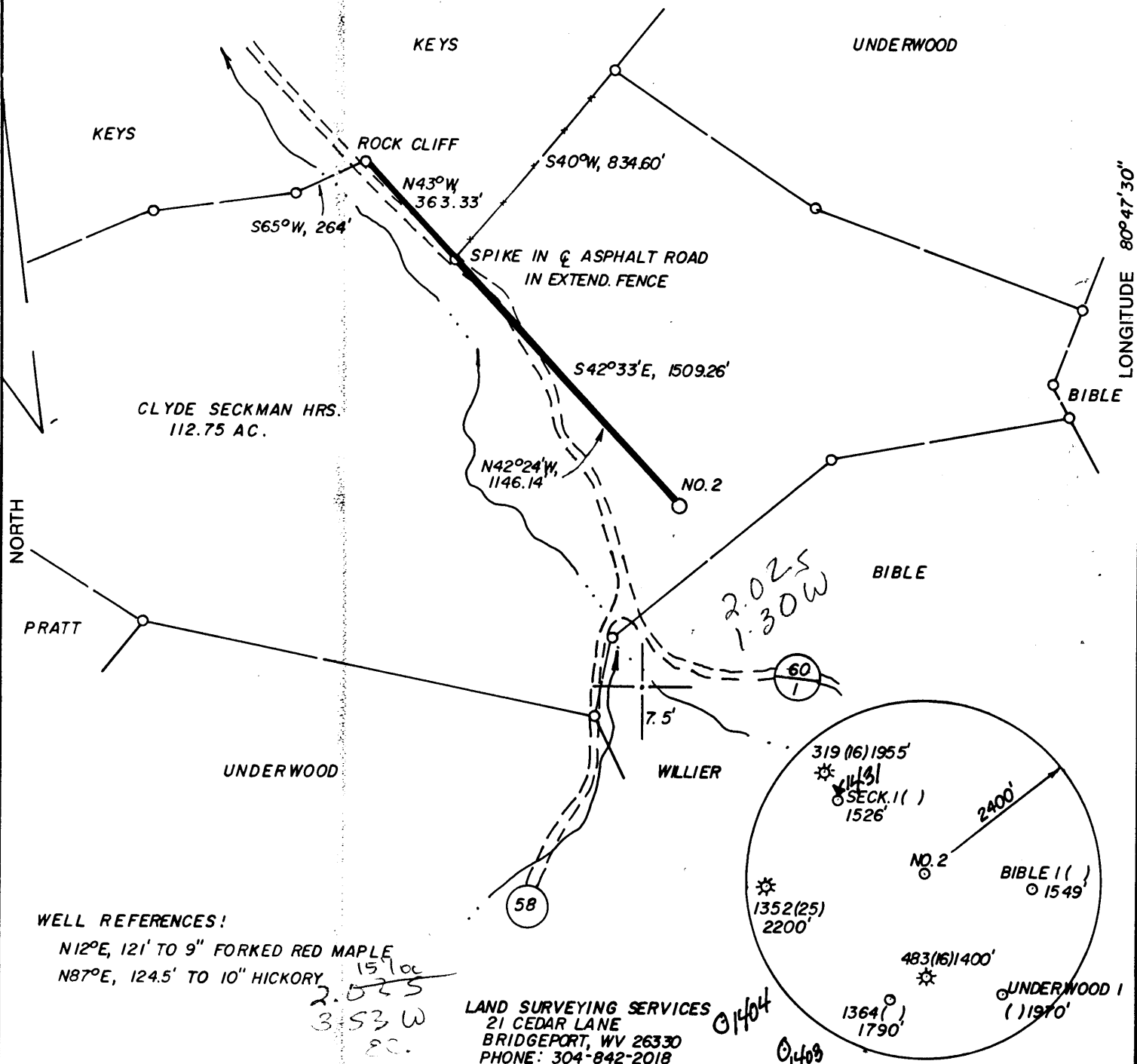


Janie 9/6/90

LATITUDE 39° 25' 00



CLYDE SECKMAN HRS. 112.75 AC.

WELL REFERENCES!

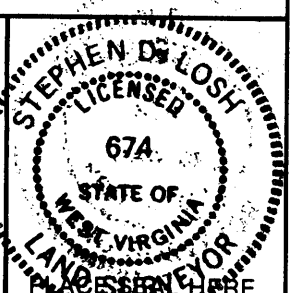
N12°E, 121' TO 9" FORKED RED MAPLE
 N87°E, 124.5' TO 10" HICKORY
 15' loc
 2.025
 3.53 W
 EC.

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 ROAD INT. 231' SW. OF LOC. AT ELEV. 828

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. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE JUNE 19, 19 90
 OPERATOR'S WELL NO. SECKMAN 2
 API WELL NO. 47-095-1432
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X

LOCATION: ELEVATION 882' WATER SHED JEFFERSON RUN
 DISTRICT McELROY S COUNTY TYLER
 QUADRANGLE SHIRLEY W Union EC

SURFACE OWNER CLYDE SECKMAN HRS. ACREAGE 112.75
 OIL & GAS ROYALTY OWNER CLYDE SECKMAN HRS. LEASE ACREAGE 112.75
 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' SEP 24 1990
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE SHELL
 ADDRESS P. O. DRAWER R ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

G-G wilbur (092)

FORM WW-6
 HT HALL 9-87

COUNTY NAME
 PERMIT

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

Well Operator's Report of Well Work

Farm name: SECKMAN, CLYDE - ESTATE Operator Well No.: SECKMAN 2-482-S

LOCATION: Elevation: 882.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 10700 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 6875 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: STONEWALL GAS COMPANY
909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23219-1575

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	118	118	65 SKS
8 /58	1106	1106	215 SKS
4 1/2	4919	4919	710 SKS

Agent: JESSE A. SHELL

Inspector: GLEN P. ROBINSON
Permit Issued: 09/21/90
Well work Commenced: 10-17-90
Well work Completed: 10-23-90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) _____
Fresh water depths (ft) _____
65
Salt water depths (ft) _____
257, 1735
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 55, 125, 927

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4782
Gas: Initial open flow 119 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 539 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1475 psig (surface pressure) after 168 Hours

Second producing formation WEIR Pay zone depth (ft) 2143
Gas: Initial open flow 119 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 539 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1000 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

STAGE	2	FRAC	WATER	DATE	10-31-90	&	11-07-90	
ZONES		PERFS		HOLES		BBL	BP	ISIP
BENSON		4782-4854		20		600	1500	1600
WEIR		2143-2163		20		600	2570	2020

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
-----------	-------	-----------	-----	--------	---------

RED ROCK	RED	HARD	0	1/2" STREAM H ₂ O	65'
SAND	BROWN	HARD	20		
COAL	BLACK	HARD	55	GAS CK 1771	NO SHOW
SAND & SHALE	GRAY	HARD	63	GAS CK 1864	6/10 2" W/W
COAL	BLACK	SOFT	125		
SHALE & RR	GRAY	SOFT	129	GAS CK 1895	6/10 2" W/W
SAND & SHALE	GRAY	SOFT	140		
SAND	BROWN	HARD	157	GAS CK 1988	8/10 2" W/W
SAND & SHALE	GRAY	HARD	185	GAS CK 2580	6/10 2" W/W
SAND	BROWN	HARD	528		
SHALE & RR	GRAY	SOFT	562	GAS CK 3167	6/10 2" W/W
COAL	BLACK	SOFT	927	GAS CK 4503	8/10 2" W/W
SAND & SHALE	GRAY	SOFT	931		
SAND	BROWN	HARD	1273	GAS CK 4813	8/10 2" W/W
SAND & SHALE	GRAY	HARD	1325		
L LIME	BROWN	SOFT	1740	GAS CK 4906	8/10 2" W/W
SAND & SHALE	GRAY	HARD	1754		
B LIME	GRAY	SOFT	1780	GAS CK 5000	6/10 2" W/W
INJUN	GRAY	SOFT	1850		
SAND & SHALE	GRAY	HARD	1990		
SHALE	GRAY	HARD	2247		
GORDON	GRAY	SOFT	2560		
SAND & SHALE	BROWN	HARD	2572		
RILEY	BROWN	SOFT	4430		
SAND & SHALE	GRAY	HARD	4440		
BENSON	GRAY	SOFT	4858		
SAND & SHALE	GRAY	HARD	4870		
TD			5000		

11228

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: SECKMAN #2 (482-S) 3) Elevation: _____
- 4) Well type: (a) Oil ___ / or Gas x /
 (b) If Gas: Production x / Underground Storage ___ /
 Deep ___ / Shallow x /
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 120', 140', 315'
- 8) Approximate salt water depths: 675', 1065' and 1320'
- 9) Approximate coal seam depths: 510'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

RECEIVED
 Division of Energy
 SEP 05 1990
 Permitting
 Oil and Gas Section

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
<u>SPK 6/29/90</u> Conductor	11 3/4"		27#	130'	130' CTS	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1100' CTS	1100' CTS	38 CSR 18-11.2
Production	4 1/2"		10.5#	5000'	5000' ←	38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

6944
 25
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond C D Blanket Agent

(Type)

RECEIVED

Division of Energy

Page 1 of _____
Form WW2-A
(09/87)

SEP 05 90

Permitting
Oil and Gas Section

1) Date: SEPTEMBER 4, 1990
2) Operator's well number
SECKMAN #2 (482-S)
3) API Well No: 47 - 095 - 1432
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 CLYDE SECKMAN ESTATE
 Address WILBUR, WV 26459

 (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 GLEN P. ROBINSON
 Address RT 1 #6 MT PLEASANT EST
MINERAL WELLS, WV 26150
 Telephone (304)- 489-2736
- (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.

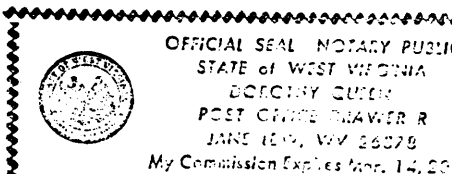
Well Operator STONEWALL GAS COMPANY

BY: *Benj. A. Harvey*

Its: PRESIDENT

Address PO DRAWER R
JANE LEW, WV 26378

Telephone 304-884-7881



Subscribed and sworn before me this 4TH day of SEPTEMBER, 1990

Dorothy Lew
My commission expires

MARCH 14, 2000

Notary Public