

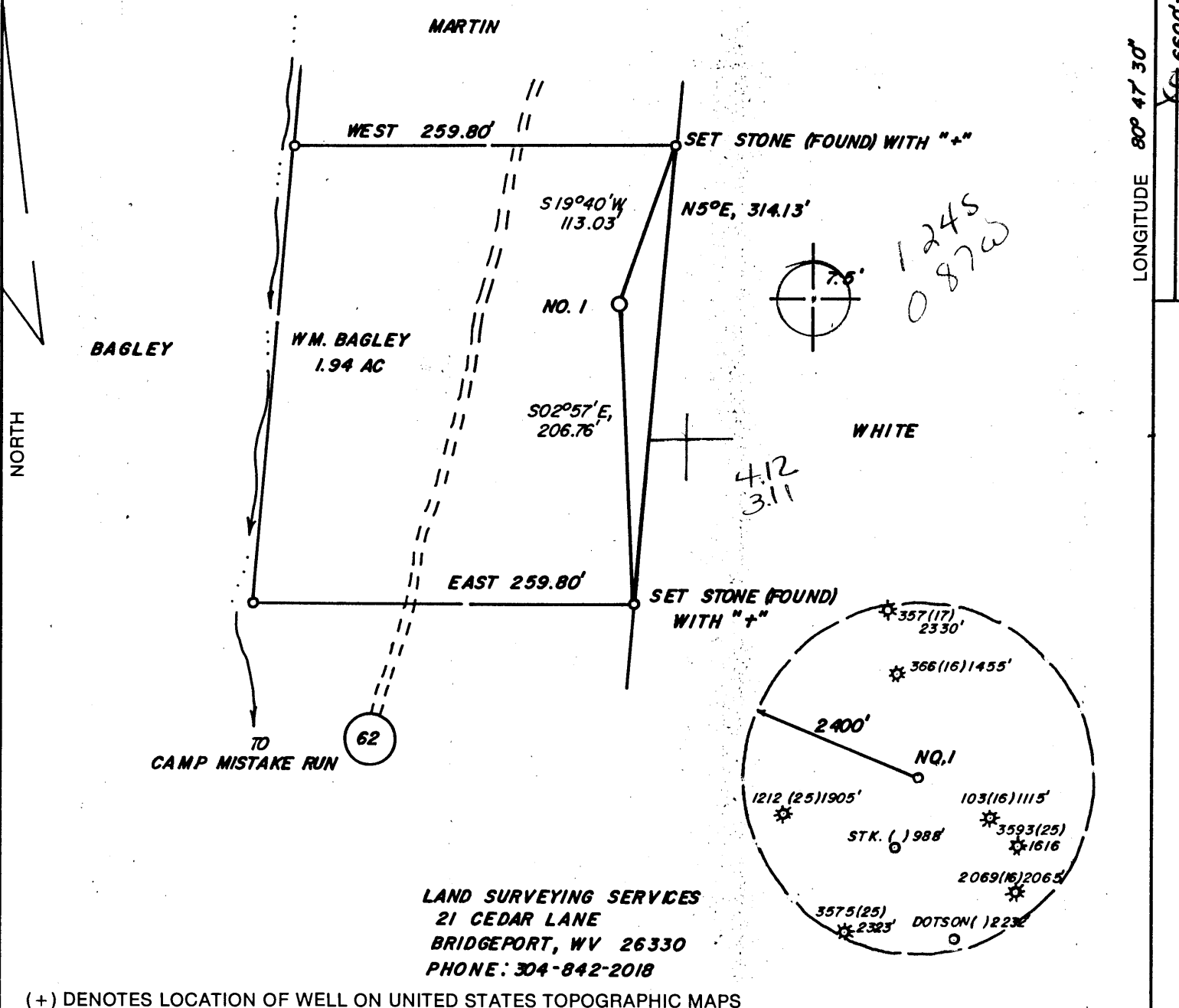
11/20/87

4670

LATITUDE 39° 22' 30"

WELL REFERENCES:

N30°E, 112.50' TO 2" HICKORY
S16°E, 109' TO 5" VIRGINIA PINE

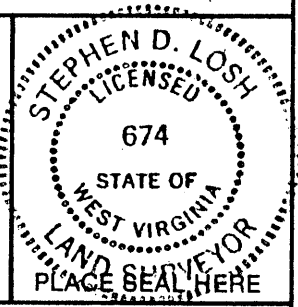


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 100'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION RD. INT. 850' SE. OF LOC. AT ELEV. 834'

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 NOV. 19, 19 87
OPERATOR'S WELL NO. BAGLEY 1
API WELL NO. _____

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

LOCATION: ELEVATION 927' WATER SHED CAMP MISTAKE RUN
DISTRICT McELROY 5 COUNTY TYLER
QUADRANGLE WEST UNION 7.5' 671 133 6 EC

SURFACE OWNER WM. BAGLEY ACREAGE 1.94
OIL & GAS ROYALTY OWNER WM. BAGLEY LEASE ACREAGE 1.94
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'

WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 847 JANE LEW, WV 26378-0080
6-6 Wilbur (92)

NOV 23 1987

LONGITUDE 80° 47' 30"
0099 6600
COUNTY NAME
PERMIT

H.T. HALL 4-8673 FORM WW-6

WR-35



Date JANUARY 6, 88
Operator's Well No. BAGLEY #1 363-S
Farm BAGLEY
API No. 47 - 095 - 1219

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 927 Watershed CAMP MISTAKE RUN
District: MC ELROY County TYLER Quadrangle WEST UNION

COMPANY STONEWALL GAS COMPANY
ADDRESS PO DRAWER R, JANE LEW, WV 26378
DESIGNATED AGENT CHARLES W. CANFIELD
ADDRESS PO DRAWER R, JANE LEW, WV 26378
SURFACE OWNER W. M. BAGLEY
ADDRESS 8CR74, BOX 36, WILBUR, WV 26320
MINERAL RIGHTS OWNER SAME AS SURFACE
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK ROBERT
LOWTHER ADDRESS MIDDLEBOURNE, WV 26149
PERMIT ISSUED NOVEMBER 20, 1987
DRILLING COMMENCED NOVEMBER 30, 1987
DRILLING COMPLETED DECEMBER 5, 1987

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4 13-10"	258	258	145 SKS
9 5/8			
8 5/8	2023	2023	520 SKS
7			
5 1/2			
4 1/2	4949	4949	220 SKS
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION BENSON Depth 4820 feet
Depth of completed well 4949 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 50 feet; Salt 653 feet
Coal seam depths: 90 TO 93 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4820 feet
Gas: Initial open flow 133 Mcf/d Oil: Initial open flow NA Bbl/d
Final open flow (1007) MMcf/d Final open flow NA Bbl/d
Time of open flow between initial and final tests 120 hours
Static rock pressure 1540 psig (surface measurement) after 120 hours shut in
(If applicable due to multiple completion--)
Second producing formation RILEY Pay zone depth 4396 feet
Gas: Initial open flow 133 Mcf/d Oil: Initial open flow NA Bbl/d
Final open flow 1007 Mcf/d Oil: Final open flow NA Bbl/d
Time of open flow between initial and final tests 120 hours
Static rock pressure 1540 psig (surface measurement) after 120 hours shut in

JAN 19 1988
(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

TWO STAGE FRAC

	PERFS	HOLES	BBL	SAND	BP	ISIP
<u>BENSON</u>	<u>4818 TO 4824</u>	18	760	65,000	2100	1500
<u>RILEY</u>	<u>4394 TO 4400</u>	18	725	50,000	2200	1700

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
FILL AND CLAY		SOFT	0	10	1" STREAM H ₂ O 50'
SHALE	RED	SOFT	10	90	
COAL	BLACK	HARD	90	93	GAS @ 1950 20/10 1" H ₂ O
SAND & SHALE	GRAY	SOFT	93	1550	GAS @ 3154 60/10 1" H ₂ O
SHALE	GRAY	SOFT	1550	1790	
BIG LIME	GRAY	SOFT	1790	1870	
BIG INJUN	GRAY	SOFT	1870	1940	GAS @ 4465 20/10 1" H ₂ O
WEIR	BROWN	SOFT	2120	2230	
BEREA	GRAY	SOFT	2330	2340	GAS @ TD 5020 10/10 2" H ₂ O
GORDON	GRAY	HARD	2540	2570	
WARREN	GRAY	SOFT	3230	3270	
RILEY	BROWN	SOFT	4370	4440	
BENSON	BROWN	SOFT	4810	4870	
TD			<u>5020</u>		

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

By: Benjamin A. Hardesty
Date: BENJAMIN A. HARDESTY, VICE PRESIDENT

JANUARY 6, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed chronological record of all formations, including ... of a well."

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1)
2)
3)

Date: NOVEMBER 19, 1987
Operator's well number
BAGLEY #1 363-S
API Well No: 47 - 095 - 1219
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:</p> <p>(a) Name <u>WILLIAM G. BAGLEY</u>
Address <u>8 CR 74, BOX 36</u>
<u>WILBUR, WV 26320</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>NONE</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>SAME AS SURFACE</u>
Address _____</p> <p>(c) Coal Lessee with Declaration
Name <u>NONE</u>
Address _____</p> |
| <p>6) Inspector <u>ROBERT LOWTHER</u>
Address <u>GENERAL DELIVERY</u>
<u>MIDDLEBOURNE, WV 26149</u>
Telephone <u>(304)-758-4764</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:

- X Personal Service (Affidavit attached)
- _____ 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: VICE PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 19 day of NOVEMBER, 1987

[Signature]
My commission expires OCTOBER 14, 1993 ~~XXXXXXXXXXXX~~
COMMISSIONER OF WV

11/20/87
11/20/89

095 1219

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850, 5, 670
- 2) Operator's Well Number: BAGLEY #1 363-S 3) Elevation: 927'
- 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: 5,200 feet
- 7) Approximate fresh water strata depths: 87' 140'
- 8) Approximate salt water depths: - Salt Sands 1321-1600 1265-1563
- 9) Approximate coal seam depths: UNKNOWN 25-27'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
From TYLER 357, 366, & Doddridge 103-3575
- 11) Proposed Well Work:
- 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		42	30	30	38CSR18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23	1227	1227	38CSR18-11.3
Production	4 1/2	ERW	10.5	5200	5200	38CSR18-11.1
Tubing						
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

238
4403
437

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50. Blanket Agent
(Type)