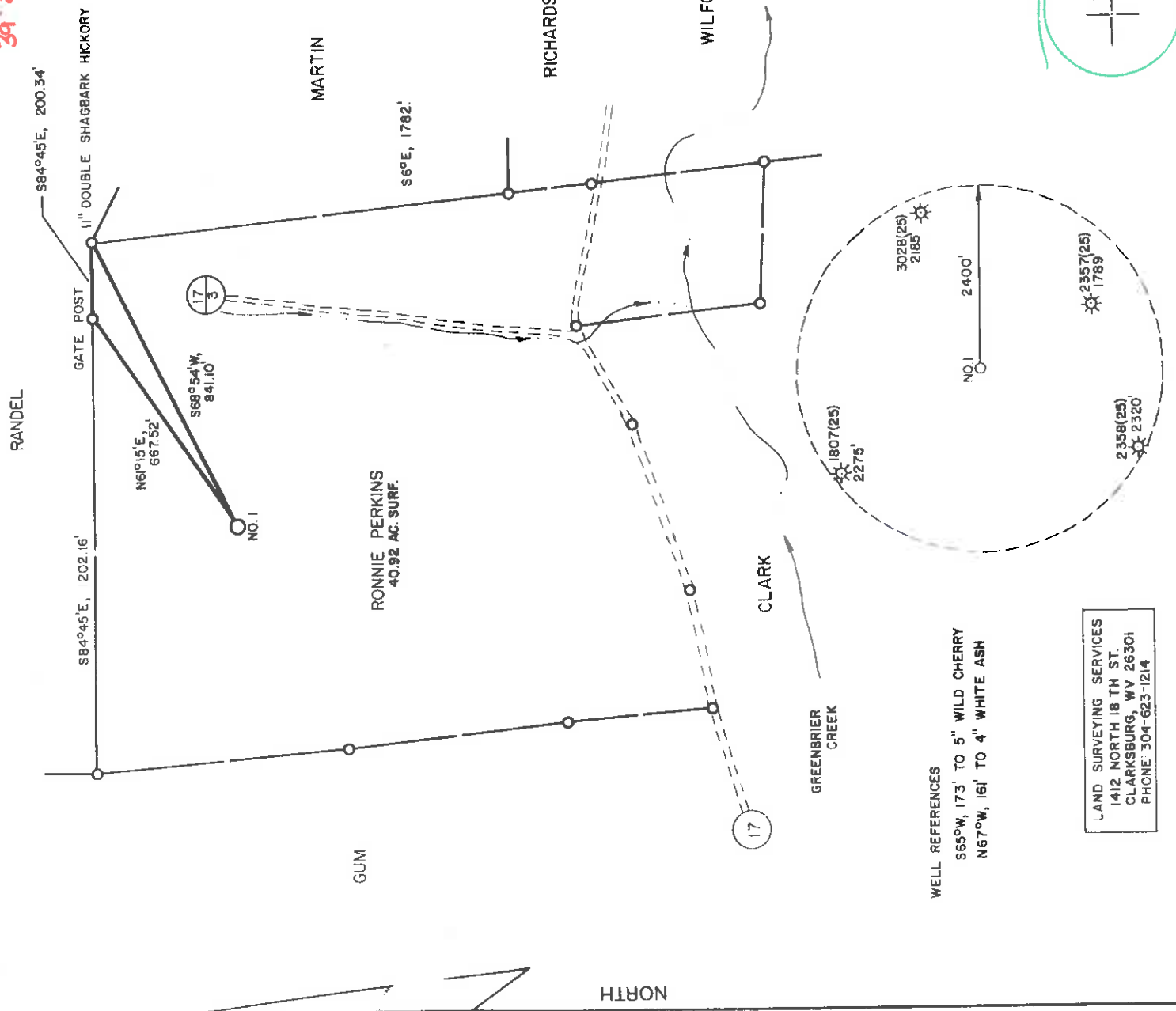


LATITUDE 39° 17' 30" **39° 20'**

LONGITUDE 80° 35' 00" 15.050



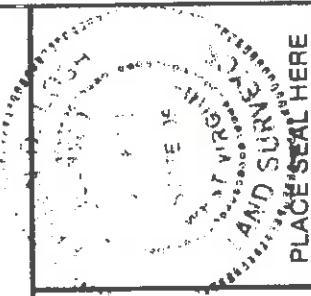
WELL REFERENCES
 S65°W, 173' TO 5" WILD CHERRY
 N67°W, 161' TO 4" WHITE ASH

LAND SURVEYING SERVICES
 1412 NORTH 18 TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 1039'
 SE OF LOCATION ELEV. 948'

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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE DECEMBER 17 19 84
 OPERATOR'S WELL NO. R. PERKINS NO. 1
 API WELL NO. _____

47-017-3394 STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1113 WATER SHED GREENBRIER CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE SALEM 7.5 minute 576 Centerpoint 15' SCX
 SURFACE OWNER RONNIE PERKINS, et. ux. 0.22 ACREAGE 40.92
 OIL & GAS ROYALTY OWNER RUTH ROGERS, et. al. LEASE ACREAGE 51.

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 5500'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P.O. DRAWER F ADDRESS P.O. DRAWER F
 847 BUCKHANNON, WV 26201

6-6 Meathouse Fork-Bristol (145)

JAN 14 1985

COUNTY NAME

PERMIT



Date January 28, 1985
 Operator's Farm Perkins
 Well No. Perkins #1 (271-S)
 Department of Mines
 Oil and Gas Division
 API No. 47 - 017 - 3394

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1113 Watershed Greenbrier Creek

District: Greenbrier County Doddridge Quadrangle Salem

COMPANY Stonewall Gas Company

ADDRESS PO Drawer F, Buckhannon, WV 26201

DESIGNATED AGENT Charles W. Canfield

ADDRESS PO Drawer F, Buckhannon, WV 26201

SURFACE OWNER Ronnie Perkins

ADDRESS Rt. 1, Box 326, Salem, WV. 26426

MINERAL RIGHTS OWNER Ruth Rogers et al

ADDRESS Rt. 50 West, Salem, WV 26426

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt. 2, Box 114, Salem,

PERMIT ISSUED January 4, 1985 WV

DRILLING COMMENCED January 8, 1985

DRILLING COMPLETED January 14, 1985

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	1767	1767	350 sks
7			
5 1/2			
4 1/2	5468	5468	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5423 feet Rotary X / Cable Tools Depth 5300 feet

Water strata depth: Fresh 60 feet; Salt N/A feet

Coal seam depths: 287

Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander

Gas: Initial open flow 180 Mcf/d Oil: Initial open flow N/A Bbl/d Pay zone depth 5300 feet

Final open flow 852 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 186 hours

Static rock pressure 1550 psig (surface measurement) after 186 hours shut in

(If applicable due to multiple completion--)

Second producing formation Balltown

Gas: Initial open flow 180 Mcf/d Oil: Initial open flow Show Bbl/d Pay zone depth 3525 feet

Final open flow 852 Mcf/d Oil: Final open flow N/A Bbl/d

Time of open flow between initial and final tests 186 hours

Static rock pressure 1550 psig (surface measurement) after 186 hours shut in

APR 15 1985

(Continue on reverse side)

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

Frac 01-29-85	Two Stage		
Perfs	Holes	BRKD	SAND
Elk 1000x 5090-5454	10	3800	75,000
			2000
		BBLs	ISIP
		750	75,000
		750	1800
<u>5000x</u> Balltown 2998-3525	9	3100	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red Rock	Red	H	0	40	Hole damp at 60'
Sand	Brown	S	40	60	
Sand	Brown	M	60	95	H ₂ O 85' 1/4" stream
Red Rock & Shale	Grey	M	95	150	
Shale	D. Grey	M	150	278	Gas @ 2458' No show
Coal	Black	H	278	282	
Sand & Shale	Grey	M	282	829	Gas @ 2875' 16/10 2" H ₂ O
Sand & Shale	Grey	M	829	1900	
Big Lime	Brown	S	1900	1948	Gas @ 3249' 14/10 2" H ₂ O
Shale	Grey	M	1948	1951	
Injun	Brown	S	1951	2052	Gas @ 3562' 22/10 2" H ₂ O
Sand & Shale	Grey	M	2052	3000	
Shale	Grey	H	3000	3680	Gas @ 4331' 20/10 2" H ₂ O
Balltown	Brown	M	3680	3847	
Shale	Grey	H	3847	4836	Gas @ 4652' 16/10 2" H ₂ O
Benson	Brown	M	4836	4857	
Shale & Sand	Brown	H	4857	5117	Gas @ 5160' 14/10 2" H ₂ O
Alexander	Brown	M	5117	5216	
Shale	Grey	H	5216	5423	Gas @ TD 20/10 2" H ₂ O
			TD	5423	

(Attach separate sheets as necessary)

STONEMALL GAS COMPANY
Well Operator
By: Bernice A. Hanky Vice President
Date: January 28, 1985

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 well, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

JAN - 4 1985
OIL & GAS DIV.
DEPT. OF MINES

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Undergrnd storage
 Elevation: 1113 Watershed: Greenbrier Creek Shallow
 District: Greenbrier County: Doddridge
 6) WELL OPERATOR: Stonewall Gas Company PO Drawer F, Greenbrier, WV 26201
 7) DESIGNATED AGENT: Charles W. Canfield, PO Drawer F, Greenbrier, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Mike Underwood (782-1043), Rt. 2, Box 114, Salem, WV 26426
 9) DRILLING CONTRACTOR: Name S. W. Jack Drilling Co., Address _____, Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill deeper Redrill Simulate
 Plug off old formation _____ Perforate new formation _____
 Other physical change in well (specify) Alexander

- 11) GEOLOGICAL TARGET FORMATION, _____
 12) Estimated depth of completed well, _____ feet
 13) Approximate traat depths: Fresh, 80 feet; salt, 1775 feet.
 14) Approximate coal seam depths: 1018-1025 feet; Is coal being mined in the area? Yes _____ No

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor	11 3/4				X	30	To surface
Fresh water							
Coal							
Intermediate	8 5/8			X		1467	
Production	4 1/2			X		5500	Rule 1505
Tubing							400 sks Rule 1505
Liners							
							Perforations: Top _____ Bottom _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3394 Date January 4, 1985

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires January 4, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
150	MAJ	MAJ	MAJ	1985

Margaret J. Case
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

