

27B 6/24/86

39 20

2125'

14,790'

LATITUDE 39°17'30" LONGITUDE 80°35'00"

CARD PLOT

PLAUGER

PLAUGER

PLAUGER

DAVIDSON

PLAUGER

PLAUGER

14" HICK
S 87°51' W, 217.54'
NO. 1
S 22° E
144.36'

6" LOCUST POST
S 45°57' W, 252.55'

N 88°50'18" E
922.08'

GUM

R. RANDEL
65 AC.

JENKINS

KOCH

RANDEL

RANDEL

3482(25)
1707'

2541(25)
1750'

NO. 1
2400'

3426(25)
1980'

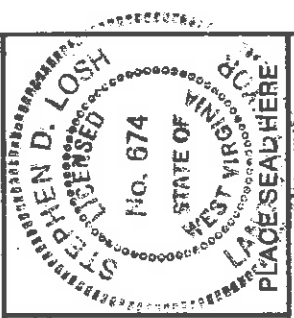
WELL REFERENCES:
S 56° W, 146' TO 6" B. WALNUT
N 04° 46' W, 94.90' TO F. POST

LAND SURVEYING SERVICES
1412 N. 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 RD. INTER. 2000' N.E.
OF LOCATION ELEV. - 1312'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.
(SIGNED) *Stephen D. Losh*
R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE JUNE 09 19 86
OPERATOR'S WELL NO. SMITH NO. 1
API WELL NO. _____

47-017-3507
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1450' WATER SHED GREENBRIER CREEK
DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
QUADRANGLE SALEM 7.5 min. 596 022 568 *Carterspoint*
SURFACE OWNER RIKK RANDEL
OIL & GAS ROYALTY OWNER RIKK RANDEL, et al. LEASE ACREAGE 67
ACREAGE 157.13

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 5800'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R
JANE LEW, WV 26378 JANE LEW, WV 26378

PERMIT
JUL 14 1986

V-4 Salem (10a)

SEP 12 1986



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WR-35

Date SEPTEMBER 4, 1986
Operator's
Well No. SMITH-RANDALL #1
Farm 356-S
API No. 47 - 017 - 3507

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1450 Watershed GREENBRIER CREEK
District: GREENBRIER County DODDRIDGE Quadrangle SALEM 7.5

COMPANY STONEWALL GAS COMPANY

ADDRESS PO DRAWER R, JANE LEW, WV 26378

DESIGNATED AGENT CHARLES W. CANFIELD

ADDRESS PO DRAWER R, JANE LEW, WV 26378

SURFACE OWNER RIKK & NANCY RANDALL

ADDRESS RT 1, BOX 328, SALEM, WV 26426

MINERAL RIGHTS OWNER SAME AS SURFACE

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK MIKE

UNDERWOOD ADDRESS RT 2, BOX 114, SALEM, WV 26426

PERMIT ISSUED JULY 10, 1986

DRILLING COMMENCED JULY 21, 1986

DRILLING COMPLETED JULY 27, 1986

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

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond. 11 3/4			
13-10"	243	243	25 SKS
9 5/8			
8 5/8	1807	1807	385 SKS
7			
5 1/2			
4 1/2	5910	5910	485 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION ALEXANDER Depth 5800 feet

Depth of completed well 5956 feet Rotary X / Cable Tools

Water strata depth: Fresh 75 feet; Salt 1280 feet

Coal seam depths: 920 Is coal being mined in the area? N/A

OPEN FLOW DATA

Producing formation ALEXANDER Pay zone depth 5754 feet

Gas: Initial open flow 100 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 1138 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 1750 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation BENSON Pay zone depth 5450 feet

Gas: Initial open flow 100 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 1138 Mcf/d Oil: Final open flow N/A Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 1750 psig (surface measurement) after 48 hours shut in

(Continue on reverse side)
SEP 22 1986

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

FRAC-2 ZONES	08-05-86	HOLE'S	BBL	SAND	BP	ISIP
ALEXANDER PERFS		14	800	70,000	2250	1600
<u>5754-5830</u>						
BENSON		12	700	70,000	2500	1680
<u>5454-60</u>						

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	BLACK	M	0	60	
SAND & SHALE	BROWN	M	60	120	½" STREAM H ₂ O 75'
SAND, SHALE, RED ROCK	BROWN	H	120	600	
SHALE & SAND	GREY	M	600	2500	GAS CK @ 3807' 30/10 2" H ₂ O
INJUN	BROWN	M	2500	2650	GAS CK @ 4320 30/10 2" H ₂ O
SAND & SHALE	BROWN	M	2650	3050	
STRAY	BROWN	M	3050	3170	GAS CK @ 5492' 24/10 2" H ₂ O
GORDON	BROWN	M	3170	3248	
SPEECHLY	BROWN	S	3760	3790	GAS CK @ 5870' 22/10 2" H ₂ O
BALLTOWN	BROWN	H	4250	4300	
BENSON	BROWN	M	5450	5460	
BENSON	BROWN	M	5750	5850	GAS CK AT TD 60/10 2" H ₂ O
ALEXANDER	BROWN	H	5956		
			<u>TD</u>		

(Attach separate sheets as necessary)

STONEMALL GAS COMPANY
Well Operator

By: Benjamin A. Hardesty
BENJAMIN A. HARDESTY, VICE PRESIDENT

Date: _____

Note: Regulation 2.02(f) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including _____, encountered in the drilling of a well."



1) Date: JUNE 13, 1986
 2) Operator's Well No. SMITH #1 (RANDEL)
 3) API Well No. 47 017 -3507 State County Permit

RECEIVED
 JUN 20 1986

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

4) **REMARKS:** A Oil Gas B (if "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 1450' Watershed: GREENBRIER CREEK
 District: GREENBRIER 414 County: DODDRIDGE Quadrangle: SALEM 7'5
 6) WELL OPERATOR STONEWALL GAS COMPANDE: 47830 7) DESIGNATED AGENT CHARLES W. CANFIELD
 Address P.O. DRAWER R Address P.O. DRAWER R
JANE LEW, WV 26378 Address JANE LEW, WV 26378
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name MIKE UNDERWOOD (782-1043) 9) DRILLING CONTRACTOR:
 Address ROUTE 2, BOX 114 Address BUCKHANNON, WV 26201
SALEM, WV 26426

10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) ALEXANDER 459
 11) GEOLOGICAL TARGET FORMATION, 5800' feet
 12) Estimated depth of completed well, 5800' feet
 13) Approximate true depths: Fresh, 73 feet; salt, 1775 feet.
 14) Approximate coal seam depths: 535 - 538 feet; Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	Left in well		
Conductor	11 3/4"			40'	TO SURFACE	
Fresh water						
Coal						
Intermediate	8 5/8"		X	1807'	385 sks.	
Production	4 1/2"		X	5800'	520 sks.	
Tubing						
Lin...						

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3507 Date July 10, 1986

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 July 10, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>A.B.</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>3033</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: <u>AS</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

John W. Johnston
 Director, Division of Oil and Gas
 File 47-017-3507-1

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

