



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE **1"=500'**  
 MINIMUM DEGREE OF ACCURACY **1:200**  
 PROVEN SOURCE OF ELEVATION **RD. INT. ELEV. 1089'**

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) *William P. Mosser*  
 R.P.E. \_\_\_\_\_ L.L.S. **551**

PLACE SEAL HERE

(S) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (3-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE **26 FEBRUARY**, 19 **82**  
 OPERATOR'S WELL NO. **#1**  
 API WELL NO. **(ROY SMITH)**  
**47 - 073 - 1445**  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION **1050'** WATER SHED **WOLF RUN**  
 DISTRICT **UNION** COUNTY **PLEASANTS**  
 QUADRANGLE **RAVEN ROCK 7 1/2' QUAD. St. Marys, NC**  
 SURFACE OWNER **M.V. SMITH** ACREAGE **40**  
 OIL & GAS ROYALTY OWNER **ROY SMITH** LEASE ACREAGE **40**  
 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 **MARCELLUS SHALE** ESTIMATED DEPTH **5600'**  
 WELL OPERATOR **L B OIL CO., INC.** DESIGNATED AGENT **LOREN E. BAGLEY**  
 ADDRESS **210 2ND STREET ST. MARYS, W.VA. 26170** ADDRESS **210 2ND STREET ST. MARYS, W.VA. 26170**

FEB 29 1982



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

- Stage 1 - Perfs. from 3822 to 4016 Frac with 50,000 S.C.F. of N2. Brakedown 2675  
300 gal. 1.5% acid.
- Stage 2 - Perfs. from 3544 to 3770, frac with 50,000 S.C.F. of N2. Brakedown 3300  
*slurry*
- Stage 3 - Perfs. from 20 holes 3048 to 3450, frac with 50,000 S.C.F. of N2.  
Brakedown 4000  
*Up.Dev.*

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			0	40	
Red Shale			40	200	Water 175'
Shale and Shells			200	220	
Sand			220	260	Water 260'
Shale			260	454	
Red Shale			454	840	
Sand			840	1240'	
Shale			1240	1300	
Sand			1300	1420	
Shale			1420	1500	
Sand			1500	1740	Show of gas 1610'
Lime and Sand		<i>Big Lime / Big Injun?</i>	1740	1975	Show of gas 1919'
Shale			1975	TD	Show of gas 4630'
<i>Huron @ TD</i>				<i>5670</i>	
				<i><del>4150</del> - TD.</i>	
				<i>2400</i>	
				<i>1720</i>	

(Attach separate sheets as necessary)

L & B Oil Company, Inc.

Well Operator

By: *Bernard Tice* Bernard O. Tice, President  
Date: January 10, 1983

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic

RECEIVED

MAR 04 1982

FORM IV-2 (Obverse)

OIL AND GAS DIVISION WV DEPARTMENT OF MINES



Well No. 1
Farm Roy SMITH
API #47-073-1445
Date 3-2-82

(Revised 3-81)

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /

(If "Gas", Production X / Underground storage / Deep / Shallow /)

LOCATION: Elevation: 1050' Watershed: WOLF RUN
District: UNION County: PLEASANTS Quadrangle: RAVEN ROCK

WELL OPERATOR L.E.B OIL Co., Inc.
Address Box C
ST. MARYS, W.VA. 26170

DESIGNATED AGENT LOREN E. Bagley
Address Box C
ST. MARYS, W.VA. 26170

OIL AND GAS ROYALTY OWNER Roy Smith
Address Mt. Carmel Rd.
ST. MARYS, W.VA. 26170
Acreage 40

COAL OPERATOR NONE
Address

SURFACE OWNER Roy Smith
Address Mt. Carmel Rd.
ST. MARYS, W.VA. 26170
Acreage 40

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME
Address N/A

FIELD SALE (IF MADE) TO:
NAME N/A
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME NONE
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME ROBERT Lowther
Address 3rd St.
MIDDLEBORNE, W.VA.
Telephone 758-4264

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated 3-12, 1980, to the undersigned well operator from Roy Smith et al

(If said deed, lease, or other contract has been recorded:)

Recorded on 3-24, 1980, in the office of the Clerk of County Commission of PLEASANTS County, West Virginia, in 155 Book at page 215. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1613 WASHINGTON ST., E. CHARLESTON, WV 25301

BLANKET BOND L.E.B OIL Co., Inc. Well Operator

By: Loren E. Bagley

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) NOT KNOWN AT THIS TIME

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION: Marcellus Shale  
Estimated depth of completed well 5600 feet. Rotary X / Cable tools     /  
Approximate water strata depths: Fresh, 95 feet; salt, N/A feet.  
Approximate coal seam depths: N/A  
Is coal being mined in this area: Yes     / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling		
Conductor	<u>11 3/4</u>			<u>X</u>		<u>70'</u>	<u>70'</u>	Kinds
Fresh water	<u>8 5/8</u>		<u>20#</u>	<u>X</u>		<u>1200'</u>	<u>1200'</u>	<u>TO SURFACE</u>
Coal								Sizes
Intermed.								
Production Tubing	<u>4 1/2"</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5600'</u>	<u>Rule 1501</u> Depths set
Liners								Perforations: Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-5, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-5-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.  
A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling THIS PERMIT SHALL EXPIRE:  
IF OPERATIONS HAVE NOT COMMENCED BY 11-10-82  
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator     / owner     / lessee     / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date:    , 19   .

By: \_\_\_\_\_