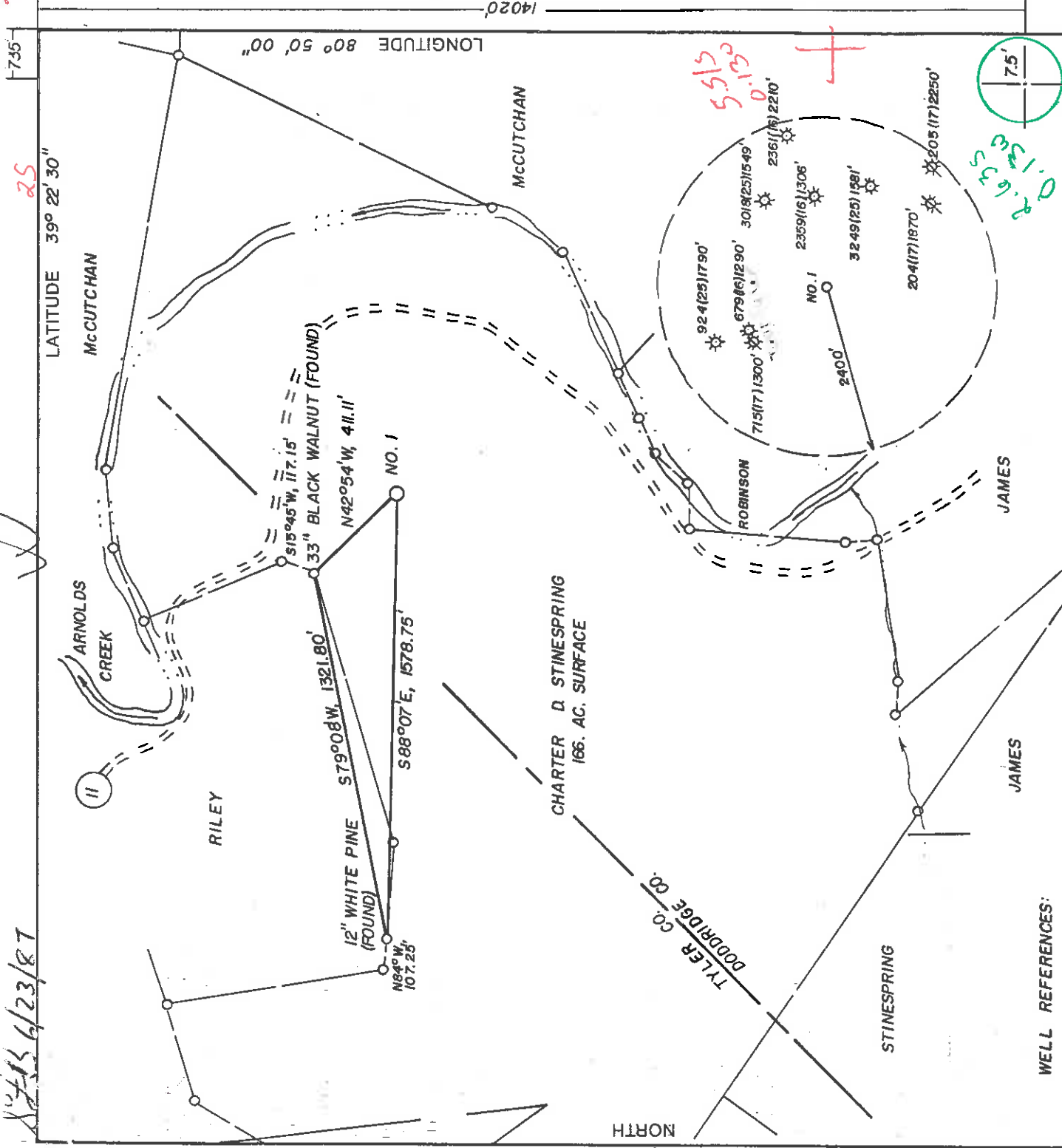


82-15 6/23/87



WELL REFERENCES:

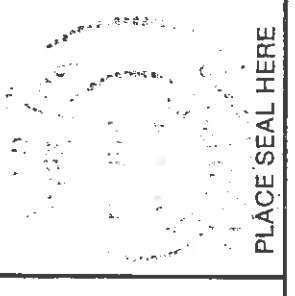
- 77.80' TO ANTENNA POLE (3 BLUE FLAGS)
- 118' TO ANTENNA POLE (3 PINK FLAGS)

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" = 500'
 MINIMUM DEGREE OF _____
 ACCURACY 1 IN 200
 PROVEN SOURCE OF _____
 ELEVATION ROAD INT. 725' SE. OF _____
 LOC. AT ELEV. 750'

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MAY 18, 19 87
 OPERATOR'S WELL NO. WAGNER NO. 1
 API WELL NO. _____

47-017-3559
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS:") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 832' WATER SHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5' 671 133 2-5
 SURFACE OWNER CHARTER D. STINESPRING
 OIL & GAS ROYALTY OWNER WAGNER LEASE ACREAGE 170.
 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 5000'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P.O. DRAWER R 545 ADDRESS JANE LEW, WV 26378-0080
 P.O. DRAWER R JANE LEW, WV 26378-0080

PERMIT
 JUNE 6 1987

6.6 Wilbour (92)

WR-35

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SEP 08 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

WELL OPERATOR'S REPORT

Date AUGUST 25, 87

Operator's

Well No. 182-S

Farm WAGNER #1

API No. 47 - 017 - 3559

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: 832 Watershed ARNOLDS CREEK

District: CENTRAL County DODDRIDGE Quadrangle WEST UNION 7.5'

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 CHARTER STINESPRING

ADDRESS BOX 264, WEST UNION, WV 26456

MINERAL RIGHTS OWNER SAME AS SURFACE

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK MIKE

UNDERWOOD ADDRESS RT 2, BOX 114, SALEM, WV

PERMIT ISSUED JULY 2, 87

DRILLING COMMENCED 08-19-87

DRILLING COMPLETED 08-23-87

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

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
11 3/4			
9 5/8	198	198	105 sks
8 5/8	1401	1401	320 sks
7			
5 1/2			
4 1/2	4896	4896	210 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON

Depth of completed well 4951 feet Rotary X / Cable Tools Depth 5000 feet

Water strata depth: Fresh 70 feet; Salt 1100 feet

Coal seam depths: 520-524 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4710 feet

Gas: Initial open flow 133 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 200 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 800 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation RILEY Pay zone depth 4300 feet

Gas: Initial open flow 89 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 200 Mcf/d Oil: Final open flow N/A Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 800 psig (surface measurement) after 72 hours shut in

SEP 14 1987

(Continue on reverse side)

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

FRAC TWO STAGES 8/28/87

BENSON	PERFS	HOLES	BBL	SAND	B.D.	I.S.I.P.
	<u>4709-4712</u>	8	500	50,000 #	2200 #	1400 #
RILEY	<u>4299-4324</u>	8	500	50,000 #	1600 #	1400 #

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WELL LOG
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
CLAY & FILL	BRN	SOFT	0	5	
RED ROCK	RED	SOFT	5	120	
SAND & SHALE	BRN	SOFT	120	520	1" STREAM WATER 250'
COAL	BLK	SOFT	520	524	
SAND & SHALE	GREY	SOFT	524	1670	
BIG LIME	GREY	HARD	1670	1760	
BIG INJUN	BRN	HARD	1760	1890	
WEIR	BRN	SOFT	2040	2160	GAS @ 1931 20/10 2" H20
BEREA	BRN	HARD	2240	2250	GAS @ 2213 16/10 2" H20
GORDON	GREY	HARD	2420	2500	GAS @ 2557 13/10 2" H20
WARREN	BRN	SOFT	3130	3200	
RILEY	BRN	HARD	4320	4380	GAS @ 4378 12/10 2" H20
BENSON	BRN	HARD	4740	4780	GAS @ 4846 20/10 2" H20
			<u>4951</u>		GAS @ 4972 8/10 2" H20
T.D.					GAS @ T.D. 4972 6/10 2" H20

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY
Well Operator

By: [Signature]
BENJAMIN A. HARDESTY, VICE PRESIDENT

Date: _____

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 ... of a well."

FORM WM-2 (B) FILE COPY
 (Obverse)
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 JUN 11 1987



1) Date: June 2, 19 87
 2) Operator's Well No. Wagner #1 182-S
 3) API Well No. 47 017 3559
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF OIL & GAS
 DEPARTMENT OF ENERGY
 APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil / Gas / Production B (If "Gas", Production 832' / Undergrnd storage Deep Shallow
 LOCATION: Elevation: 832' / Watershed: Arnolds Creek
 District: Central / County: Doddridge
 6) WELL OPERATOR: Stonewall Gas CODE: 47850 7) DESIGNATED AGENT: Charles W. Canfield
 Address: P.O. Drawer R Jane Lew, WV 26378
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name: Mike Underwood (782-1043)
 Address: Rt 2, Box 114 Salem, WV 26426

9) DRILLING CONTRACTOR:
 Name: S.W. Jack
 Address: Buckhannon, WV 26201
 10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION: Benson
 12) Estimated depth of completed well, 5,000 feet
 13) Approximate true depths: Fresh, 390 feet; salt, 0 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		FOOTAGE INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade			
Conductor	11 3/4				
Fresh water			For drilling: 300' 200'	Rule 15.05	Sizes
Coal					
Intermediate	8 5/8		1132'	Rule 15.05	Depths set
Production	4 1/2		5000'	Rule 15.05	
Tubing					Perforations:
Liners					Top
					Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3559 Date July 2 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires July 2, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Fee: 3531	Other: 310
---	--	-----------	------------

NOTE: Keep one copy of this permit posted at the drilling location.
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.
 Director, Division of Oil and Gas
 John T. Johnston

1028

