

YSS 12/21/87

39 25 4165'

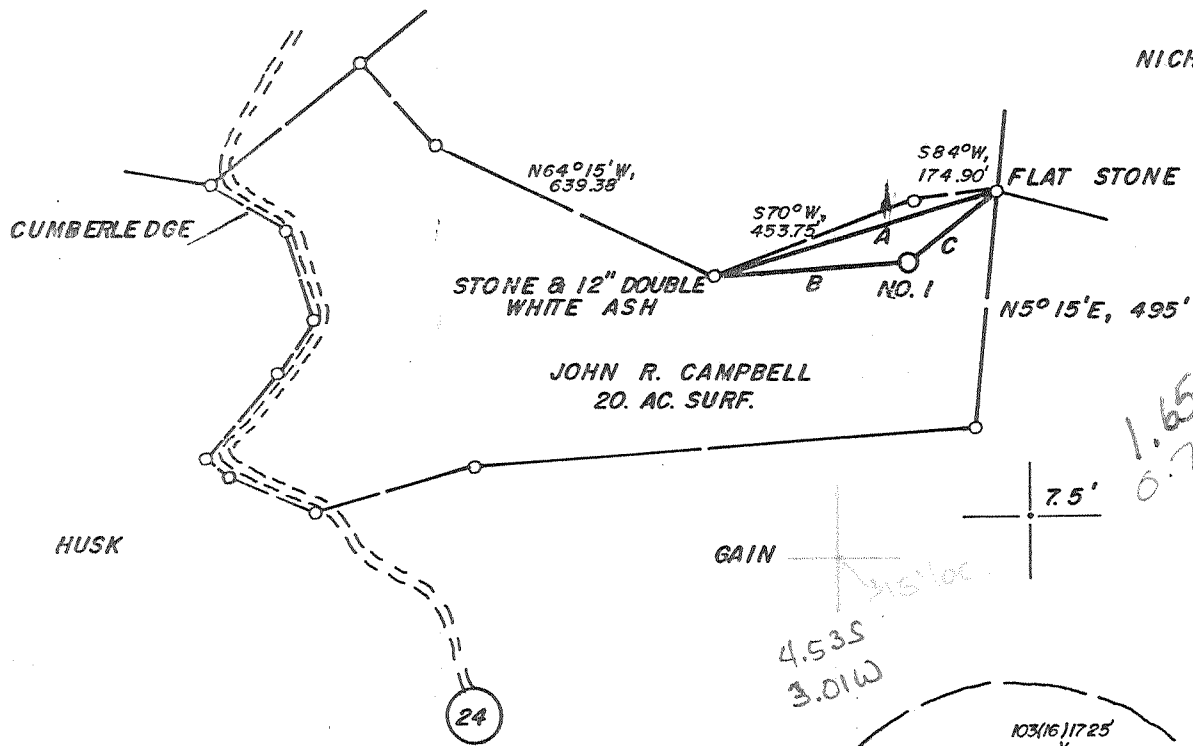
LATITUDE 39° 22' 30"

WELL REFERENCES:
N23° 45' E, 100' TO 3" ELM
N51° 30' W, 155.50 TO 9" SASSAFRAS

MYERS

BAGHLEY

NICHOLS

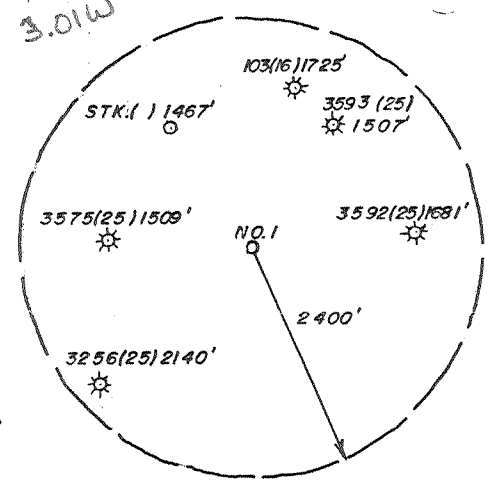


LONGITUDE 80° 47' 30" - 80 45 888

NORTH

TIE LINES:

- A) S73° 53' W, 610.78'
- B) N86° 13' E, 405.57'
- C) N51° 47' E, 231.74'



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" = 400'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION TOP OF KNOB 870'SE OF LOC. AT ELEV. 1282'

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE NOV 5, 19 87
OPERATOR'S WELL NO. DOTSON 1
API WELL NO. _____

47 - 017 - 3622
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X
LOCATION: ELEVATION 1183' WATERSHED SLAUGHTER RUN
DISTRICT WEST UNION 6 COUNTY DODDRIDGE
QUADRANGLE WEST UNION 7.5' 671 133 6 +15' EC
SURFACE OWNER JOHN R. CAMPBELL ACREAGE 20.
OIL & GAS ROYALTY OWNER ETTA V. TAYLOR, HEIRS LEASE ACREAGE 20.
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 5500'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

COUNTY NAME PERMIT

6-6 Wilbur (92) MAR 25 1988

WR-35

RECEIVED
FEB 25 1988



State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date FEBRUARY 16, 1988
Operator's
Well No. 362-S
Farm DOTSON #1
API No. 47 - 017 - 3622

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: 1183 Watershed SLAUGHTER RUN
District: WEST UNION County DODDRIDGE Quadrangle WEST UNION 7.5'

COMPANY STONEWALL GAS COMPANY
ADDRESS P.O. DRAWER R, JANE LEW, WV 26378
DESIGNATED AGENT CHARLES W. CANFIELD
ADDRESS P.O. DRAWER R, JANE LEW, WV 26378
SURFACE OWNER JOHN R. CAMPBELL
ADDRESS 1401 MYERS AVE., DUNBAR, WV 25064
MINERAL RIGHTS OWNER SAME AS SURFACE
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK MIKE
UNDERWOOD ADDRESS RT 2, BOX 135, SALEM,
PERMIT ISSUED DECEMBER 23, 1987 WV 26426
DRILLING COMMENCED JANUARY 18, 1988
DRILLING COMPLETED JANUARY 23, 1988
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4" 13-10"	257	257	130 SKS
9 5/8			
8 5/8	1394	1394	280 SKS
7			
5 1/2			
4 1/2	5233	5233	210 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5100 feet
Depth of completed well 5233 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 90 feet; Salt 1062 feet
Coal seam depths: 300 to 305 Is coal being mined in the area? NO

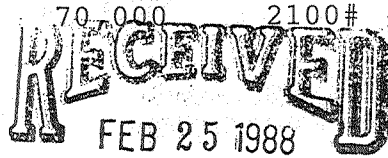
OPEN FLOW DATA

Producing formation BENSON Pay zone depth 5100 feet
Gas: Initial open flow 70 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 919 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 60 hours
Static rock pressure 1550# psig (surface measurement) after 60 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

FEB 20 1988
3/25 batch

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 FRAC ONE STAGE 2/10/88

PERFS	HOLES	BBL	SAND	B.D.	I.S.I.P.
BENSON					
5094 - 5101	18	880	70,000	2100#	1600#



DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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	BLACK	SOFT	0	10	½" STREAM @ 90'
SHALE & RED ROCK	RED	SOFT	10	300	
COAL	BLACK	SOFT	300	305	DAMP @ 1062'
SAND, SHALE & RED ROCK	RED	SOFT	305	1490	
COAL	BLACK	SOFT	1490	1494	
SHALE & SAND	GRAY	SOFT	1494	2130	
BIG LIME	GRAY	HARD	2130	2210	
BIG INJUN	GRAY	HARD	2210	2310	GAS @ 2295' NO SHOW
GORDON	GRAY	SOFT	2870	2920	GAS @ 3938 10/10 1" H ² O
RILEY	GRAY	SOFT	4720	4800	GAS @ 4796 40/10 1" H ² O
BENSON	BROWN	SOFT	5170	5210	GAS @ 5204 48/10 1" H ² O
T.D.			5320		GAS @ TD 44/10 1" H ² O

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

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

Date: FEBRUARY 22, 1988

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

6473

12/23/87
12/23/89

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850, 8, 670
- 2) Operator's Well Number: DOTSON #1 362-S 3) Elevation: 1183'
- 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: 5500 feet
- 7) Approximate fresh water strata depths: 150' / 45'
- 8) Approximate salt water depths: N/A / 100'
- 9) Approximate coal seam depths: N/A / 903'-908'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
From Redbridge 853, 1009, 2920, 3256
- 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 <i>CTS</i>
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23	1483	1483	38CSR18-11.3 <i>CTS</i>
Production	4 1/2	ERW	10.5	5500	1500	38CSR18-11.1 <i>CTS</i>
Tubing						
Liners						

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DEC 07 1987

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

For Division of Oil and Gas Use Only

491
239
Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPCP
1 plat 1 WW-9 1 WW-2B 1 Bond 50. Blanket Agent
(Type)

6473

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DEC 07 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: DECEMBER 4, 1987
2) Operator's well number
DOTSON #1 362-S
3) API Well No: 47 - 017 - 3622
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 JOHN R. CAMPBELL
Address 1401 MYERS AVENUE
DUNBAR, WV 25064
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 2, BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name VIRGINIA DOTSON
Address 7404 ORCHARD GROVE AVE.
CLEVELAND, OHIO 44144
Name _____
Address _____
(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: Benji A. Huntley
Its: VICE PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 4TH day of DECEMBER, 19 87

Richard K. Elswick
My commission expires OCTOBER 14, 1993 ~~XXXXXXXXXXXX~~ COMMISSIONER OF WV