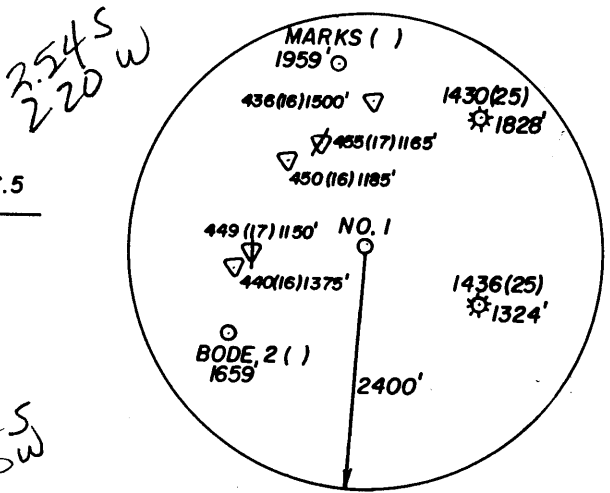
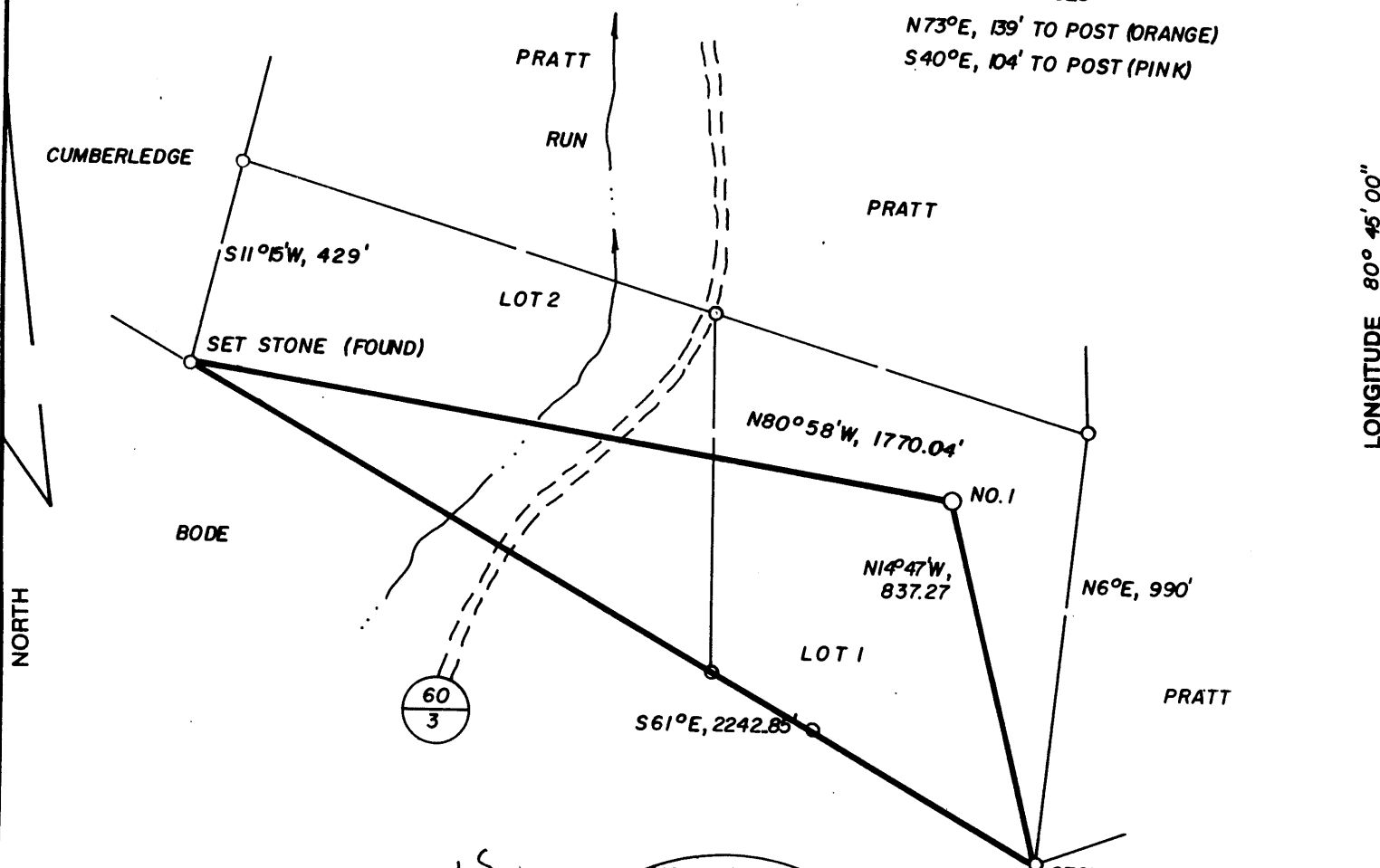


June
5/17/91

1163°
LATITUDE 39°25'00"

WELL REFERENCES:
N73°E, 139' TO POST (ORANGE)
S40°E, 104' TO POST (PINK)



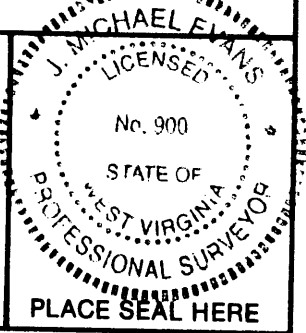
Handwritten notes:
 - 2.54S
 - 2.20W
 - 7.5
 - 2.54S
 - 2.20W

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE : 304 - 842-2008

(+) 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. INT. 1900' NW. OF LOC. AT ELEV. 822'

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) J. Michael Evans
 R.P.E. _____ L.L.S. NO. 900
 J. MICHAEL EVANS



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 20, 19 91
 OPERATOR'S WELL NO. DOLL 1
 API WELL NO. 47-095-1464
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 904' WATER SHED PRATT RUN
 DISTRICT McELROY S COUNTY TYLER
 QUADRANGLE SHIRLEY W Union

SURFACE OWNER ANITABELLE DOLL, ET. VIR. ACREAGE 18.25
 OIL & GAS ROYALTY OWNER A. DOLL, ET. AL. LEASE ACREAGE 18.25
 LEASE NO. _____

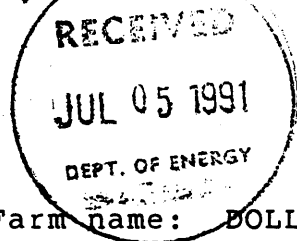
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5200'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE SHELL
 ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R
 JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

MAY 31 1991

FORM WW-6

COUNTY NAME
 PERMIT



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

Well Operator's Report of Well Work

Farm name: DOLL, WAYNE & ANITA Operator Well No.: DOLL 1 (588S)

LOCATION: Elevation: 904.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 13325 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude: 11650 Feet West of 80 Deg. 45 Min. 0 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: 05/27/91
Well work Commenced: 06-06-91
Well work Completed: 06-13-91
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5040
Fresh water depths (ft) 45, 275

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 90, 525

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11 3/4	127	127	81 SKS
8 5/8	1018	1018	235 SKS
4 1/2	4962	4962	710 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4856
Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2208 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1525 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4422
Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2208 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1525 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: [Signature] RAY M. FREAR, J
Date: JULY 3, 91 PETROLEUM ENGINEER

JUL 16 1991

ZONES	2	STAGES	WATER	FRAC	06-20-91	DATE
BENSON	PERFS		HOLES		BBL	BP
RILEY	4856-4860		16	600		1610
	4422-4428		18	600		2120
						ISIP
						1740
						1740

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
FILL	BROWN	SOFT	0	3	GAS CK 1868 22/10 2" W/W
SAND & SHALE	GRAY	SOFT	3	90	GAS CK 1898 16/10 2" W/W
COAL	BLACK	SOFT	90	95	1928 21/10 2" W/W
SAND & SHALE	GRAY	HARD	95	170	1959 32/10 2" W/W
SAND	BROWN	HARD	170	215	1991 20/10 2" W/W
SAND & SHALE	GRAY	HARD	215	265	2300 12/10 2" W/W
SAND	BROWN	SOFT	265	310	2673 16/10 2" W/W
SAND & SHALE	GRAY	HARD	310	380	2827 12/10 2" W/W
RR & SHALE	GRAY	HARD	380	525	3359 12/10 2" W/W
COAL	BLACK	SOFT	525	528	3949 12/10 2" W/W
SAND	BROWN	SOFT	528	543	4478 20/10 2" W/W
SHALE & RR	GRAY	HARD	543	782	4912 20/10 2" W/W
SAND	BROWN	HARD	782	804	5040 20/10 2" W/W
SHALE & RR	GRAY	SOFT	804	1022	
SAND & SHALE	GRAY	SOFT	1022	1772	
BIG LIME	BROWN	HARD	1772	1840	
BIG INJUN	BROWN	HARD	1840	1990	
SAND & SHALE	GRAY	SOFT	1990	2550	
GORDON	BROWN	SOFT	2550	2565	
SAND & SHALE	GRAY	HARD	2565	4400	
RILEY	BROWN	HARD	4400	4415	
SAND & SHALE	BROWN	SOFT	4415	4845	
BENSON	GRAY	SOFT	4845	4905	
SAND & SHALE	GRAY	SOFT	4905	5040	
D			5040		

12223

095-1464
 Issued 5/27/91
 Page ___ of ___
 Expires 5/27/93

FORM WW-2B

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

- 1) Well Operator: ⁸⁴⁷ STONEWALL GAS COMPANY 47850 (5) 606
- 2) Operator's Well Number: DOLL #1 (588-S) 3) Elevation: 904'
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production ___ / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5040 feet
- 7) Approximate fresh water strata depths: 30', 90', And 300'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"		27#	130'	130'	OK
Fresh Water						38 CSR 11.3 38 CSR 11.2.2
Coal						
Intermediate	8 5/8"		20#	1000'	1000'	
Production	4 1/2"	J-55	10.5#	4980'	4980'	38 CSR 11.1
Tubing						
Liners						REMOVED

PACKERS : Kind _____
 Sizes _____
 Depths set _____

Division of Energy
 MAY 07 91
 Permitting
 Oil and Gas Section

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCB

Plat WW-9 WW-2B Bond C.D. Blanket Agent

1) Date: MAY 6, 1991
2) Operator's well number
DOLL #1 (588-S)
3) API Well No: 47 - 095 - 1464
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

MAY 07 91

4) Surface Owner(s) to be served:
(a) Name WAYNE & ANITA BELLE DOLL
Address SHIRLEY, WV 26434

(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE
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 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: [Signature]
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 6TH day of MAY, 19 91

[Signature]
My commission expires MARCH 14, 2000

OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
DORCENY-QUEEN
POST OFFICE DRAWER R
JANE LEW, WV 26378
My Commission Expires _____