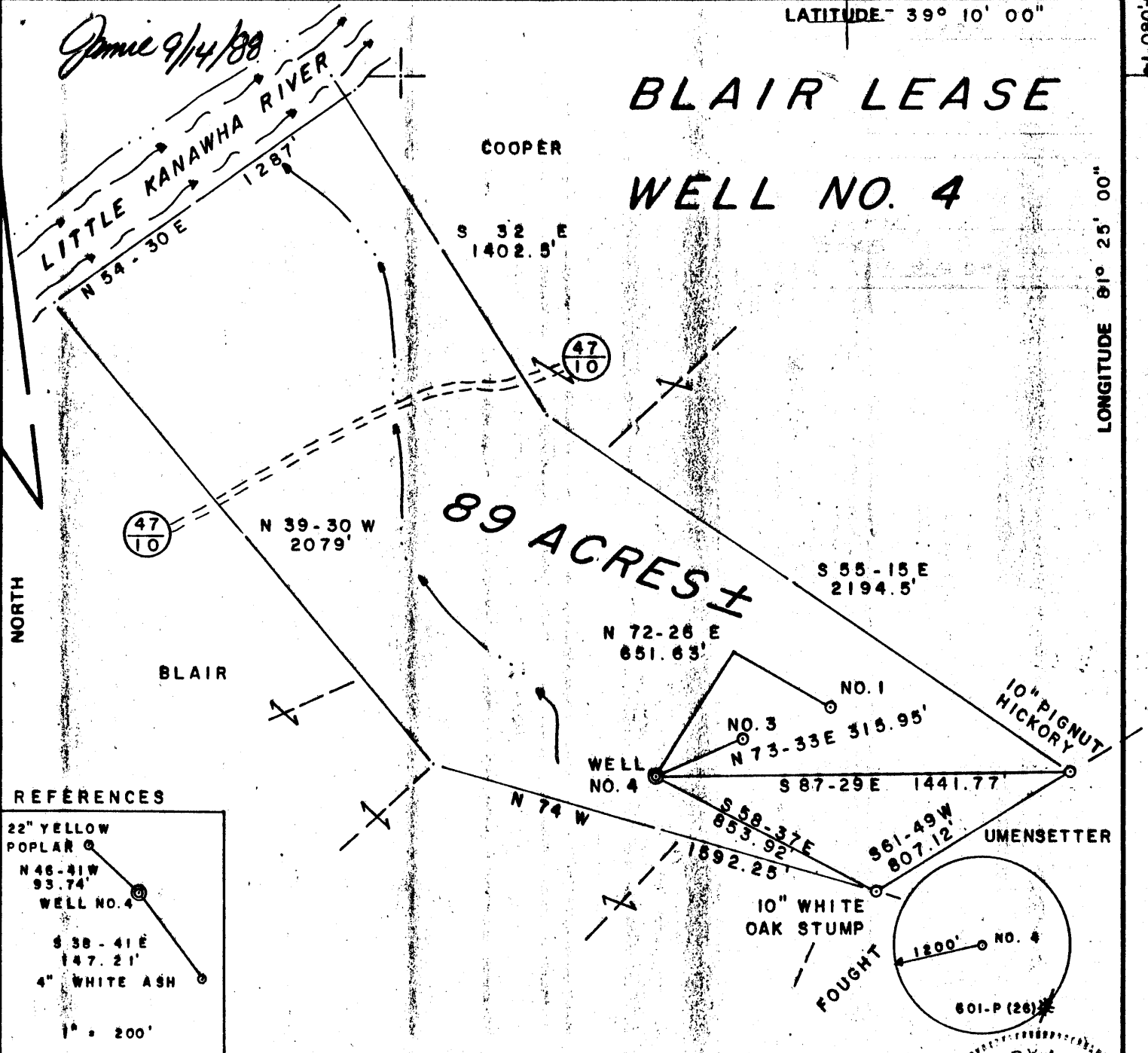


1.572 6/18/84

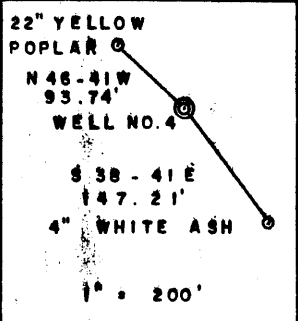
9,990'

LATITUDE - 39° 10' 00"

LONGITUDE 81° 25' 00"

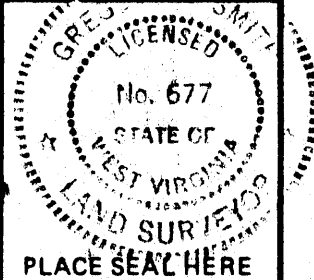


REFERENCES



FILE NO. 12 - 57  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS  
ELEV. 686'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



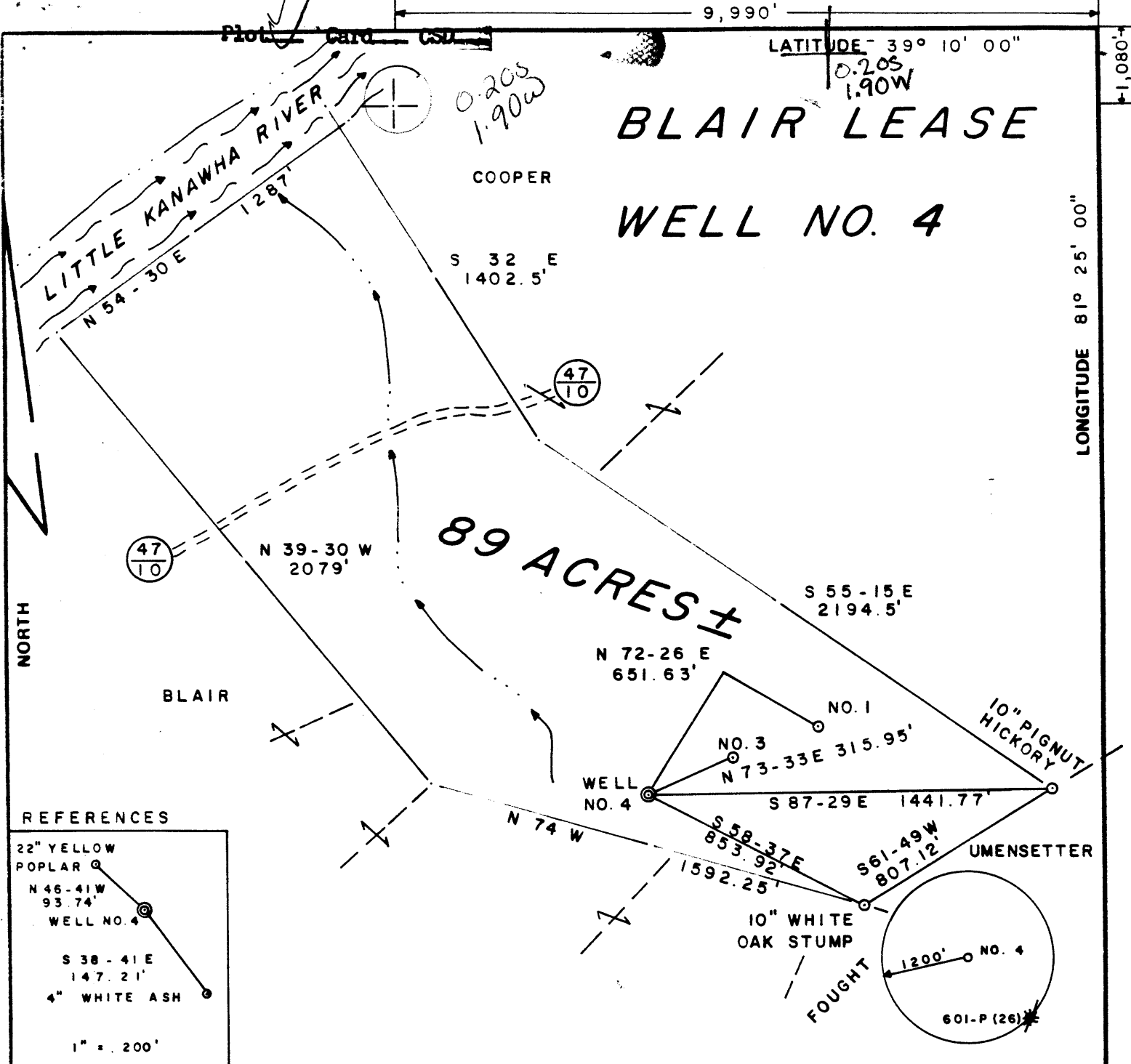
DATE JUNE 13, 19 84  
 OPERATOR'S WELL NO. 4  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1310-Rev-1P  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 748' WATERSHED LITTLE KANAWHA RIVER  
 DISTRICT CLAY COUNTY WOOD  
 QUADRANGLE KANAWHA 7.5'  
 SURFACE OWNER EVELINE BLAIR ACREAGE 89  
 OIL & GAS ROYALTY OWNER EVELINE BLAIR LEASE ACREAGE 275  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4100'  
 WELL OPERATOR JAY - BEE OIL & GAS DESIGNATED AGENT RANDY BRODA  
 ADDRESS 1720 RT. 22 EAST ADDRESS RT 1 Box 5  
UNION, NJ 07083 CAIRO, WV 26337

SEP 19 1988

WOOD 1310



FILE NO. 12-57  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS  
ELEV. 686'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE JUNE 13, 19 84  
 OPERATOR'S WELL NO. 4  
 API WELL NO. 47-107-1310  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION ELEVATION 748' WATER SHED LITTLE KANAWHA RIVER  
 DISTRICT CLAY 1 COUNTY WOOD  
 QUADRANGLE KANAWHA 7.5'43 ELIZABETH 038 WC4  
 SURFACE OWNER EVELINE BLAIR ACREAGE 89  
 OIL & GAS ROYALTY OWNER EVELINE BLAIR LEASE ACREAGE 275  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION INJUN ESTIMATED DEPTH 2000'  
 WELL OPERATOR JAY-BEE OIL & GAS DESIGNATED AGENT RANDY BRODA  
 ADDRESS 1720 RT. 22 EAST 728 ADDRESS RT 1 Box 5  
UNION, NJ 07083 CAIRO, WV 26337

JUL 2 1984



WR-35 RECEIVED  
DEC - 9 1985

DIVISION OF OIL & GAS  
DEPT. OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date DECEMBER 5, 1985  
Operator's Well No. 4  
Farm BLAIR  
API No. 47-107-1310 REV.

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 \_\_\_ / Shallow X /)

LOCATION: Elevation: 748' Watershed LITTLE KANAWHA RIVER  
District: CLAY County WOOD Quadrangle KANAWHA 7.5'

COMPANY JAY-See Oil Co  
ADDRESS 1720 Rt. 22. EAST UNION, N.J. 0783  
DESIGNATED AGENT RAJAY J. BRODA  
ADDRESS Rt. 1 Box 5 CAIRO, W.VA. 26337  
SURFACE OWNER EVELINE BLAIR  
ADDRESS Buckner Bend Road, (Lechtown) W.VA.  
MINERAL RIGHTS OWNER EVELINE BLAIR  
ADDRESS Same as Above  
OIL AND GAS INSPECTOR FOR THIS WORK GLEN P. ROBINSON ADDRESS: MINERAL WELLS W.VA. 26150  
PERMIT ISSUED JUNE 25, 1984  
DRILLING COMMENCED JUNE 28, 1984  
DRILLING COMPLETED AUGUST 31, 1984  
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	20'	20'	
13-10"	202'	203'	50 SKS.
9 5/8			
8 5/8	1150'		
7	1831'		
5 1/2			
4 1/2		3203'	60 SKS.
3			
2 7/8		3700'	
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth 4100 feet  
Depth of completed well 3900 feet Rotary \_\_\_ / Cable Tools X  
Water strata depth: Fresh 75' feet; Salt \_\_\_ feet  
Coal seam depths: \_\_\_ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation SHALE Pay zone depth 3450-3600 feet  
Gas: Initial open flow Small Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 104 Mcf 99% 3/4 WPM Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 250 psig (surface measurement) after 48 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)

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

Aug Back to 3700'

Huron  
3200-3700 N<sub>2</sub> Flac w/ METHANOL

9/17/84

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
RED ROCK / SLATE			0	155	
SAND			155	160	
RED ROCK / Lime / SLATE			160	595	
SAND HARD			595	640	
RED ROCK / SLATE			640	730	
SAND			730	745	
RED ROCK / SLATE			745	1100	
SAND - salt sand			1100	1175	2 B.P. 4. SALT C 1160
SANDY SLATE			1175	1675	
SAND - salt sand			1675	1788	SALT WATER C 1716-1720
SLATE			1788	1835	
SAND - Big injun po'			1835	1855	
SLATE			1855	1920	
LIME			1920	1960	
SHALE			1960	2230	
SAND			2230	2232	
SHALE			2232	2325	
LIME			2325	2460	
SANDY SHALE			2460	3900 T.D.	SMELL GAS C 3600.

Huron @ TD.

From nearby log  
up Res top thickness 2450 1215  
w/ Huron 3265

(Attach separate sheets as necessary)

JAY-BEE OIL + GAS Co.

Well Operator

By: 

Date: DECEMBER 5, 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 ... encountered in the drilling of a well."

**PERMIT**  
**FILE COPY**



1) Date: JUNE 13, 19 84  
 2) Operator's Well No. 4  
 3) API Well No. 47 - 107 - 1310  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

*Revised*

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

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X)
- 5) LOCATION: Elevation: 748' Watershed: LITTLE KANAWHA RIVER (LK)  
 District: CLAY 1 County: WOOD Quadrangle: KANAWHA 7.5' 413
- 6) WELL OPERATOR JAY-BEE OIL & GAS CO. 24610 7) DESIGNATED AGENT RANDY BRODA  
 Address 1720 RT. 22 EAST Address RT. 1, BOX 5  
UNION, N.J. 07083 CAIRO, WV 26337
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name SAMUEL N. HERSMAN Name JAMES FORDYCE  
 Address P.O. BOX 66 Address RT. 2, BOX 548  
SMITHVILLE, WV 26178 PARKERSBURG, WV 26101
- 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, DEVONIAN SHALES
- 12) Estimated depth of completed well, 2000' 4100' feet
- 13) Approximate strata depths: Fresh, 75' feet; salt, N/A feet.
- 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes X
- 15) CASING AND TUBING PROGRAM

**RECEIVED**

JUN 14 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	Kinds	Sizes
Conductor	10 3/4					<u>230</u>	<u>230</u>	FILL UP	Kinds <u>CTS NEAT</u>	
Fresh water	8 5/8					<u>1200-50-230'</u>	<u>0-150-230'</u>	<u>CTS NEAT</u>		
Coal									Sizes	
Intermediate	<u>7'</u>					<u>1850</u>	<u>0</u>			
Production	<u>4 1/2</u>					<u>2000' 4100'</u>	<u>2000' 4100'</u>	AS REQUIRED	Depths set	
Tubing								BY RULE	<u>15-01</u>	
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-107-1310 Date June 25, 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 June 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>ls</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>3568</u>
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*[Signature]*  
Administrator, Office of Oil and Gas



1) Date: JUNE 13, 19 84  
 2) Operator's Well No. 4  
 3) API Well No. 47 - 107 - 1310  
 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  / Gas  / B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 748' Watershed: LITTLE KANAWHA RIVER (LK)  
 District: CLAY County: WOOD Quadrangle: KANAWHA 7.5'  
 6) WELL OPERATOR JAY-BEE OIL & GAS CO. 7) DESIGNATED AGENT RANDY BRODA  
 Address 1720 RT. 22 EAST Address RT. 1, BOX 5  
UNION, NJ 07083 CAIRO, WV 26337  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name SAMUEL N. HERSMAN 9) DRILLING CONTRACTOR: Name JAMES FORDYCE  
 Address P.O. BOX 66 Address RT. 2, BOX 548  
SMITHVILLE, WV 26178 PARKERSBURG, WV 26101

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, INJUN  
 12) Estimated depth of completed well, 2000' feet  
 13) Approximate strata depths: Fresh, 75' feet; salt, N/A feet.  
 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes  No

**RECEIVED**  
 JUN 14 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	10 3/4					20	0	FILL UP		
Fresh water	8 5/8					150' 230'	150' 230'	CTS INCAT		
Coal										
Intermediate										
Production	4 1/2					2000'	2000'	AS REQUIRED BY RULE	Depths set	15-01
Tubing									Perforations:	
Liners									Top	Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-107-1310

June 25, 19 84  
 Date

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 June 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

BOARD BLANKET	Agent: <u>LS</u>	Plat: <u>MM</u>	Casing: <u>MM</u>	Fee: <u>3568</u>
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T. R. P. A.  
 Administrator, Office of Oil and Gas

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

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: BLAIR, EVELINE H. Operator Well No.: BLAIR 4 (B-1-C)

LOCATION: Elevation: 769.00 Quadrangle: KANAWHA  
District: CLAY County: WOOD  
Latitude: 750 Feet South of 39 Deg. 10 Min. 0 Sec.  
Longitude 9350 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: JAY-BEE OIL & GAS Co.  
1722 Rt. 22 East  
Union, N.J. 07083

Coal Operator or Owner: \_\_\_\_\_

Agent: RAY J. BROOK  
Inspector: GLEN ROBINSON  
Permit Issued: 09/15/88

Coal Operator or Owner: \_\_\_\_\_



AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

ss: RAY J. BROOK and FRED SCHULHUIS  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by JAY-BEE OIL & GAS Co., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 18th day of September, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
GEL	3700	3250		
CEMENT	3250	3150		
GEL	3150	2450		
CEMENT	2450	2350	4 1/2 - 2506'	
GEL	2350	1750		
CEMENT	1750	1650		
GEL	1650	1200		
CEMENT	1200	1100		
GEL	1100	225		10 3/4 - 202'
CEMENT	225	175		
GEL	175	100		
CEMENT	100	0		

Description of monument: 3' - 8 5/8" Pipe w/ Permit # 46920-00

and that the work of plugging and filling said well was completed on the 19th day of September, 1988.

And further deponents saith not.

RAY J. BROOK  
FRED SCHULHUIS

Sworn and subscribe before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

My commission expires: ANNA J. THOMAS  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires July 31, 1992

Anna J. Thomas  
Notary Public