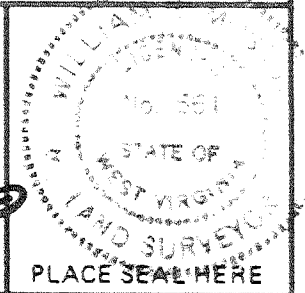


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE **1"=500'**  
 MINIMUM DEGREE OF ACCURACY **1:200**  
 PROVEN SOURCE OF ELEVATION **BM ELEV. 603'**

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 R. Howard*  
 R.P.E. \_\_\_\_\_ L.L.S. **551**



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



DATE **15 OCTOBER**, 19**84**  
 OPERATOR'S WELL NO. **PICKENS #4**  
 API WELL NO. \_\_\_\_\_  
**47 - 073 - 1980**  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION **370'** WATER SHED **BRANCH OF FRENCH CREEK**  
 DISTRICT **WASHINGTON 6** COUNTY **PLEASANTS**  
 QUADRANGLE **SCHULTZ 7 1/2' QUAD. 600 116 WC**  
 SURFACE OWNER **TOM CONWAY** ACREAGE **115.75**  
 OIL & GAS ROYALTY OWNER **CLARENCE PICKENS** LEASE ACREAGE **115.75**  
 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 FORMATIONS **SPEECHLY-BALLTOWN** ESTIMATED DEPTH **4000'**  
 WELL OPERATOR **AMERICAN PIPELINE** DESIGNATED AGENT **BERNARD TICE** **NOV 25 1985**  
 ADDRESS **210 SECOND ST. P.O. BOX C ST. MARYS, W.VA. 26170** ADDRESS **210 SECOND ST. P.O. BOX C ST. MARYS, W.VA. 26170**



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

20 Perfs 2339' - 2383' *Open*

Fraced with 828 bbls. H2O, 23,000 lbs. 20/40 sand, 100,000 SCF N2  
 Instant Shut-In 1400 lbs 5 min. 1180 lbs.

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 and Sandstone			0	160	fresh water
Red and Brown Shale			160	1940	
Berea			1940	1944	
Shale			1944	2346	
Gordon			2346	2352	
Gordon Stray			2372	2381	
Shale			2381	<u>2550 TD</u>	

(Attach separate sheets as necessary)

American Pipeline & Exploration Company  
 Well Operator

By: Bernard Tice

Date: April 28, 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."

FILE COPY  
**RECEIVED**  
NOV 14 1985



1) Date: Oct. 31, 1985  
2) Operator's Well No. Pickens #4  
3) API Well No. 47-073-1980  
State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

- 4) WELL TYPE: A Oil XX / Gas XX /  
B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 770' Watershed: Branch of French Creek  
District: Washington 442 County: Pleasants Quadrangle: Schultz 7 1/2'
- 6) WELL OPERATOR American Pipeline & Exploration Company CODE: 1775 7) DESIGNATED AGENT Bernard Tice  
Address 210 2nd St., St. Marys, WV 26170 Address 210 Second Street  
St. Marys, WV 26170
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther 9) DRILLING CONTRACTOR:  
Address Middlebourne, WV 26149 Name Unknown  
Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX /  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Speechley/Balltown 401  
12) Estimated depth of completed well, 4000 feet  
13) Approximate trata depths: Fresh, 35 2/20' feet; salt, N/A feet.  
14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_ / No XX /

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	11 3/4			X		<del>1100</del> 40' / 50'	<del>500</del> 50'	C.T.S. by rule 15.05	
Fresh water									
Coal									Sizes
Intermediate	8 5/8		23	X		950'	950'	to surface	
Production	4 1/2		10.5	X		4000'	4000'	400 sks. <i>or as required by rule 15.01</i>	
Tubing									Perforations:
Lin...									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-073-1980 Date November 14 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 November 14, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>MW</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>266</u>	WPCP: <u>MW</u>	S&E: <u>MW</u>	Other: _____
---	------------------	-----------------	-------------------	-----------------	-----------------	----------------	--------------

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

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