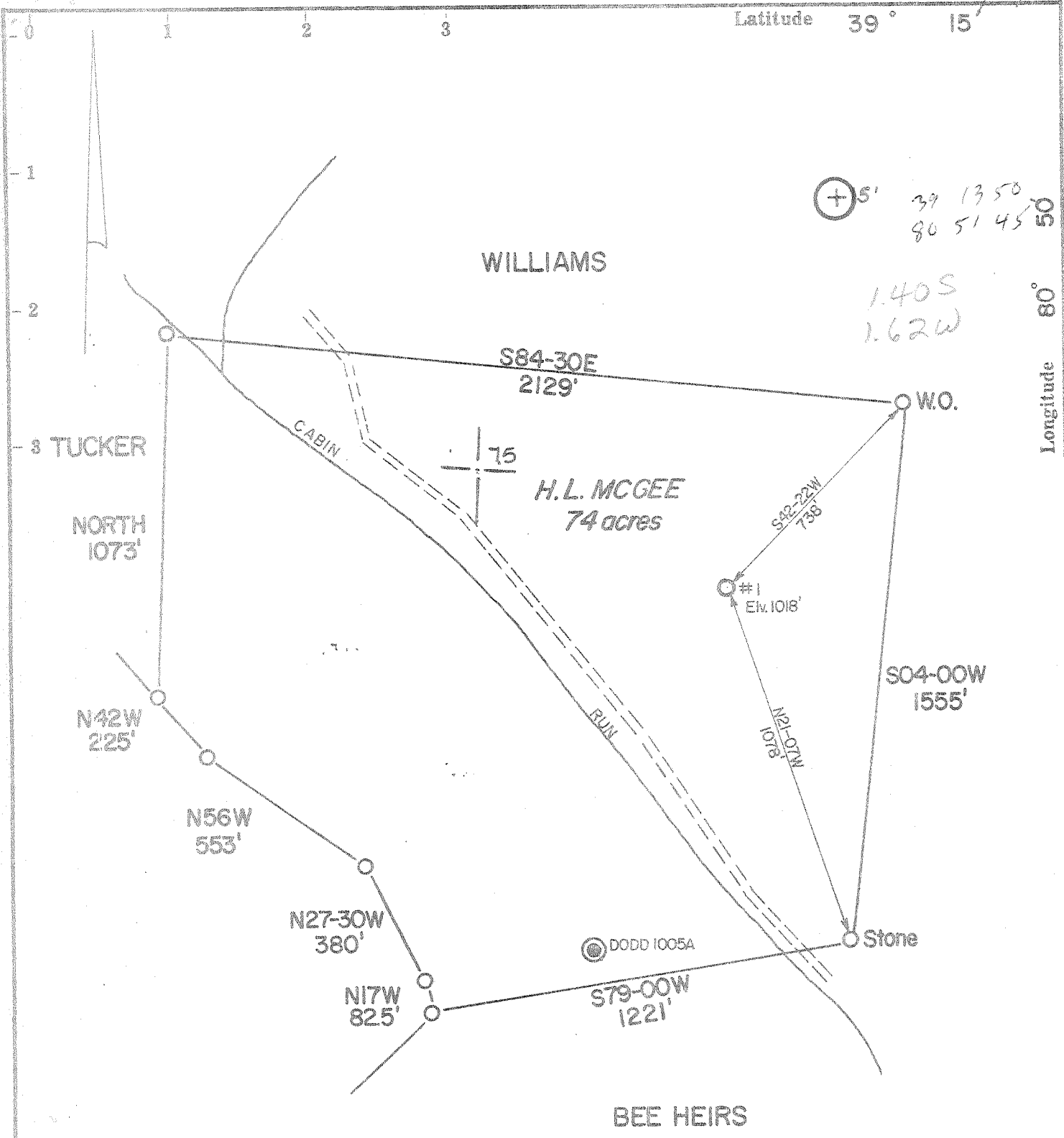


11/6/77



(+)^{5'} 39 13 50
80 51 45 50

1.40S
1.62W

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

Source of Elevation A'BD. WELL—DODD-1005-A-1012'

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 P.O. Box 1575, Richmond, Va. 23213

Farm H.L. MCGEE, D.B. ADAMS

Tract _____ Acres 74 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1018'

Quadrangle HOLBROOK OXFORD 7 1/2 NC

County DODDRIDGE District CENTRAL

Engineer R. M. McWilliam

Engineer's Registration No. L.L.S. 105

File No. Bk 233/Pg 44 Drawing No. _____

Date 11-4-77 Scale 1"=400'

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

WELL LOCATION MAP
FILE NO. DODD-2313

⊙ 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.

47-017 NOV 21 1978

6-6 H-4 STRANDER 133

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

Date May 15, 1979

FORM IV-35
(Obverse)

Operator's
Well No. L.S. McGee Etal #

[08-78]

WELL OPERATOR'S REPORT
OF

API Well No. 47-017-2313
State County Permit

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: 1018' Watershed: Calf Run of Cabin Run
District: Central County: Doddridge Quadrangle: Holbrook

WELL OPERATOR Stonewall Gas Company
Address P. O. Box 1575
Richmond, Va. 23213

DESIGNATED AGENT J. Robert Hornor
Address P.O. Box 225
Clarksburg, WV 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 Nov. 6, 1978

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED

Name P. W. Garrett
Address 321 Beech Street
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Berea - Weir Depth 2600 feet

Depth of completed well, 2633 feet Rotary / Cable Tools

Water strata depth: Fresh, 105 feet; salt, - feet.

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

Work was commenced 1-15, 1979, and completed 1-20, 1979

RECEIVED
AUG 16 1979

CASING AND TUBING PROGRAM

OIL & GAS DIVISION
DEPT. OF MINES

CASING 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"			X		30'	-	Kinds
Fresh water								Sizes
Coal								
Intermediate	8 5/8"	20#		X		341'	341'	to surface
Production	4 1/2"	10.5#		X		2563'	2563'	110 sxs. Depth set
Tubing	1 1/2" CW	2.75#		X		-	2280.80'	
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Weir Pay zone depth 2308-40 feet

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

Final open flow, 189 Mcf/d Final open flow, 5 Bbl/d

Time of open flow between initial and final tests, 15 hours

Static rock pressure, 930 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

AUG 24 1979

[08-78]

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

7-14-79

Perf. Weir 2308-16, 2328-31, 2338-40 w/14 holes (.41" dia.).
Frac. w/15,000# 80/100 sand and 45,000# 20/40 sand in 665 bbls.
total fluid.

Breakdown - 1500 psig
Avg. Pr. - 2500 psig
Avg. Rate - 31 BPM
ISDP - 2000 psig

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Red Rock	Red	Soft	0	20	
Shale	Gray	Soft	20	50	
Red Rock	Red	Soft	50	61	
Shale	Gray	Soft	61	93	
Red Rock	Red	Soft	93	101	
Shale	Gray	Soft	101	165	
Red Rock	Red	Soft	165	183	
Shale	Gray	Soft	183	192	
Red Rock	Red	Soft	192	199	
Shale	Gray	Soft	199	235	
Red Rock	Red	Soft	235	242	
Shale	Gray	Soft	242	289	
Red Rock	Red	Soft	289	320	
Shale	Gray	Soft	320	334	
Red Rock	Red	Soft	334	341	
Shale	Gray	Soft	341	345	
Red Rock	Red	Soft	345	352	
Shale	Gray	Soft	352	534	
Red Rock	Red	Soft	534	541	
Shale	Gray	Soft	541	550	
Red Rock	Red	Soft	550	557	
Shale	Gray	Soft	557	564	
Red Rock	Red	Soft	564	573	
Shale	Gray	Soft	573	576	
Red Rock	Red	Soft	576	582	
Shale	Gray	Soft	582	585	
Red Rock	Red	Soft	585	588	
Shale	Gray	Soft	588	732	
Salt Sand	White	Hard	732	745	
Shale	Gray	Soft	745	875	
Red Rock	Red	Soft	875	894	
Shale	Gray	Soft	894	967	
Sand	White	Hard	967	1000	
Shale	Gray	Soft	1000	1071	
Red Rock	Red	Soft	1071	1078	
Shale	Gray	Soft	1078	1090	
Sand	White	Hard	1090	1125	

OIT-2313
Page 2

(Attach separate sheets to complete as necessary)

Stonewall Gas Company
Well Operator

By M. V. Schumacher
Its 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."

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

Page 2
Stonewall Gas-L.S.McGee #1

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	Gray	Soft	1125	1227	
Sand	White	Hard	1227	1272	
Shale	Gray	Soft	1272	1400	
Sand	White	Hard	1400	1406	
Shale	Gray	Soft	1406	1500	
Sand	White	Hard	1500	1720	
Sand & Shale			1720	2000	
Lime	Gray	Hard	2000	2070	
Injun			2070	2132	
Shale			2132	2302	
Leir			2302	2428	
Shale			2428	2492	
Derea ✓			2492	2496	
Shale			2496	2633	
Total depth				2633	Drilled in on soap

017-2313
Page 3

(Attach separate sheets to complete as necessary)

Stonewall Gas Company

Well Operator

By M. V. Schumacher

Its 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

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
NOV - 6 1978
OIL & GAS DIVISION
DEPT. OF MINES

RF

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

DATE November 2, 1978

Surface Owner D. B. Adams
Address West Union, W.Va.
Mineral Owner L. S. McGee et al
Address 68 Station St. Shinnston, W.Va.
Coal Owner (Same as mineral owner)
Address _____
Coal Operator None
Address _____

Company Stonewall Gas Company
Address P. O. Box 1575, Richmond, Va. 23212
Farm H. L. McGee Acres 78 4
Location (waters) Calf Run of Cabin Run
Well No. One (1) Elevation 1018'
District Central County Doddridge
Quadrangle Holbrook

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 3-7-79 if operations have not commenced by 3-7-79

INSPECTOR

TO BE NOTIFIED

P. W. Garrett - 504

ADDRESS Clarksburg, W.Va.

PHONE 622-3871

[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 fee title thereto, (or as the case may be) under grant or lease dated October 23 1978 by Clarence W. Mutschelknaus made to J. Robert Hornor and recorded on the 27th day of October 1978, in Doddridge County, Book 105 Page 272

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.

Very truly yours, Stonewall Gas Company

(Sign Name) J. Robert Hornor

Well Operator

J. Robert Hornor, Agent

P. O. Box 1575

Street

Address of Well Operator

Richmond

City or Town

Virginia 23212

State

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

BLANKET BOND

BLANKET BOND

*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.

DODD-2313

PERMIT NUMBER

47-017

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 Glen L. Haught & Sons NAME J. Robert Hornor
 ADDRESS Smithville, W.Va. 20178 ADDRESS P. O. Box 225 Clarksburg, W.Va.
 TELEPHONE 477-3333 TELEPHONE 622-8231 or 622-3043
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Weir
 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			
13 - 10	20'	20'	
9 - 5/8			
8 - 5/8	350'	350'	Cement to surface
7			
5 1/2			
4 1/2	25	2500'	Cement 300' above any
3			Perf. Top producing sands.
2			Perf. _____
Liners			Perf. _____
			Perf. _____

APPROXIMATE FRESH WATER DEPTHS 80 - 100 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None
 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