

CODE

CAP

PLG

10,700' WEST

39° 25'

LATITUDE

39° 22' 30"

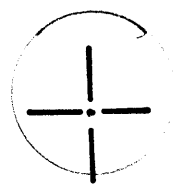
2650' SOUTH

81° 25'

81° 27' 30"

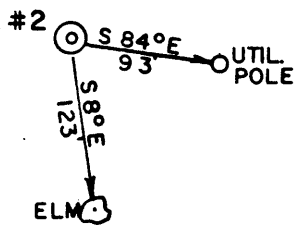
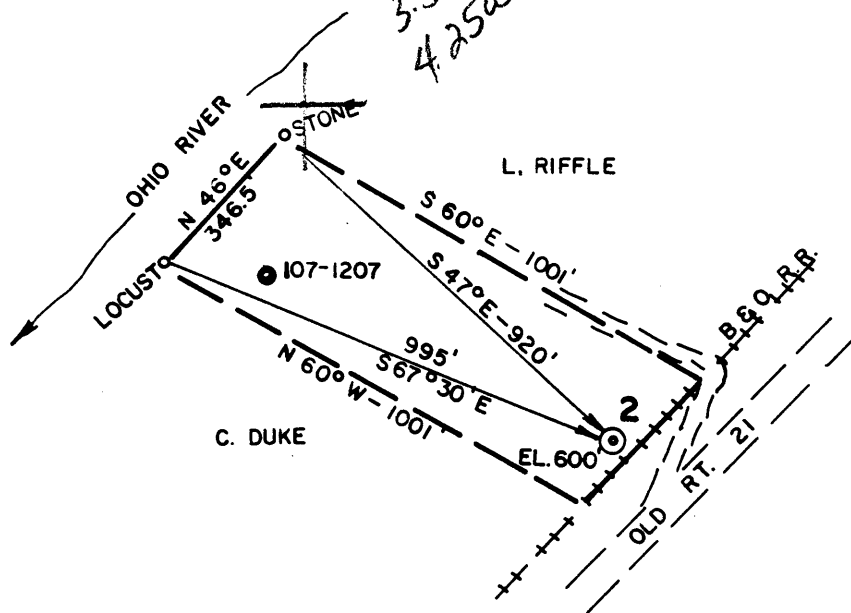
LONGITUDE

NORTH



0.475  
2.02w

3.355  
4.25w



SPY POINTS

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

FILE NO. 84-625  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1/200'  
 PROVEN SOURCE OF ELEVATION USGS B.M. (613')

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 MINES.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. 3788 L.L.S. \_\_\_\_\_



PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**



DATE 10/24, 19 84  
 OPERATOR'S WELL NO. 2  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 600' WATERSHED OHIO RIVER  
 DISTRICT WILLIAMS COUNTY WOOD  
 QUADRANGLE VALLEY MILLS 7.5' - 458 Marietta 15' WC4  
 SURFACE OWNER LAWRENCE RONNING ET. AL. ACRES 5  
 OIL & GAS ROYALTY OWNER LAWRENCE RONNING ET. AL. LEASE ACREAGE 5

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 BEREA ESTIMATED DEPTH 2500'  
 WELL OPERATOR BLAUSER WELL SERVICE DESIGNATED AGENT STANLEY K. WILSON  
 ADDRESS P. O. BOX 829 MARIETTA, OH 45750 ADDRESS RT. 1, BOX 116 BIG SPRINGS, WV 26137

DEC 03 1984

COUNTY NAME

PERM

FORM IV-6 (8-78)

H.T. HALL

**RECEIVED**  
 IV  
 (Reg. No. 81) JUN 4 - 1985  
 OIL & GAS DIVISION  
 DEPT. OF MINES



Date February 4, 1985  
 Operator's Well No. #2  
 Farm Lawrence Ronning  
 API No. 47 - 107 - 1329

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

WELL OPERATOR'S REPORT  
 OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 600 Watershed Ohio River  
 District: Williams County Wood Quadrangle Valley Mills

COMPANY Blauser Well Service, Inc.  
 ADDRESS P.O. 829, Marietta, Ohio 45750  
 DESIGNATED AGENT Stanley K. Wilson  
 Rt. #1  
 ADDRESS Box 116, Big Springs, WV 26137  
 SURFACE OWNER Lawrence Ronning  
 ADDRESS P.O. Box 86  
Parkersburg, WV 26101  
 MINERAL RIGHTS OWNER Same  
 ADDRESS      
 OIL AND GAS INSPECTOR FOR THIS WORK Glen  
Robinson ADDRESS Rt. 1, 6 Mt Pleasant  
Estate, Minerals Wells  
 PERMIT ISSUED 11-19-84 WV  
 DRILLING COMMENCED 11-30-84  
 DRILLING COMPLETED 12-04-84  
 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"			
9 5/8			
8 5/8	262	262	to surf.
7			
5 1/2			
4 1/2	1949	1949	500'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 1858' feet  
 Depth of completed well 1970 feet Rotary X / Cable Tools      
 Water strata depth: Fresh 40 feet; Salt 1362 feet  
 Coal seam depths:     Is coal being mined in the area? No

OPEN FLOW DATA  
 Producing formation Berea Pay zone depth 1858' feet  
 Gas: Initial open flow 62 Mcf/d Oil: Initial open flow 3 Bbl/d  
 Final open flow (62) Mcf/d Final open flow (3) Bbl/d  
 Time of open flow between initial and final tests 24 hours  
 Static rock pressure 720 psig (surface measurement) after 72 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)

JUN 21 1985

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

Perforated 1858 to 1864 w/13 shots

Fractured with 250 gal 15% HCl acid  
35,000 lb 20/40 mesh sand  
17,000 lb 10/20 mesh sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	700	
Shale			700	742	
Sand			742	842	
Shale			842	868	
Sand			868	914	
Shale			914	968	
Sand			968	998	
Shale			998	1078	
Sand			1078	1135	
Shale			1135	1217	
Sand			1217	1320	
Shale			1320	1363	
Big Injun			1363	1480	Salt water
Shale			1480	1826	
Coffee Shale			1826	1858	
<u>Berea</u>			1858	1964	Oil & Gas ✓
<u>Devonian Shale</u>			1964	<u>1970</u>	

(Attach separate sheets as necessary)

Blauser Well Service, Inc.  
Well Operator

By: James M. Hurd

Date: May 29, 1985

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."



1) Date: November 1, 19 84  
 2) Operator's Well No. L. Ronning #2  
 3) API Well No. 47 - 107 - 1329  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil X / Gas X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X)
- 5) LOCATION: Elevation: 600 Watershed: Ohio River  
 District: Williams County: Wood Quadrangle: Valley Mills 7.5'
- 6) WELL OPERATOR Blauser Well Service, Inc. 6000 7) DESIGNATED AGENT Stanley K. Wilson  
 Address P.O. Box 829 Address Route 1, Box 116  
Marietta, OH 45750 Big Springs, WV 26137
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Glen P. Robinson Name Bill Putnam  
 Address Route 1, #6 Mt. Pleasant Est. Address Mile Run Road  
Mineralwells, WV 26150
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Berea
- 12) Estimated depth of completed well, 2500' feet
- 13) Approximate trata depths: Fresh, 40 feet; salt, 1300 feet.
- 14) Approximate coal seam depths: n/a Is coal being mined in the area? Yes X / No \_\_\_\_\_
- 15) CASING AND TUBING PROGRAM

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 NOV 8 1984

OIL & GAS DIVISION  
 DEPT. OF MINES

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		
Conductor	16"				X	50'	50'	--	Kinds
Fresh water									
Coal									Sizes
Intermediate	7"	H-40	17#			250'	250'	250 SX	CTS NEAT
Production	4 1/2"	J-55	9.5	X		2000'	2000'	130 SX	
Tubing									Depths set
Liners									Perforations:
									.Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-107-1329 Date November 19, 19 84

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 19, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
19	SW	MW	MW	14416

*Margaret J. Hassie*  
 Administrator, Office of Oil and Gas

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.

File