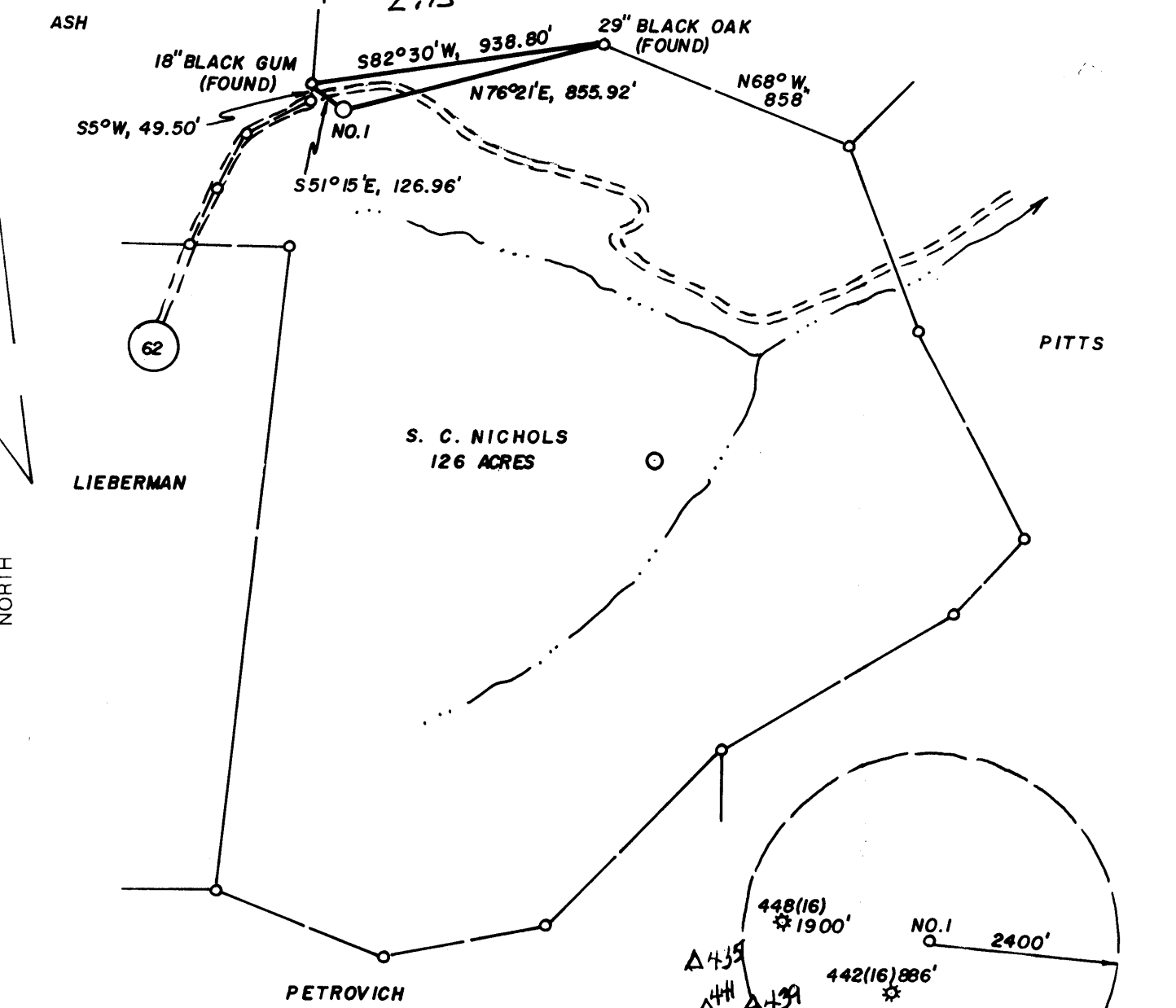


Jamie 12/4/89

11,450

LATITUDE 39° 22' 30"

7.5' 0.06 S
2.15 W



LONGITUDE 80° 45' 00"

NORTH

WELL REFERENCES:
 N53°30'E, 162' TO 3' RED MAPLE
 N51°15'W, 127' TO 18" GUM

W Union EC
 2.945
 2.15 W

(+) 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 KNOB 850'
 NE AT 1137'

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 1
 API WELL NO.

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

LOCATION: ELEVATION 1138' WATER SHED SANDY RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE WEST UNION 7.5' +15' EC

SURFACE OWNER RICHARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.
 LEASE NO. _____

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 BENSON ESTIMATED DEPTH 5450'
 WELL OPERATOR STONEWALL GAS CO. 847 DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R
 JANE LEW, WV 26378 - 0080 JANE LEW, WV 26378 - 0080

COUNTY NAME PERMIT

66 Wilbur (092) DEC 15 1989

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

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DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: NICHOLS, RICHARD J.

Operator Well No.: 1-413-8

LOCATION: Elevation: 1138.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER
Latitude: 325 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 11450 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS CO.
P. O. BOX 1575
RICHMOND, VA 23213-1575

Agent: JESSE A. SHELL

Inspector: GLEN P. ROBINSON
Permit Issued: 12/13/89
Well work Commenced: 01-16-90
Well work Completed: 01-29-90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5200
Fresh water depths (ft) _____
80 & 175
Salt water depths (ft) _____
420 & 2090
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	126	126	75 SKS
8 5/8	1296	1296	310 SKS
4 1/2	5142	5142	720 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5078
Gas: Initial open flow 133 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1055 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1575 psig (surface pressure) after 165 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 CO.
By: [Signature] PETROLEUM ENGINEER
Date: MARCH 2, 1990

MAR 12 1990

STAGE	1	FRAC WATER	DATE	02-20-90		
ZONES		PERFS	HOLES	BBL	BP	ISIP
BENSON		5101-5105	16	700	1990	1660

FORMATION	COLOR	HARD/SOFT		TOP	BOTTOM	REMARKS
KB	BROWN	SOFT	0	5		
CLAY	TAN	SOFT	5	10		GAS CK 2087 NO SHOW
RR & SHALE	GRAY	HARD	10	160		
SAND	TAN	HARD	160	220		
SAND & SHALE	BROWN	HARD	220	280		GAS CK 2118 10/10 2" W/W
RR	RED	HARD	280	340		
RR & SHALE	BROWN	SOFT	340	410		GAS CK 2212 8/10 2" W/W
SAND & SHALE	GRAY	SOFT	410	620		
RR & SHALE	GRAY	SOFT	620	820		GAS CK 2860 8/10 2" W/W
RR	RED	HARD	820	910		
SAND & SHALE	GRAY	HARD	910	1080		GAS CK 4665 8/10 2" W/W
RR & SHALE	GRAY	HARD	1080	1140		
SAND & SHALE & RR	BROWN	SOFT	1140	1998		GAS CK 5200 10/10 2" W/W
LIME	BROWN	SOFT	1998	2083		
INJUN	BROWN	SOFT	2083	2200		GAS CK DC 6/10 W/W
SAND & SHALE	GRAY	SOFT	2200	2770		
GORDON	BROWN	HARD	2770	2825		
SAND & SHALE	BROWN	HARD	2825	4585		
RILEY	GRAY	SOFT	4585	4665		
SAND & SHALE	GRAY	SOFT	4665	5032		
BENSON	GRAY	SOFT	5032	5085		
SAND & SHALE	GRAY	HARD	5085	5200		
TD			5200			

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: NICHOLS #1 (413-S) 3) Elevation: 1138'
- 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: 5250' feet
- 7) Approximate fresh water strata depths: 70' 235' 190'
- 8) Approximate salt water depths: 1150' 1955'
- 9) Approximate coal seam depths: N/A 740'-745', 742'-746', 744'-747'
- 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>911 11/14/89</u> Conductor	11 3/4"		28#	100'	100' CTS	38CSR18-11.3
Fresh Water						
Coal						38CSR18-11.3
Intermediate	8 5/8"		20#	1300'	1300' CTS	38CSR18-11.2.2
Production	4 1/2"		10.5#	5200'	5200'	38CSR18-11.1
Tubing						
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only DEPARTMENT OF ENERGY

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

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Page 1 of
Form WW2-A
(09/87)
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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: NOVEMBER 20, 1989
2) Operator's well number
NICHOLS #1 (413-S)
3) API Well No: 47 - 095 - 1361
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 RICHARD J. NICHOLS
Address 856 CHESTER RD.
CHARLESTON, WV 25302
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector GLEN P. ROBINSON
Address RT 1, #6 MT. PLEASANT EST.
MINERAL WELLS, WV 26150
Telephone (304)-489-2736

5) (a) Coal Operator:
Name NA
Address _____
(b) Coal Owner(s) with Declaration
Name RICHARD J. NICHOLS
Address 86 CHESTER RD., CHARLESTON,
25302
Name RICKY DEAN WILCOX ET AL
Address 378 KNOLLWOOD DR.
CHARLESTON, WV 25302
(c) Coal Lessee with Declaration
Name NA
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: Beiji A. Hurst
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 20TH day of NOVEMBER, 19 89

Richard K. Edwards
My commission expires OCTOBER 14, 1993
XXXXXXXXXXXXXXXXXX
Commissioner Of West Virginia