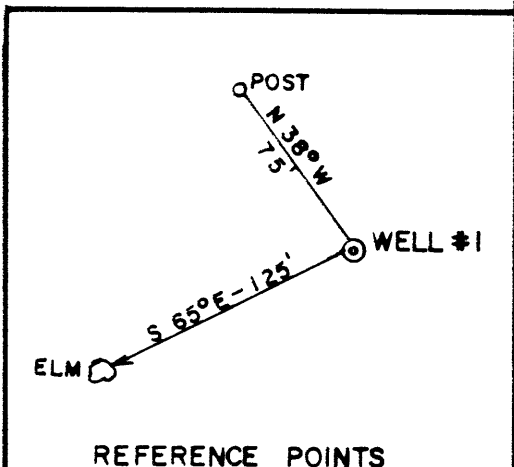
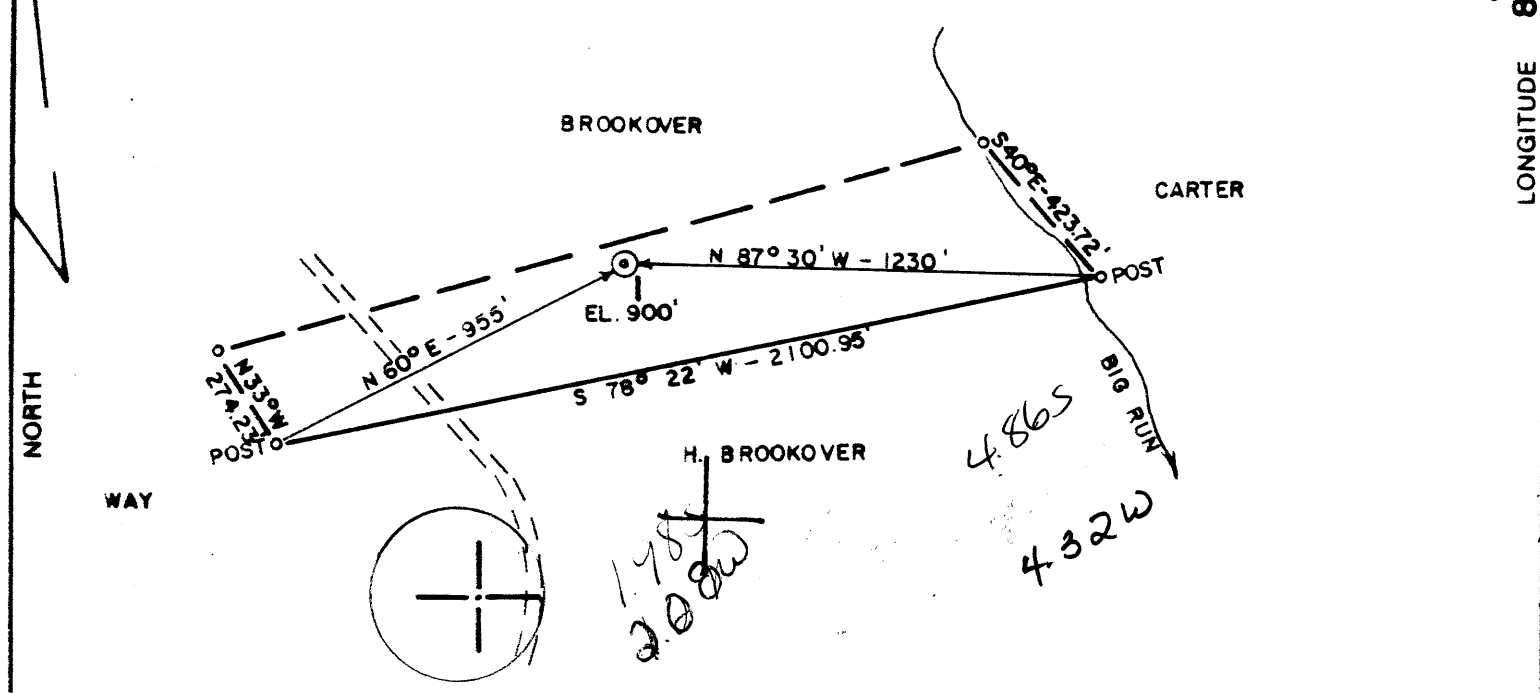


12-17-85 10,910' WEST 39 25  
 CODE \_\_\_\_\_ LATITUDE 39° 22' 30"  
 LONGITUDE 81° 27' 30"



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

FILE NO. 85-801  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200'  
 PROVEN SOURCE OF ELEVATION KNOB (1015')

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) Robert Waterman  
 R.P.E. 3788 L.L.S. \_\_\_\_\_



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



DATE 12/10, 1988  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-107-1388  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 900 WATER SHED BIG RUN  
 DISTRICT WILLIAMS COUNTY WOOD  
 QUADRANGLE VALLEY MILLS 7.5' (6.50) 073 WC 4 Marietta  
 SURFACE OWNER DEAN BROOKOVER ACREAGE 15  
 OIL & GAS ROYALTY OWNER DEAN BROOKOVER LEASE ACREAGE 15

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 95 ADDRESS RT. 1, BOX 116 BIG SPRINGS, WV 26137

COUNTY NAME PERMIT

IV-35  
(Rev 8-81)

RECEIVED  
SEP 10 1986



DIVISION OF OIL & GAS  
DEPARTMENT OF STATE of West Virginia  
Department of Mines  
Oil and Gas Division

Date September 5, 1986  
Operator's  
Well No. #1  
Farm Dean Brookover  
API No. 47 - 107 - 1388

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

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

LOCATION: Elevation: 900' Watershed Big Run  
District: Williams County Wood Quadrangle Valley Mills

COMPANY Blauser Well Service, Inc.  
ADDRESS Marietta, OH 45750  
DESIGNATED AGENT Stanley K. Wilson  
ADDRESS Big Springs, WV 26137  
SURFACE OWNER Harlan Dean Brookover  
ADDRESS Williamstown, WV 26187  
MINERAL RIGHTS OWNER same  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Glen  
Robinson ADDRESS Mineralwells, WV  
PERMIT ISSUED December 17, 1985  
DRILLING COMMENCED January 14, 1986  
DRILLING COMPLETED January 20, 1986  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON n/a

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"			
9 5/8			
8 5/8	350'	350'	surface
7			
5 1/2			
4 1/2	2276.80'	2276.80'	295 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 2300 feet  
Depth of completed well 2275 feet Rotary  / Cable Tools   
Water strata depth: Fresh 350 feet; Salt 1300 feet  
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Berea Pay zone depth 2208 feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 15 Mcf/d Final open flow 1 Bbl/d <sup>2?</sup> see IV-36 attached  
Time of open flow between initial and final tests 24 hours  
Static rock pressure 700 psig (surface measurement) after 108 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)

SEP 15 1986

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

Perforated interval 2208' - 2212' with 17 shots  
 Acidized with 250 gal. 15% HCL  
 Fractured well with 624 bbls. fluid and 41,000 lbs. 12/20 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			1004	1008	
Shale			1008	1096	
Sand			1096	1204	saltwater
Shale			1204	1324	
Sand			1324	1344	saltwater
Sand & Shale			1344	1746	
Big Injun Sand			1746	1880	saltwater
Shale			1880	2180	
Coffee Shale			2180	2208	
Berea Sand			2208	2212	oil & gas
Shale			2212	TD	
				TO 2277	
				6tm. 4 1/2" csg.	

(Attach separate sheets as necessary)

Blausser Well Service, Inc.

Well Operator

By: How M. Huck Sec./Treas.

Date: Sept. 5, 1986

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."

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Date: Sept. 5, 86  
Operator's Well No. #1 (D. Brookover)  
API Well No. 47 - 107 - 1388  
State County Ferris

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT  
OF  
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Blauser Well Service, Inc. DESIGNATED AGENT Stanley K. Wilson  
Address P.O. Box 829 Address Route 1, Box 116  
Marietta, OH 45750 Big Springs, WV 26137

GEOLOGICAL TARGET FORMATION: Berea Depth 2208 feet  
Perforation Interval 2208 - 2212 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE <u>6/15/86</u>	TIME <u>9:00 am</u>	END OF TEST-DATE <u>6/16/86</u>	TIME <u>9:00 am</u>	DURATION OF TEST <u>24 hours</u>
TUBING PRESSURE <u>545</u>	CASING PRESSURE <u>700 psig</u>	SEPARATOR PRESSURE <u>n/a</u>	SEPARATOR TEMPERATURE <u>n/a</u>	
OIL PRODUCTION DURING TEST <u>2</u> bbls.	GAS PRODUCTION DURING TEST <u>15</u> Mcf		WATER PRODUCTION DURING TEST & SALINITY <u>--</u> bbls. <u>--</u> ppm.	
OIL GRAVITY <u>46.5</u>	*API	PRODUCING METHOD (flowing, pumping, gas lift, etc.) <u>pumping</u>		

GAS PRODUCTION		
MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>	POSITIVE CHOKE <input type="checkbox"/> CRITICAL FLOW TROVER <input checked="" type="checkbox"/>	
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN. <u>1/8"</u>
DIFFERENTIAL	STATIC	GAS GRAVITY (Air-1.0) MEASURED ESTIMATED <u>.65</u>
GAS GRAVITY (Air-1.0)	FLOWING TEMPERATURE	GAS TEMPERATURE <u>60 °F</u>
24 HOUR COEFFICIENT	24 HOUR COEFFICIENT <u>6.25</u>	
		PRESSURE - <u>45 psia</u>

TEST RESULTS			
DAILY OIL <u>2</u> bbls.	DAILY WATER <u>none</u> bbls.	DAILY GAS <u>15</u> Mcf.	GAS-OIL RATIO <u>7,500</u> SCF/STB

Blauser Well Service, Inc.  
Well Operator  
By: Arno M. Huck  
Its: Secretary/Treasurer

SEP 15 1986

7/85

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DEC 17 1985



1) Date: Dec. 13, 1985  
2) Operator's Well No. #1 (D. Brookover)  
3) API Well No. 47 107 -1388  
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
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: 900' Watershed: Big Run  
District: Williams 095 County: Wood Quadrangle: Valley Mills 7.5'
- 6) WELL OPERATOR Dennis D. Blauser CODE: 6000 7) DESIGNATED AGENT Stanley K. Wilson  
Address Blauser Well Service, Inc. Address Route 1, Box 116  
P.O. Box 829, Marietta, OH 45750 Big Springs, WV 26137
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen P. Robinson 9) DRILLING CONTRACTOR:  
Address Rt 1, #6 Mt. Pleasant Est. Name Warren Drilling  
Mineralwells, WV 26150 Address Dexter City, OH 45727
- 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, Berea 395
- 12) Estimated depth of completed well, 2300' feet
- 13) Approximate trata depths: Fresh, 320' feet; salt, 1500' 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		
Conductor									Kinds
Fresh water	8 5/8	H-40	24	X		350'	350'	to surface	<i>By rule 15.05</i>
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	9.5	X		2300'	2300'	500'	<i>to cover salt sands</i>
Tubing									
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-107-1388 Date December 17 1985

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 December 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<i>FB</i>	<i>MUMK 17210</i>					

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

*[Signature]*  
Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.