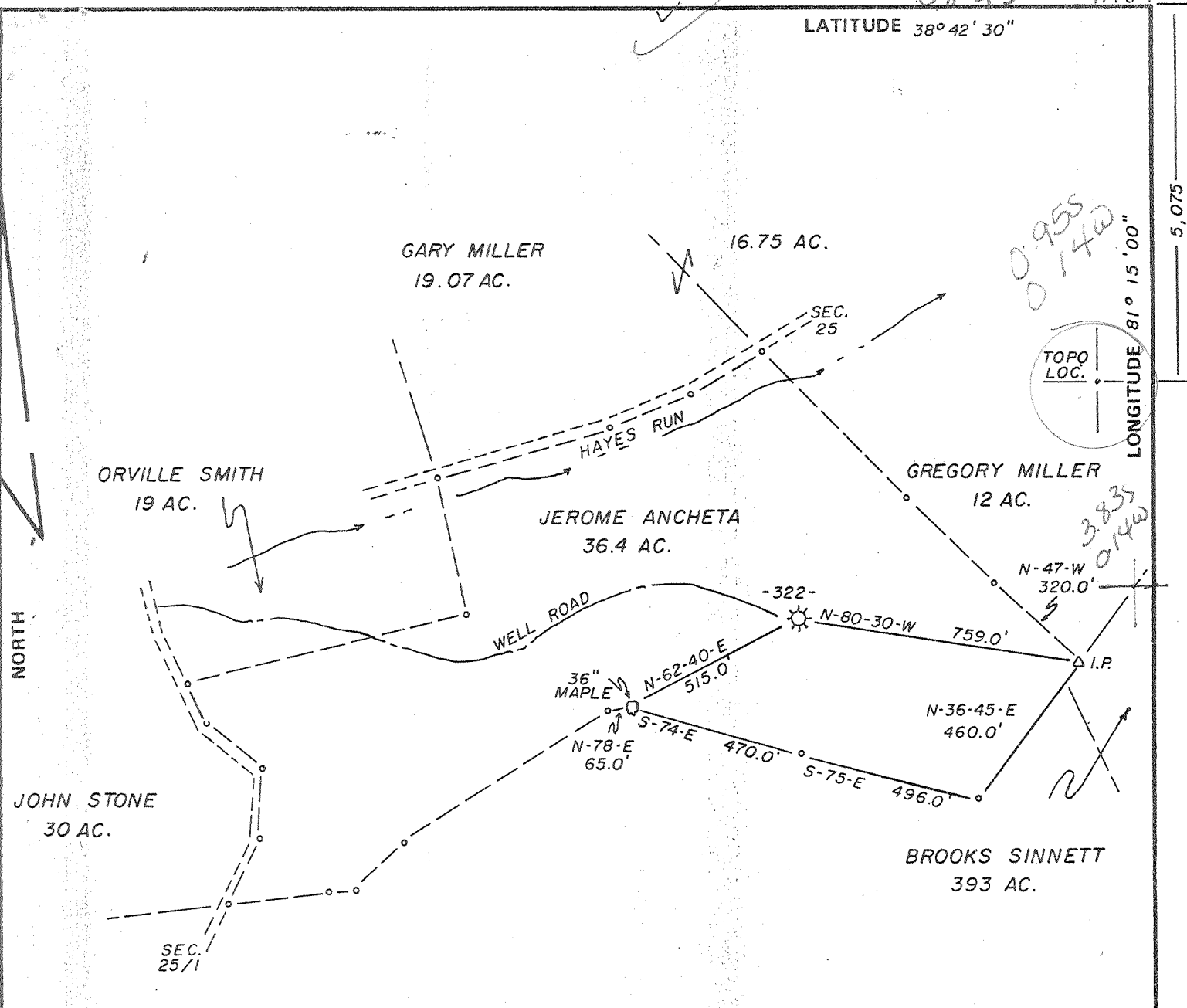


LATITUDE 38° 42' 30"

1775

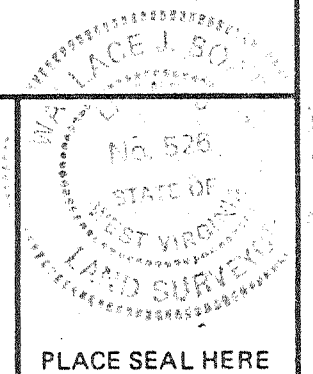
5,075



CO: 087 PMT: 4031  
 Loc Digitized from OGIS 7.5' Mylar  
 QUAD: 444 DATE: 4-JUN-90  
 LAT: 38 42.5 Miles South: 0.92  
 LONG: 81 15.0 Miles West : 0.14

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION B.M. 991 AT RD. INTER. 3000' WEST OF WELL.

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 MINES.  
 (SIGNED) *Walter J. Beard*  
 R.P.E. \_\_\_\_\_ L.L.S. 520



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE 2/19/1986  
 OPERATOR'S WELL NO. 2  
 API WELL NO. 47-087-4031-D  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1040 WATER SHED HAYES RUN  
 DISTRICT SMITHFIELD 5 COUNTY ROANE  
 QUADRANGLE LONNEYVILLE 7.5 444 125 NE 3 walton  
 SURFACE OWNER JEROME ANCHETA ACREAGE 36.4  
 OIL & GAS ROYALTY OWNER J.B. STONE HRS. LEASE ACREAGE 155  
 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 BIG INJUN ESTIMATED DEPTH 2060  
 WELL OPERATOR HARRY C. BOGGS DESIGNATED AGENT HARRY C. BOGGS  
 ADDRESS 882 CHARLESTON RD. 103 6000 ADDRESS 882 CHARLESTON RD. SPENCER W.V. 25276  
 6-6 Anna-Looneyville-Newton (198) NOV 17 1986



WR-35

FERC  
4/15/87

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 12/17/86  
Operator's  
Well No. Stone #1 - 322  
Farm Stone  
API No. 47 - 087 - 4031-DD

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 \_\_\_ / Underground Storage \_\_\_ / Deep x / Shallow \_\_\_ /)

LOCATION: Elevation: 1040 Watershed Hayes Run  
District: Smithfield County Roane Quadrangle Looneyville

COMPANY Harry C. Boggs

ADDRESS P.O. Box 148 Spencer, WV 25276

DESIGNATED AGENT Harry C. Boggs

ADDRESS P.O. Box 148 Spencer, WV 25276

SURFACE OWNER Douglas McPherson

ADDRESS Linden, WV

MINERAL RIGHTS OWNER John Stone

ADDRESS Spencer, WV 25276

OIL AND GAS INSPECTOR FOR THIS WORK Homer

Daughtery ADDRESS Linden, WV

PERMIT ISSUED 11/10/86

DRILLING COMMENCED 11/11/86

DRILLING COMPLETED 11/21/86

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 Cord.			
13-10"	10"	510	Existing
9 5/8			
8 5/8	8-5/8	900	Existing
7	6-5/8	1926	Existing
5 1/2			
4 1/2	5790	5790	3000'
3			
2			
Liners used	Plug	5850	

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5700 feet

Depth of completed well 5904 feet Rotary x / Cable Tools

Water strata depth: Fresh \_\_\_ feet; Salt 5904 feet

Coal seam depths: \_\_\_ Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 4236-5750 feet

Gas: Initial open flow 250 Mcf/d Oil: Initial open flow 0 Bbl/d

After Frac Final open flow 400 Mcf/d Final open flow 2 Bbl/d

Time of open flow between initial and final tests \_\_\_ hours

Static rock pressure 1000 psig (surface measurement) after 24 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

(Continue on reverse side)

APR 27 1987

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

1st Stage - 5740-5750    10 shots    2000 Gel HCl    50,000 Scf. N<sub>2</sub>

2nd Stage - 5640-4850    24 shots    30,000 # Sd    500,000 Scf N<sub>2</sub>

3rd Stage - 4790-4236    20 shots    50,000 # Sd    700,000 Scf N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Brown Shale			2000	5700	
Marcellus			5700	5728	
Corniferous Lime			5728	5890	
Oriskany			5890	TD 5904	
					404    2450
					813    3600
					822    4450
					825    4625
					830    4925

new TD 5904  
 old TD 2060  
 new Stg 3844

(Attach separate sheets as necessary)

Harry C. Boggs  
 Well Operator

By: Jeffery C. Boggs  
 Date: 12/17/86

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."

**OHIO VALLEY GAS CORP.**

J. B. Stone

Spencer

District

Form No. of Well on this Form

(2)

County W. Va. State

County W. Va. State

State

Work done June 20, 1923 to June 28, 1923

Initial rock pressure

Commenced July 12, 1923

Rig Completed July 17, 1923

Work Commenced August 25, 1923

Drilling Completed October 17, 1923

Contractor W. B. Heeter

Drilling Contractor W. B. Heeter

Supervisor D. W. Miller - S. Hinkle

Torpedo, L. D. Oct. 11, 1923

Supervisors Gay Roberts - Grover Young

Number of Quarts 20

FORMATION	TOP	THICKNESS	DEPTH	DEPTH TO	OTHER FLOW	SCALE	REMARKS
Fire Coal							Small show of gas at 1995' More gas from 2010 to 2014' Shot with 20 quarts from 2004 to 2014'. Gauge be- fore shot 6" W. 6/14" in 1" opening. Gauge 2 Hrs. after shot 2.2" W. in 2" opening.  Tubing by contractor with 2" 4-1/2# steel tubing. O.W. Sup. Co. gas anchor packer was 1/4", reduced to 2" with swedged nipples made by the O.W. Sup. Co. R.L. Nipple used above pac- ker. Red mud run on top of packer for about 10 feet. Well turned into line October 19 thru Emco meter.  Gauge after cleaning out and tubing 1.8" W. thru a 2" opening.
Blue Coal							
Blue Coal							
Blue Coal	770	870					
Blue Coal	1115	1180					
Blue Coal	1512	1890					
Blue Coal							
Blue Coal							
Blue Coal	1890	1985		1995 to 2014			
Blue Coal	1985	2025					
200.000							
TOTAL DEPTH							2060

**TUBING AND CASING RECORD**

**PACKER RECORD**

Date	Entered to Well		Put in Well		Pulled Out		Left in Well		Left at Well Put in Use		Size	Type	Depth Set		
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.			Feet	In.	
			510		510						8 1/2 x 6-5/8 B.H.			1920	S.L.
			900		900						6-5/8 x 4"				
7/8			1926				1926	10	S.L.	1920	Red. to				
			2125				2125		S.L.	2060	6-5/8 x 2" Gas Anchor			1985	S.L.

... and at what depth

... reasons for leaving additional strings

Approved by

R. L. Hays

Foreman

APR 27 1987

**RECEIVED**  
NOV 12 1986



1) Date: May 9, 19 86  
 2) Operator's Well No. Stone No. 1 322  
 3) API Well No. 47 -087-4031-D  
 State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY  
**APPLICATION FOR A WELL WORK PERMIT**

4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /  
 5) LOCATION: Elevation: 1040 Watershed: Hayes Run  
 District: Smithfield County: Roane Quadrangle: Looneyville 7.5  
 6) WELL OPERATOR Harry C. Boggs CODE: 6450 7) DESIGNATED AGENT Harry C. Boggs  
 Address P. O. Box 148 Address P. O. Box 148  
Spencer, WV 25276 Spencer, WV 25276  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Homer Daughtery Name Harry C. Boggs  
 Address \_\_\_\_\_ Address P. O. Box 148  
Spencer, WV 25276

10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION, Devonian Shale  
 12) Estimated depth of completed well, 5,500 feet  
 13) Approximate strata depths: Fresh, 100 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: N/A 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	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	<u>7"</u>						<u>1,926</u>	<u>Existing</u>		
Coal										
Intermediate										
Production	<u>4 1/2"</u>					<u>5,500</u>	<u>5,500</u>	<u>3,000 ft.</u>	<u>OK AS required by Rule 15.01</u>	
Tubing										
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-087-4031-D Date November 12 19 86

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 November 12, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WCCP	S&E	Other
<u>SB</u>	<u>ALB</u>	<u>MS</u>	<u>RS</u>	<u>13048</u>	<u>RS</u>	<u>RS</u>	

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]  
 Director, Division of Oil and Gas

File