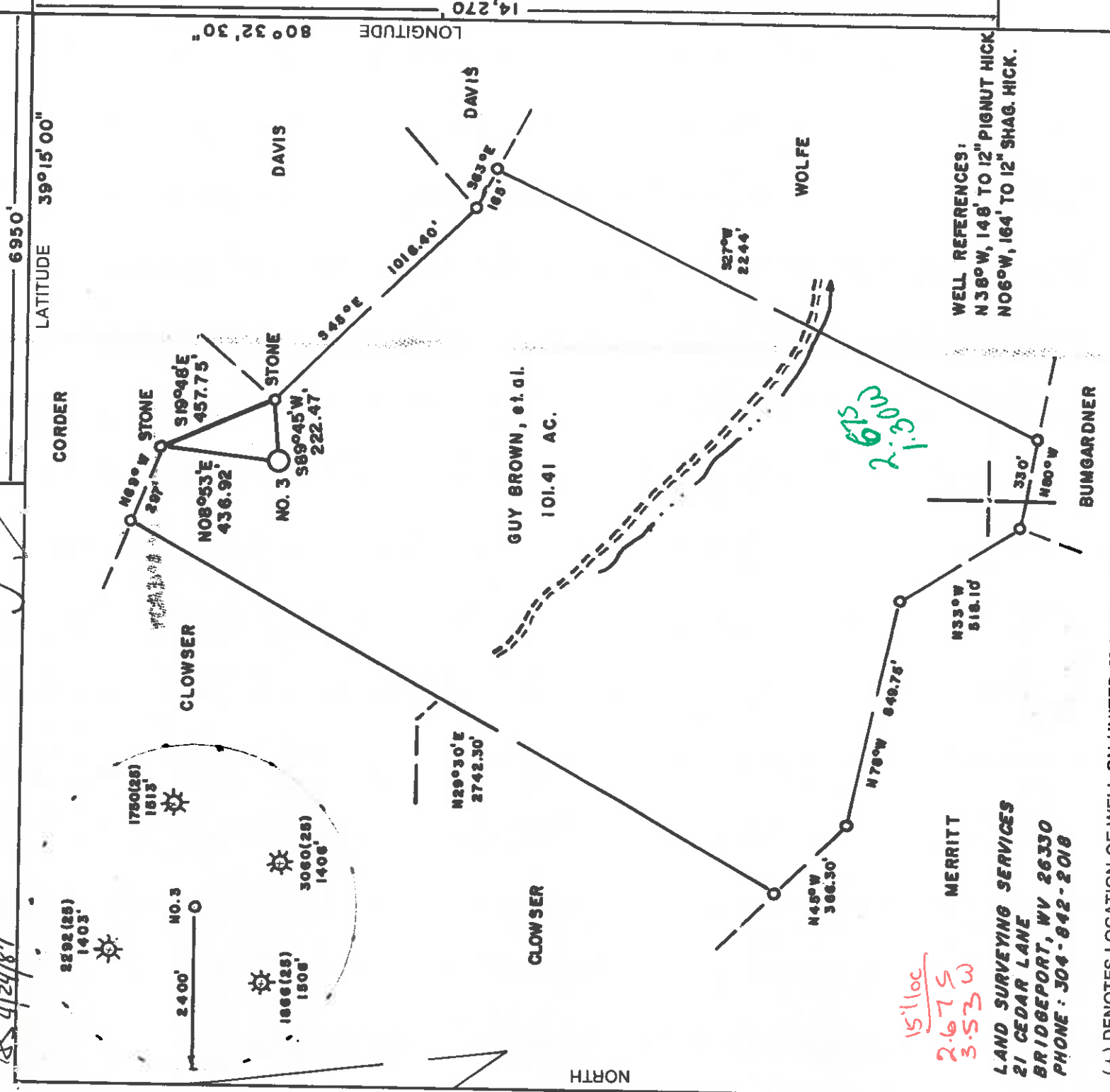


AS 4/24/87

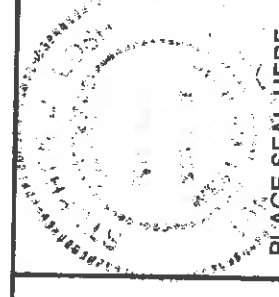


MERRITT
 LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE : 304-842-2018

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF _____
 ACCURACY 1 in 200
 PROVEN SOURCE OF _____
 ELEVATION TOP OF KNOB 1150' S.W.
 OF LOCATION ELEV. - 1430'

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 ENERGY.
 (SIGNED) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH PLACE SEAL HERE



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE FEBRUARY 28, 19 87
 OPERATOR'S WELL NO. BROWN NO. 3
 API WELL NO. 47-017-3848

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL _____
 (IF "GAS.") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1291 WATER SHED LITTLE ISAAC CREEK
 DISTRICT GREENBRIER 4 COUNTY OODDRIDGE
 QUADRANGLE BIG ISAAC 7.8 min. Davis NE
 SURFACE OWNER JOHN S. GLOWSER ACREAGE 101.41
 OIL & GAS ROYALTY OWNER MARY WILLIAMS LEASE ACREAGE 101.41

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 ELK ESTIMATED DEPTH 5650'
 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
 SEP 14 1990

DODD
 COUNTY NAME

6-6 Meathouse Fork Bristol (146)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Brown #3

Well Operator's Report of Well Work

Farm name: CLOWSER, JOHN S Operator Well No.: 174-S

LOCATION: Elevation: 1291.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 14270 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 6950 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: STONEWALL GAS COMPANY

909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 09/11/90
Well work Commenced: 10-15-90
Well work Completed: 10-21-90
Verbal Plugging
Permission granted on: Rig
Rotary X Cable
Total Depth (feet) 5720
Fresh water depths (ft) 70
Salt water depths (ft) 160, 1210, 1290, 1342
Is coal being mined in area (Y/N)? N
Coal Depths (ft):

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 1 3/4 | 254 | 254 | 154 SKS |
| 8 5/8 | 1408 | 1408 | 300 SKS |
| 4 1/2 | 5642 | 5642 | 652 SKS |

OPEN FLOW DATA

Producing formation ALEXANDER
 Gas: Initial open flow 66 MCF/d Oil: Initial open flow (ft) 5435
 Final open flow 3251 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours
 Second producing formation BENSON
 Gas: Initial open flow 66 MCF/d Oil: Initial open flow (ft) 5096
 Final open flow 3251 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS COMPANY

By: *Ray M. Frear, Jr.* RAY M. FREAR, JR.
Date: DECEMBER 3, 1990

DEC 14 1990

| PAGE | 2 | FRAC | WATER | DATE | 10/30/90 | BP | ISTP |
|-----------|---|------|-----------|-------|----------|------|------|
| ONES | | | PERFS | HOLES | BBL | 2100 | 1590 |
| ALEXANDER | | | 5435-5445 | 20 | 700 | 2180 | 1520 |
| ENSON | | | 5096-5106 | 24 | 700 | | |

| FORMATION | COLOR | HARD/SOFT | TOP | BOTTOM | REMARKS |
|-----------------|-------|-----------|------|--------------------|--------------|
| BKL | BROWN | 0 | 10 | HOLE DAMP 70' 1/2" | STREAM |
| HALE & RR | GRAY | 10 | 50 | | |
| HALE | GRAY | 50 | 70 | GAS CK 2367 | NO SHOW |
| R | RED | 70 | 113 | GAS CK 3015 | 50/10 1" W/W |
| R & SHALE | GRAY | 113 | 160 | GAS CK 5171 | 20/10 1" W/W |
| AND | BROWN | 160 | 190 | | |
| R & SHALE | BROWN | 190 | 250 | GAS CK 5550 | 40/10 1" W/W |
| AND & SHALE | BROWN | 250 | 439 | | |
| AND, SHALE & RR | GRAY | 439 | 622 | | |
| AND | BROWN | 622 | 651 | GAS CK TD 30/10 | 1" W/W |
| R & SHALE | GRAY | 651 | 780 | | |
| AND, SHALE, RR | GRAY | 780 | 800 | GAS CK DC 18/10 | 1" W/W |
| AND, SHALE | GRAY | 800 | 970 | | |
| HALE & RR | GRAY | 970 | 1030 | | |
| AND & SHALE | BROWN | 1030 | 1140 | | |
| AND & SHALE | BROWN | 1140 | 1190 | | |
| HALE & RR | BROWN | 1190 | 1220 | | |
| AND | GRAY | 1220 | 1345 | | |
| AND & SHALE | GRAY | 1345 | 1380 | | |
| HALE & RR | GRAY | 1380 | 1830 | | |
| AND & SHALE | BROWN | 1830 | 1900 | | |
| AND | BROWN | 1900 | 2149 | | |
| AND & SHALE | BROWN | 2149 | 2187 | | |
| HALE & LIME | BROWN | 2187 | 2327 | | |
| BIG LIME | GRAY | 2327 | 2360 | | |
| UNJUN SAND | GRAY | 2360 | 2790 | | |
| AND & SHALE | GRAY | 2790 | 2814 | | |
| JORDON STRAY | BROWN | 2814 | 2838 | | |
| HALE | GRAY | 2838 | 2940 | | |
| JORDON | GRAY | 2940 | 3945 | | |
| AND & SHALE | GRAY | 3945 | 4110 | | |
| ALLTOWN | GRAY | 4110 | 4950 | | |
| AND & SHALE | BROWN | 4950 | 4980 | | |
| RILEY | GRAY | 4980 | 5093 | | |
| AND & SHALE | GRAY | 5093 | 5145 | | |
| BENSON | GRAY | 5145 | 5433 | | |
| AND & SHALE | GRAY | 5433 | 5536 | | |
| ALEXANDER | GRAY | 5536 | 5720 | | |
| AND & SHALE | GRAY | 5720 | | | |
| TD | | | | | |

111 41

017-3848
Dated 9/11/90
Page of
Expires 9/11/92

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (4) 252
- 2) Operator's Well Number: 174-S 3) Elevation: 1291
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Undergound Storage
Deep / Shallow
- 5) Proposed Target Formation(s): ELK 437
- 6) Proposed Total Depth: 5650 feet
- 7) Approximate fresh water strata depths: 110
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 787
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work:
- 12)

RECEIVED
Division of Oil and Gas
AUG 22 90
Permitting
Oil and Gas Section

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|--------------|-------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | 11 3/4 | | 28 | 250 | 250 | Fill-up (cu. ft.) |
| Fresh Water | | | | | | CEMENT TO SURFACE |
| Coal | | | | | | <i>M.P.D.G.</i> |
| Intermediate | 8 5/8 | | 20 | 1401 | 1401 | RULE 15.05 |
| Production | 4 1/2 | | 10.5 | 5650 | 5650 | RULE 15.01 |
| Tubing | | | | | | 560 SKS |
| Liners | | | | | | |

PACKERS : Kind
Sizes
Depths set

- 017-3848*
- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
- Plat WW-9 WW-2B Bond C.O.D (Type)
 Agent

1) Date: August 8, 1990
2) Operator's well number
Brown #3 (174-S)
3) API Well No: 47 - 017 - 3848
State - County

Permitting

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

DIVISION OF ENERGY
AUG 22 90

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Permitting
Oil and Gas Section

4) Surface Owner(s) to be served:

(a) Name JOHN S. CLOWSER
Address RT 3, BOX 27A
SALEM, WV 26426

5) (a) Coal Operator:
Name N/A
Address

(b) Name
Address

(b) Coal Owner(s) with Declaration
Name WILLIS G. TETRICK, ET AL
Address BOX 267
CLARKSBURG, WV 26301

(c) Name
Address

Name
Address

6) Inspector MIKE UNDERWOOD

Address RT 2, BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

(c) Coal Lessee with Declaration
Name CHEVRON COAL DEV. CO., LAND DEPT
Address PO BOX 7147, SAN FRANCISCO,
CA 94120-7147 CONOCO, INC., 1007
MARKET ST., WILMINGTON, DEL 19898

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

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)

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: *Jane Lew*

Its:

Address PO DRAWER R
JANE LEW, WV 26378-0080

Telephone 304-884-7881
20TH day of AUGUST, 1990



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
DOROTHY QUEEN
POST OFFICE DRAWER R
JANE LEW, WV 26378

My commission expires MARCH 14, 2000

Notary Public