

12/28/01

25 220'

LATITUDE 39°22'30"

WELL REFERENCES:
S 37°E, 158' TO 14" HICKORY
N 34°30'E, 132' TO 14" SYCAMORE

BUCK

SIMPSON

J. S. BUCK
38 AC.

N 03°E
1900'

BAGLEY

NO. 1

502°55'E 695.73
N 00°05'W 923.84

4.225
2.27w

(20 AC.)

(18 AC.)

495'

440'

N 87°15'W

48" SUGAR
S 08°25'W
231.51'

ST. PILE
957'
S 71°30'W

BUCK

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

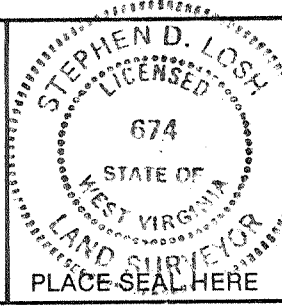
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF
ACCURACY 1 in 200
PROVEN SOURCE OF
ELEVATION RD. INTER. 1250' W. OF
LOCATION ELEV. - 887'

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 DECEMBER 02, 19 87
OPERATOR'S WELL NO. BUCK NO. 1
API WELL NO.

47 017 3623

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 892' WATERSHED CAMP MISTAKE RUN
DISTRICT WEST UNION 8 COUNTY DODDRIDGE
QUADRANGLE WEST UNION 7.5 min. 671 1336 20
SURFACE OWNER JAMES S. BUCK ACREAGE 18
OIL & GAS ROYALTY OWNER JAMES S. BUCK LEASE ACREAGE 38

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 BENSON ESTIMATED DEPTH 5100'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R
JANE LEW, WV 26378 JANE LEW, WV 26378

JAN 4 1988

6-6 Wilbur (92)

80°47'30" LONGITUDE
7140'

NORTH

FORM WW-6
H.T. HALL 48673

WR-35

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date FEBRUARY 16, 1988
Operator's
Well No. 366-S
Farm BUCK #1
API No. 47-017-3623

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: 892' Watershed CAMP MISTAKE RUN
District: WEST UNION County DODDRIDGE Quadrangle WEST UNION 7.5'

COMPANY STONEWALL GAS COMPANY
ADDRESS P.O. DRAWER R, JANE LEW, WV 26378
DESIGNATED AGENT CHARLES W. CANFIELD
ADDRESS P.O. DRAWER R, JANE LEW, WV 26378
SURFACE OWNER JAMES S. BUCK
ADDRESS RT 1, BOX 34, ALDIE, VA 22001
MINERAL RIGHTS OWNER SAME AS ABOVE
ADDRESS RT 1, BOX 34, ALDIE, VA 22001
OIL AND GAS INSPECTOR FOR THIS WORK MIKE
UNDERWOOD ADDRESS RT 1, SALEM, WV 26426
PERMIT ISSUED DECEMBER 29, 1987
DRILLING COMMENCED JANUARY 17, 1988
DRILLING COMPLETED FEBRUARY 01, 1988
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. | | | |
| 11 3/4" 13-10" | 171 | 171 | 75 SKS |
| 9 5/8 | | | |
| 8 5/8 | 1266 | 1266 | 300 SKS |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 4985 | 4985 | 220 SKS |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION BENSON Depth 4820 feet
Depth of completed well 4985 feet Rotary x / Cable Tools ___
Water strata depth: Fresh 55 feet; Salt 1200 feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation BENSON Pay zone depth 4820 feet
Gas: Initial open flow 47 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 462 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 120 hours
Static rock pressure 1425 psig (surface measurement) after 16 hours shut in
(If applicable due to multiple completion--)
Second producing formation RILEY Pay zone depth 4390 feet
Gas: Initial open flow 47 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 462 Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests 120 hours
Static rock pressure 1425 psig (surface measurement) after 16 hours shut in

MAR 18 1988

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

FRAC TWO STAGES 2/22/88

| PERFS | HOLES | BBL | SAND | B.D. | I.S.I.P. |
|------------------------------|-------|-----|--------|-------|----------|
| <u>BENSON</u> 4814 - 4820 | 18 | 740 | 60,000 | 1900# | 1650# |
| <u>RILEY</u> 4384 - 4390 | 18 | 475 | 30,000 | 3500# | 1900# |

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|-------------------------------|-------|--------------|-------------|-------------|--|
| TOP SOIL | BLACK | SOFT | 0 | 10 | WET @ 55' 3 1/2" STREAM |
| SAND, SHALES & RED ROCK | RED | SOFT | 10 | 320 | |
| SAND & SHALES | GRAY | SOFT | 320 | 1790 | HOLE WET @ 340 1/2" STREAM |
| BIG LIME | GRAY | HARD | 1790 | 1850 | |
| BIG INJUN | GRAY | SOFT | 1850 | 1980 | GAS @ 1922 10/10 2" H ² O |
| GORDON | GRAY | SOFT | 2540 | 2590 | GAS @ 2619 8/10 1" H ² O |
| RILEY | GRAY | SOFT | 4310 | 4390 | GAS @ 4483 20/10 1" H ² O |
| BENSON | BROWN | HARD | 4810 | 4850 | GAS @ 4995 38/10 1" H ² O |
| T.D. | | | <u>5023</u> | | GAS @ T.D. 28/10 1" H ² O |

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

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

Date: MARCH 2, 1988

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."
6476

2/18/87
12/29/89

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

- 1) Well Operator: STONEWALL GAS COMPANY *47850, 8, 670*
- 2) Operator's Well Number: BUCK #1 366-S 3) Elevation: 892'
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): BENSON *SS*
- 6) Proposed Total Depth: 5100 feet
- 7) Approximate fresh water strata depths: 150', 910' possibly?
- 8) Approximate salt water depths: N/A 1375'
- 9) Approximate coal seam depths: *possibly* N/A 252'-256', 520'-533'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
From 438, 607, 1009, 2919 Oddidge
- 11) Proposed Well Work:
- 12)

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|---------------|-------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | Fill-up (cu. ft.) |
| Conductor | 11 3/4 | | 42 | 30 | 30 <i>CTS</i> | 38CSR18-11.3 |
| Fresh Water | | | | | | |
| Coal | | | | | <i>CTS</i> | 38CSR18-11.2.2 |
| Intermediate | 8 5/8 | ERW | 23 | 1192 | 1192 | 38CSR18-11.3 |
| Production | 4 1/2 | ERW | 10.5 | 5100 | 5100 | S8CSR18-11.1 |
| Tubing | | | | | | |
| Liners | | | | | | |

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PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket Agent
(Type)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: DECEMBER 4, 1987
- 2) Operator's well number
BUCK #1 366-S
- 3) API Well No: 47 - 017 - 3623
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name JAMES S, BUCK
Address RT 1, BOX 34
ALDIE, VA 22001
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2, BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration
Name JAMES S. BUCK
Address SAME AS SURFACE
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name N/A
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator STONEWALL GAS COMPANY
By: Bevin Anthony
Its: VICE PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 9 day of DECEMBER, 19 87

Richard K. Edwick
My commission expires _____

OCT 14, 93

~~XXXXXXXXXXXXXXXXXX~~
COMMISSIONER OFFW