

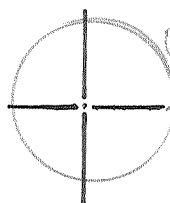
LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

Jamie 6/19/89

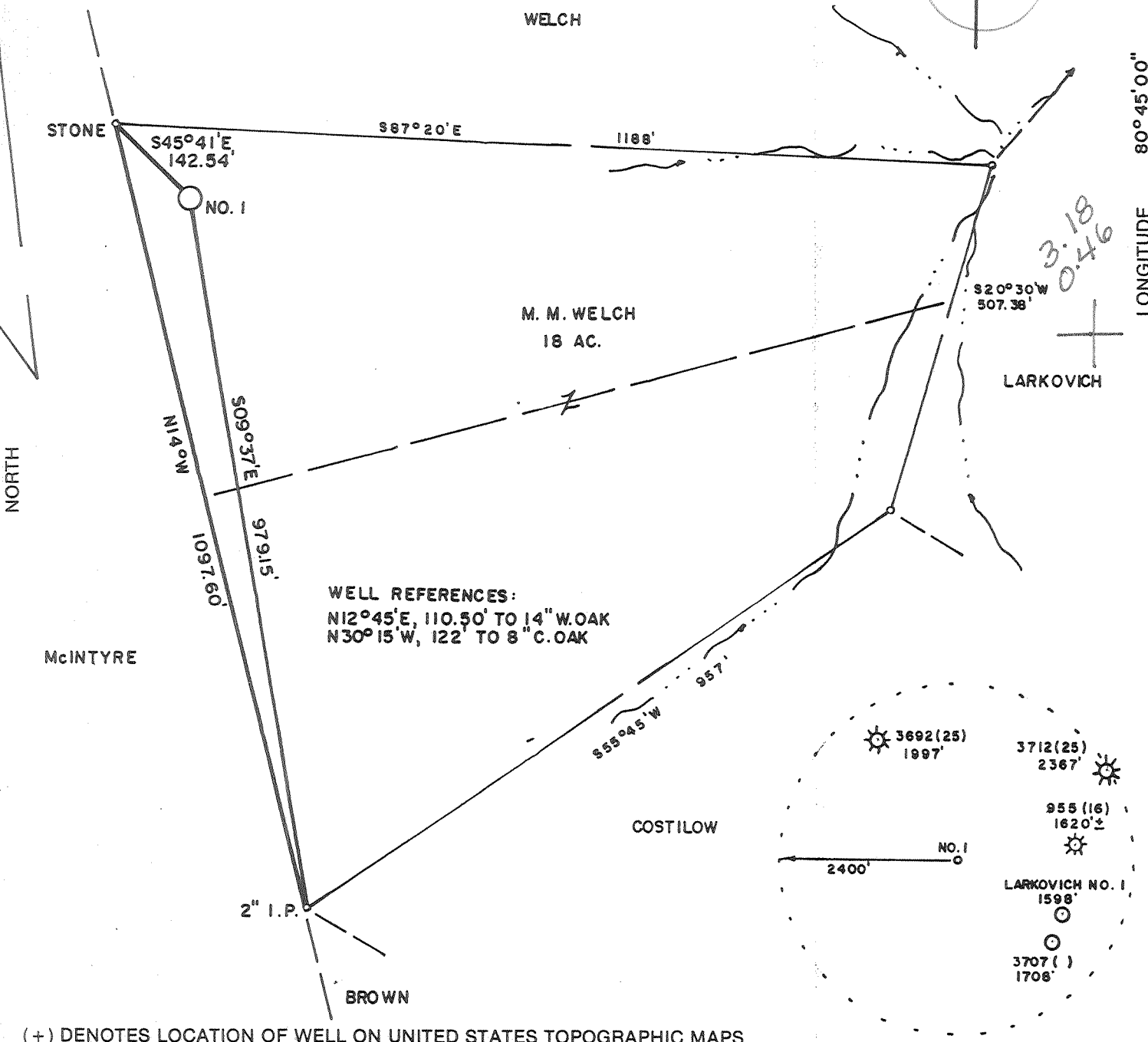
LATITUDE 39° 22' 30"

25 2460'

1660'



LONGITUDE 80° 45' 00"



WELL REFERENCES:
N12°45'E, 110.50' TO 14" W.OAK
N30°15'W, 122' TO 8" C.OAK

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 200'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1150' N.W. OF LOCATION ELEV. - 1306'

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. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MAY 24, 1989
OPERATOR'S WELL NO. WILCOX NO. 1
API WELL NO.

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1223' WATER SHED SANDY RUN
DISTRICT GRANT 3 COUNTY DODDRIDGE
QUADRANGLE WEST UNION 7.5 min. 671 1336 +15 EC
SURFACE OWNER MARY M. WELCH ACREAGE 18
OIL & GAS ROYALTY OWNER CLAY A. WILCOX LEASE ACREAGE 18

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 ALEXANDER ESTIMATED DEPTH 5800'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R
JANE LEW, WV 26378 JANE LEW, WV 26378

JUN 30 1989

6-6 Swiger (Flint Run) (097)

COUNTY NAME PERMIT

FORM: WV-86 48673 H.T. HALL

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

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JAN 28 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: WELCH, MARY MAXINE Operator Well No.: WILCOX 1-412-S

LOCATION: Elevation: 1223.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 1660 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude: 2460 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: MIKE UNDERWOOD
Permit Issued: 06/30/89
Well work Commenced: 12-11-89
Well work Completed: 12-16-89
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5400
Fresh water depths (ft) 210

Salt water depths (ft) _____
325

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	169	169	85 sks
8 5/8	1500	1500	300 sks
4 1/2	5382	5382	690 sks

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5249-57
Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1555 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 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4804-08
Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1555 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 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 CO.

By: [Signature], PETROLEUM ENGINEER
Date: JANUARY 24, 90

FRAC ZONES	STAGE PERFS	DATE HOLES	BBL	SAND	BD	ISIP
BENSON	5249-5257	24	800	80,000	1593	2512
RILEY	4804-4808	12	400	40,000	1514	1879
FORMATION	COLOR	HARD/SOFT	TOP FT	BOTTOM FT	REMARKS	
FILL	BROWN	HARD	0	5	HOLE WET @ 60' 1/4 H ₂ O	
SAND & SHALE	GREY	HARD	5	85		
RED ROCK	RED	HARD	85	105	HOLE DAMP @ 210	
SAND & SHALE	GREY	HARD	105	190	1/2" STREAM H ₂ O @ 325	
SAND, SHALE, RR	BROWN	SOFT	190	225		
SAND	TAN	SOFT	225	250	GAS CK 2171 NO SHOW	
RED ROCK	RED	HARD	250	280	GAS CK @ 2232 NO SHOW	
SHALE	GREY	HARD	280	315	GAS CK @ 2264 NO SHOW	
SAND	BROWN	SOFT	315	340	GAS CK @ 2358 20/10 2"	
SAND & SHALE	BROWN	SOFT	340	590		
RED ROCK	RED	HARD	590	655	GAS CK @ 2388 ^{H₂O} 4/10 2" H ₂ O	
SHALE	BLACK	HARD	655	690	GAS CK @ 2916 20/10 2" H ₂ O	
SAND	GREY	SOFT	690	750		
RED ROCK	RED	HARD	750	810	W/H ₂ O	
SHALE	GREY	HARD	810	840	GAS CK @ 2946 20/10	
RED ROCK	RED	HARD	840	860	GAS CK @ 5275 20/10	
SHALE	GREY	HARD	860	920	GAS CK @ TD 20/10	
RED ROCK	RED	HARD	920	940		
SHALE & SAND	BROWN	MED	940	1025		
RED ROCK	RED	MED	1025	1260		
SAND	GREY	SOFT	1260	1325		
RED ROCK & SHALE	GREY	HARD	1325	1470		
SAND & SHALE	GREY	SOFT	1470	2140		
BIG LIME	BROWN	SOFT	2140	2230		
INJUN	BROWN	SOFT	2230	2355		
SAND & SHALE	GREY	MED	2355	4730		
RILEY	GREY	SOFT	4730	4738		
SAND & SHALE	BROWN	MED	4738	5210		
BENSON	BROWN	SOFT	5210	5235		
SAND & SHALE	(TD) BROWN	MED	5225	5400		
		TD		5400		

1806

29

47-017-3730
Issued 6/30/89 Expires 6/30/91
Page ___ of ___

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

- 1) Well Operator: STONEWALL GAS COMPANY *47850, 3, 670*
- 2) Operator's Well Number: WILCOX #1 412-S 3) Elevation: 1223'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5400' feet
- 7) Approximate fresh water strata depths: 145'
- 8) Approximate salt water depths: 1400'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 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	Fill-up (cu. ft.)
Conductor	11 3/4"	ERW	42#	170'	170'	38 CSR 18-11.3
Fresh Water						<i>o.k. [Signature]</i>
Coal						
Intermediate	8 5/8"	ERW	23#	1500'	1500'	38 CSR 18-11.3
Production	4 1/2"	ERW	10.5#	5400'	5400'	38 CSR 18-11.1
Tubing						
Liners						

18081

PACKERS : Kind _____
Sizes _____
Depths set _____

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JUN 13 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: *[Signature]* Well Work Permit *[Signature]* Reclamation Fund *[Signature]* WPCP *[Signature]*

Plat *[Signature]* WW-*[Signature]* WW-2B *[Signature]* Bond *50 Blanket one* *[Signature]* Agent *[Signature]*
(Type)

Page 1 of
Form WW2-A
(09/87)
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JUN 13 1989

1) Date: JUNE 7, 1989
2) Operator's well number
WILCOX #1 412-S
3) API Well No: 47 - 017 - 3730
State - County - Permit

**DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 MARY MAXINE WELCH
Address PO BOX 4308
PARKERSBURG, WV 26101
 - (b) Name C.R. PERSOL
Address C/O MARY WELCH
PO BOX 4308
 - (c) Name PARKERSBURG, WV 26101
Address _____
- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration
Name CLAY A. WILCOX
Address 213 WICKHAM AVE.
BECKLEY, WV 25801
Name _____
Address _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2, BOX 135
SALEM, WV 26426
Telephone (304)- 348-3741
- (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: Brian A. Harty
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 7TH day of JUNE, 1989

Richard K. Edwards
My commission expires

OCTOBER 14, 1993

XXXXXXXXXXXXXXXXX
COMMISSIONER