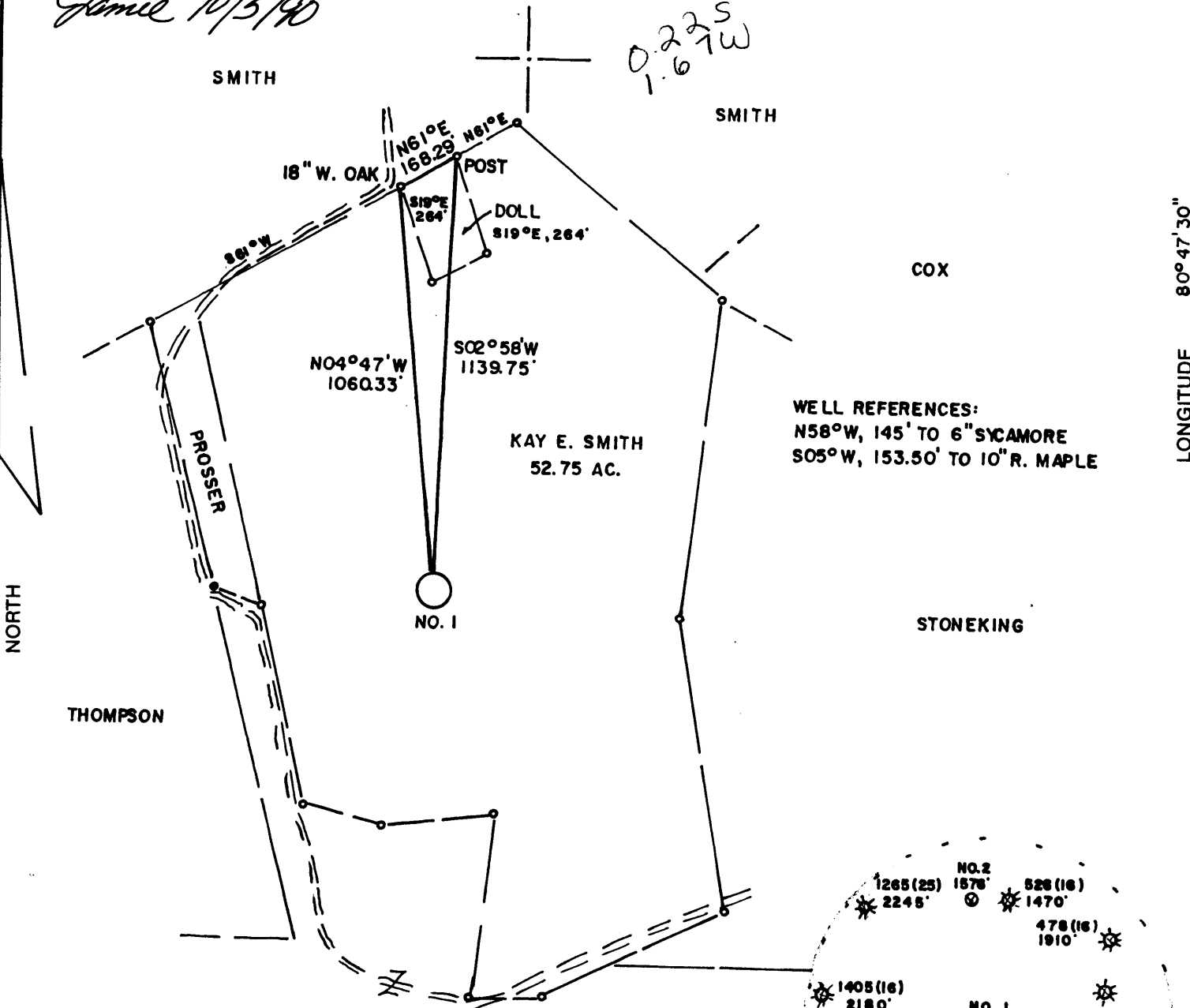


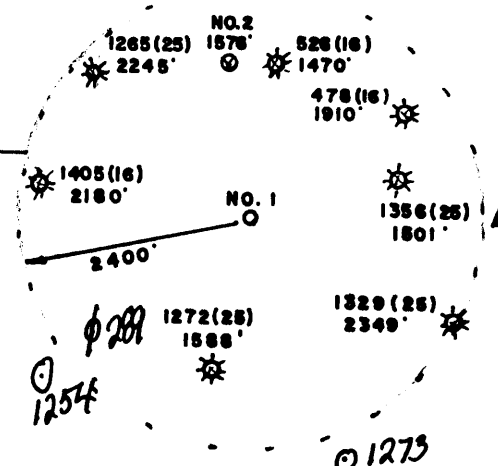
Jamie 10/5/90

*0.225
1.6
W*



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

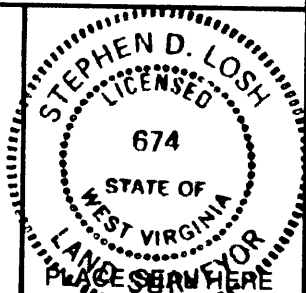
*15' loc PETER
310 S
290 W
West Union EC*



(+) 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. 1750' N. OF LOCATION ELEV. 1038'

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



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE SEPTEMBER 17, 19 90
OPERATOR'S WELL NO. PIERSON NO. 1
API WELL NO. 47-095-1437
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 972' WATERSHED CAMP MISTAKE RUN
DISTRICT CENTERVILLE 1 COUNTY TYLER
QUADRANGLE WEST UNION 7.5 mn.
SURFACE OWNER KAY E. SMITH & WALTON SMITH JR. ACREAGE 52.75
OIL & GAS ROYALTY OWNER CLARA DOAK et. al. & SMITH LEASE ACREAGE 52.75
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 5300'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSE SHELL
ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378 JANE LEW, WV 26378

OCT 22 1990

RECEIVED
JAN 10 1991

10-Oct-90
API # 47- 95-01437

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: SMITH, KAY E & WALTON, JR Operator Well No.: PIERSON 1 431 S

LOCATION: Elevation: 972.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 1240 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 8880 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

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 10/11/90
Well work Commenced: 11-02-90
Well work Completed: 11-07-90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5100
Fresh water depths (ft) 65
Salt water depths (ft) 470

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 350

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	128	128	65 sks
8 5/8	1298	1298	250 sks
4 1/2	5033	5033	710 sks

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4908
Gas: Initial open flow 66 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2978 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 RILEY Pay zone depth (ft) 4486
Gas: Initial open flow 66 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2978 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

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.
Date: 12/31/90 Petroleum Engineer

JAN 11 1991

STAGE	2	FRAC	WATER	DATE	12/04/90			
ZONES		PERFS		HOLES		BBL	BP	ISIP
BENSON		4908-4912		16	700	1914		1588
RILEY		4486-4492		18	700	2800		1714
FORMATION		COLOR		HARD/SOFT	TOP	BOTTOM	REMARKS	

RED ROCK'	RED	HARD	0	4	½"	HOLE DAMP AT 65'		
SAND	BROWN	HARD	4	47				
RR & SHALE	GRAY	SOFT	47	158	DAMP @	470'		
SAND & SHALE	GRAY	SOFT	158	348				
COAL	BLACK	SOFT	348	350	GAS CK @	1870 NO SHOW		
SAND & SHALE	GRAY	SOFT	350	410	GAS CK @	1964 NO SHOW		
SAND	BROWN	HARD	410	502	GAS CK @	1995 NO SHOW		
SAND & SHALE	GRAY	HARD	502	620	GAS CK @	2027 NO SHOW		
SHALE & RR	GRAY	HARD	620	735	GAS CK @	2058 NO SHOW		
SAND & SHALE	GRAY	SOFT	735	1403	GAS CK @	2649 N/S ODOR		
SAND	BROWN	SOFT	1403	1518	GAS CK	3363 NO SHOW ODOR		
SAND & SHALE	GRAY	HARD	1518	1785	GAS CK	4541 4/10 1" W/W		
LIME	BROWN	HARD	1785	1802				
SAND & SHALE	GRAY	HARD	1802	1809	GAS CK	4976 4/10 1" W/W		
L-LIME	BROWN	SOFT	1809	1824	GAS CK	5100 40/10 1" W/W		
SAND & SHALE	GRAY	SOFT	1824	1835				
B-LIME	BROWN	SOFT	1835	1943				
INJUN	BROWN	HARD	1943	2050				
SAND & SHALE	GRAY	HARD	2050	2600				
GORDON	BROWN	HARD	2600	2620				
SAND & SHALE	GRAY	SOFT	2620	4465				
RILEY	BROWN	SOFT	4465	4480				
SAND & SHALE	GRAY	HARD	4480	4900				
BENSON	BROWN	HARD	4900	4930				
SHALE	GRAY	SOFT	4930	5100				
TD			5100					

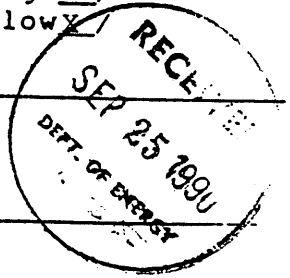
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JAN 10 1991

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1132

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (1) 670
- 2) Operator's Well Number: PIERSON #1 (431-S) 3) Elevation: 972'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON 400
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 53'
- 8) Approximate salt water depths: 1200'
- 9) Approximate coal seam depths: 590-593' ; 607 - 610'
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: DRILL & STIMULATE NEW WELL
- 12)



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
<u>9/19/90</u> Conductor	11 3/4"		27#	125'	125' - CTS	38 CSR 18 - 11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1300'	1300' - CTS	38 CSR 18-11.2.2
Production	4 1/2"		10.5#	5040'	5040'	38 CSR 18-11.1
Tubing						
Liners						

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 Agent
 (Type)

6971
27



1) Date: SEPTEMBER 20, 1990
2) Operator's well number
PIERSON #1 (431-S)
3) API Well No: 47 - 095 - 1437
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:
(a) Name <u>KAY E. SMITH & WALTON</u>
Address <u>SMITH, JR.</u>
<u>HCR 74 BOX 19 WILBUR, WV 26320</u>
(b) Name _____
Address _____
(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>N/A</u>
Address _____
(b) Coal Owner(s) with Declaration
Name <u>CLARA I. DOAK, ET AL</u>
Address <u>3517 TAYLOR AVE.</u>
<u>N. LAS VEGAS, NV 89030</u>
Name <u>SAME AS SURFACE</u>
Address _____
(c) Coal Lessee with Declaration
Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector <u>GLEN P. ROBINSON</u>
Address <u>RT 1 #6 MT PLEASANT EST.</u>
<u>MINERAL WELLS, WV 26150</u>
Telephone (304)- <u>489-2736</u></p> | |

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:

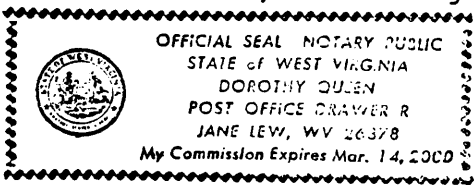
- ____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- ____ Publication (Notice of Publication attached)

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 26378-0080
Telephone 304-884-7881



Subscribed and sworn before me this 21 day of SEPTEMBER, 1990

[Signature] Notary Public
My commission expires MARCH 14, 2000