

Janice
7/5/91

LATITUDE 39°22'30"

7.5'

0.05
1.02

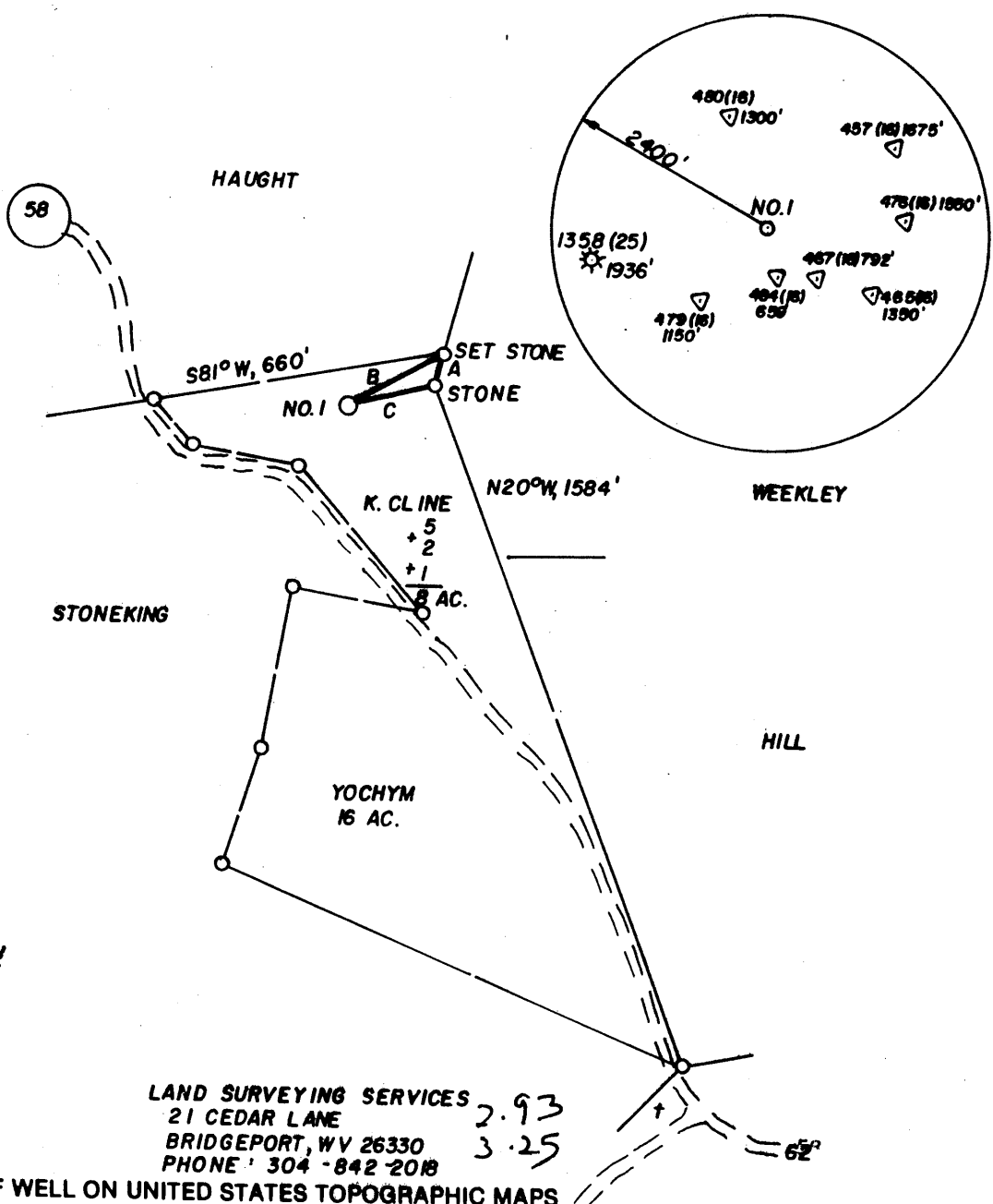
WELL REFERENCES:

N47°W, 156' TO 18" HICKORY SNAG

N14°E, 118' TO 30" BLACK OAK

NORTH

LONGITUDE 80°47'30"



TIE LINES

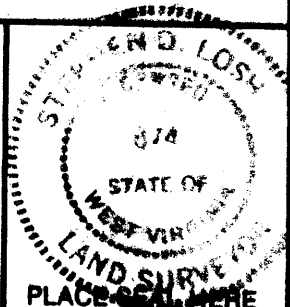
- A) N15°E, 69.24'
- B) S63°04'W, 241.51'
- C) N77°51'E, 201.92'

LAND SURVEYING SERVICES 2.93
21 CEDAR LANE 3.25
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 TOP KNOB 2030' S.
AT 1208'

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) [Signature]
R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE APRIL 28, 19 91
OPERATOR'S WELL NO. CLINE 1
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1217' WATERSHED CAMP MISTAKE RUN
DISTRICT McELROY 5 COUNTY TYLER
QUADRANGLE WEST UNION

SURFACE OWNER KIM CLINE ACREAGE 8
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____

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. 947 DESIGNATED AGENT JESSE SHELL
ADDRESS P. O. DRAWER R ADDRESS _____ (OFFICE)
JANE LEW, WV 26378-0080

JUL 16 1991

FORM WV-6

COUNTY NAME
PERMIT

6-6 W 12/15/92

WR-35

08-Jul-91

API # 47-95-01474

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

Well Operator's Report of Well Work

Farm name: CLINE, KIM & HELEN Operator Well No.: CLINE 1 593 S

LOCATION: Elevation: 1217.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER
Latitude: 350 Feet South of 39 Des. 22Min. 30 Sec.
Longitude: 5430 Feet West of 80 Des. 47 Min. 30 Sec.

Company: STONEWALL GAS COMPANY

909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23213-0000

Asent: JESSE A. SNELL

Inspector: MIKE UNDERWOOD

Permit Issued: 07/10/91

Well work Commenced: 06-06-92

Well work Completed: 06-15-92

Verbal Flowing

Permission granted on:

Rotary Cable _____ Ris _____

Total Depth (feet) 5300

Fresh water depths (ft) 50, 95,
240, 425,

Salt water depths (ft) 1110

Is coal being mined in area (Y/N)? N

Coal Depths (ft): N/R

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Co. Ft.
11 3/4	106	106	65 SKS
8 5/8	1145	1145	295 SKS
4 1/2	5266	5266	780 SKS

OPEN FLOW DATA

Producing formation BENSON/RILEY Pay zone depth (ft) 4720
 Gas: Initial open flow 66 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 3069 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 Hours
 Static rock Pressure 1450 psig (surface pressure) after 168 Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ 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, JR.
Date: JULY 13, 1992 PETROLEUM ENGINEER

66

Wilbur

(092)

095 1474

1	STAGE	WATER	FRAC	DATE	06-23-92	
ZONES	PERFS	HOLES		BBL	BP	ISIP
BENSON/RILEY	4720	1				
	4723	1	700		1650	1600
	5140-5146	18				

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
RED ROCK	RED	HARD	0	5	
RR & SHALE	GRAY	HARD	5	15	GAS CK @ 2055 NO SHOW
SAND & SHALE	GRAY	HARD	15	55	2149 NO SHOW
SAND	BROWN	SOFT	55	90	2181 NO SHOW
RR & SHALE	BROWN	SOFT	90	100	
SAND	GRAY	SOFT	100	105	2213 4/10 1/4 W/W
SAND & SHALE	GRAY	HARD	105	141	2244 4/10 1/4 W/W
SHALE & RR	GRAY	HARD	141	230	2276 3/10 1/4 W/W
SAND & SHALE	BROWN	SOFT	230	258	
SHALE & RR	BROWN	SOFT	258	425	2895 26/10 1" W/W
SAND & SHALE	GRAY	SOFT	425	730	3207 14/10 1" W/W
SAND	GRAY	HARD	730	850	
SAND & SHALE	GRAY	HARD	850	925	4763 8/10 1" W/W
RR & SHALE	RED	HARD	925	1103	5228 40/10 1" W/W
SAND	GRAY	HARD	1103	1120	5300 40/10 1" W/W
RR & SHALE	BROWN	SOFT	1120	1615	
SAND	GRAY	SOFT	1615	1665	
SAND & SHALE	GRAY	SOFT	1665	2042	
L-LIME	BROWN	SOFT	2042	2052	
SAND & SHALE	BROWN	HARD	2052	2086	
B-LIME	GRAY	HARD	2086	2176	
KEENER	GRAY	HARD	2176	2188	
INJUN	GRAY	SOFT	2188	2283	
SAND & SHALE	BROWN	SOFT	2283	2800	
SAND	BROWN	SOFT	2800	2890	
SANDY SHALE	GRAY	HARD	2890	5152	
BENSON	GRAY	SOFT	5152	5157	
SAND & SHALE	BROWN	SOFT	5157	5300	
TD				5300	

095 1474

095-1474

Issued 07/10/91

Page of

Expires 07/10/93

**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) 670
- 2) Operator's Well Number: CLINE #1 (593-S) 3) Elevation: 1217'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): 435 Benson
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: 40', 307', and 1060'
- 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

12458

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		27#	100'	100'	CSR 38 18-11.1
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1100'	1100'	CSR 38 18-11.2.2
Production	4 1/2"	J-55	10.5#	5240'	5240'	CSR 38 18-11.3
Tubing						
Liners						

RECEIVED
Division of Energy

JUN 24 91

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

7293
18

1) Date: JUNE 17, 1991
2) Operator's well number
CLINE #1 (593-S)
3) API Well No: 47 - 095 - 1474
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED

JUN 24 21

4) Surface Owner(s) to be served:
(a) Name KIM & HELEN CLINE
Address 530 JEFFERSON ST.
NEWELL, WV 26050
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address ROUTE 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 SAME AS SURFACE
Address _____
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: [Signature]
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 19TH day of JUNE, 1991

[Signature]
My commission expires MARCH 14, 2000

OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
DOROTHY QUEEN
POST OFFICE DRAWER R
JANE LEW, WV 26378
My Commission Expires Mar. 14, 2000