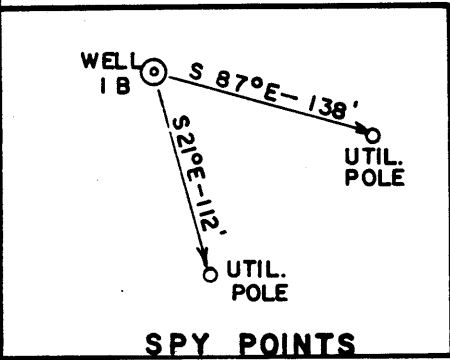
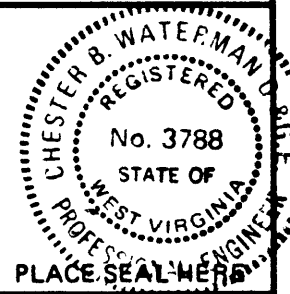


LONGITUDE 81° 27' 30"



FILE NO. 84-685
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION ROUTE 14 (649')

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) Chester B. Waterman
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 11/19 19 84
 OPERATOR'S WELL NO. IB
 API WELL NO. 47-107-1337
 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 604' WATER SHED OHIO RIVER
 DISTRICT WILLIAMS COUNTY WOOD
 QUADRANGLE VALLEY MILLS 7.5 Marietta 15' WC4
 SURFACE OWNER I. L. JOHNSON ACREAGE 3
 OIL & GAS ROYALTY OWNER I. L. JOHNSON LEASE ACREAGE 3
 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 BEREA ESTIMATED DEPTH 2500'
 WELL OPERATOR BLAUSER WELL SERVICE DESIGNATED AGENT STANLEY K. WILSON Boaz (70)
 ADDRESS P. O. BOX 829 MARIETTA, OH 45750 ADDRESS RT. 1, BOX 116 BIG SPRINGS, WV 26137

JAN 7 1985

RECEIVED

JUN 4 - 1985



IV-35

(Rev 8-81)

OIL & GAS DIVISION

DEPT. OF MINES

State of West Virginia

Department of Mines

Oil and Gas Division

Date 5/29/85

Operator's

Well No. Irene Johnson 1-B

Farm Irene Johnson

API No. 47 - 107 - 1337

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 x /)

LOCATION: Elevation: 604 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, Box 116
ADDRESS Big Springs, WV 26137

SURFACE OWNER Irene Johnson

ADDRESS Rt. #2, Box 119 Williamstown, WV

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 12/12/84

DRILLING COMMENCED 12/15/84

DRILLING COMPLETED 12/19/84

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.			
13-10"			
9 5/8			
8 5/8	257	257	to surf.
7			
5 1/2			
4 1/2	1929	1929	500 ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 1858 feet

Depth of completed well 1940 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 40 feet; Salt 1300 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 75 Mcf/d Oil: Initial open flow 4 Bbl/d

Final open flow 75 Mcf/d Final open flow 4 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 620 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 JUN 24 1985

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

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

Perf. 1858 to 1864 13 shots

Hydravlically fractured with 200 gal 15% Hcl
41,000 lbs 20/40 mesh sand
22,500 lbs 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	760	
sand			760	854	
shale			854	876	
sand			876	926	
shale			926	986	
sand			986	1009	
shale			1009	1079	
sand			1079	1106	
shale			1106	1190	
sand			1190	1306	
shale			1306	1368	
Big Injun sand			1368	1482	
Shale			1482	1808	
coffee shale			1808	1858	
<u>Berea</u>			1858	1864	Oil & Gas
Devonian shale			1864	<u>1940 TD</u>	
				Berea@T.D.	

(Attach separate sheets as necessary)

Blauser Well Service, Inc.
Well Operator

By: Ann M. Huel

Date: May 31, 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."

RECEIVED
COPY
DEC 06 1984



1) Date: November 27, 19 84
 2) Operator's Well No. Irene Johnson #1 B
 3) API Well No. 47 - 107 - 1337
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 604 Watershed: Ohio River
 District: Williams County: Wood Quadrangle: Valley Mills 7.5'
- 6) WELL OPERATOR Blausler Well Service, Inc. 7) DESIGNATED AGENT Stanley K. Wilson
 Address P.O. Box 829 Address Route 1, Box 116
Marietta, OH 45750 6000 Big Springs, WV 26137
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Glen P. Robinson Name Bill Putnam
 Address Rt. 1, #6 Mt. Pleasant Est. Address Mile Run Road
Mineral wells, WV 26150 Marietta, OH 45750
- 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
- 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 _____ / 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									
Coal									Sizes
Intermediate	<u>8 5/8</u>	<u>H-40</u>	<u>24</u>	<input checked="" type="checkbox"/>		<u>250'</u>	<u>250'</u>	<u>to surface</u>	<u>by rule 15.05</u>
Production	<u>4 1/2</u>	<u>K-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>2500'</u>	<u>2500'</u>	<u>1100'</u>	Depths set
Tubing									<u>as required by rule</u>
Liners									Perforations: <u>15.0'</u>
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1337 Date December 12, 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 December 12, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>19</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>014597</u>

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