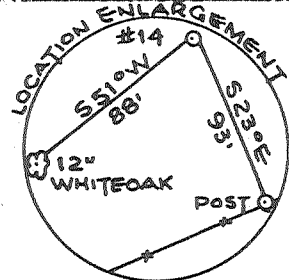


Janie 8/8/89

LATITUDE 39°25'



4" BLACK WALNUT

WESTVACO

N45°E 2673'

C.B. TICE
148 ACRES

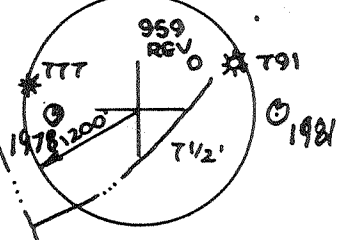
S42°E 998.25'

N30°W 1023'

WHITEOAK

S50°W 379.5'

STONE



POWELL

NORTH 16.7 ACRE EXCEPTION

TO SUGAR CREEK

TO SUGAR CREEK

N45°W 2623.5'

WESTVACO

DAVIS

S66°W 1996.5'

BOOHER HEIRS

LONGITUDE 81°02'30"

6009

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH POINT
 ELEV. 1058'

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) [Signature]
 R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



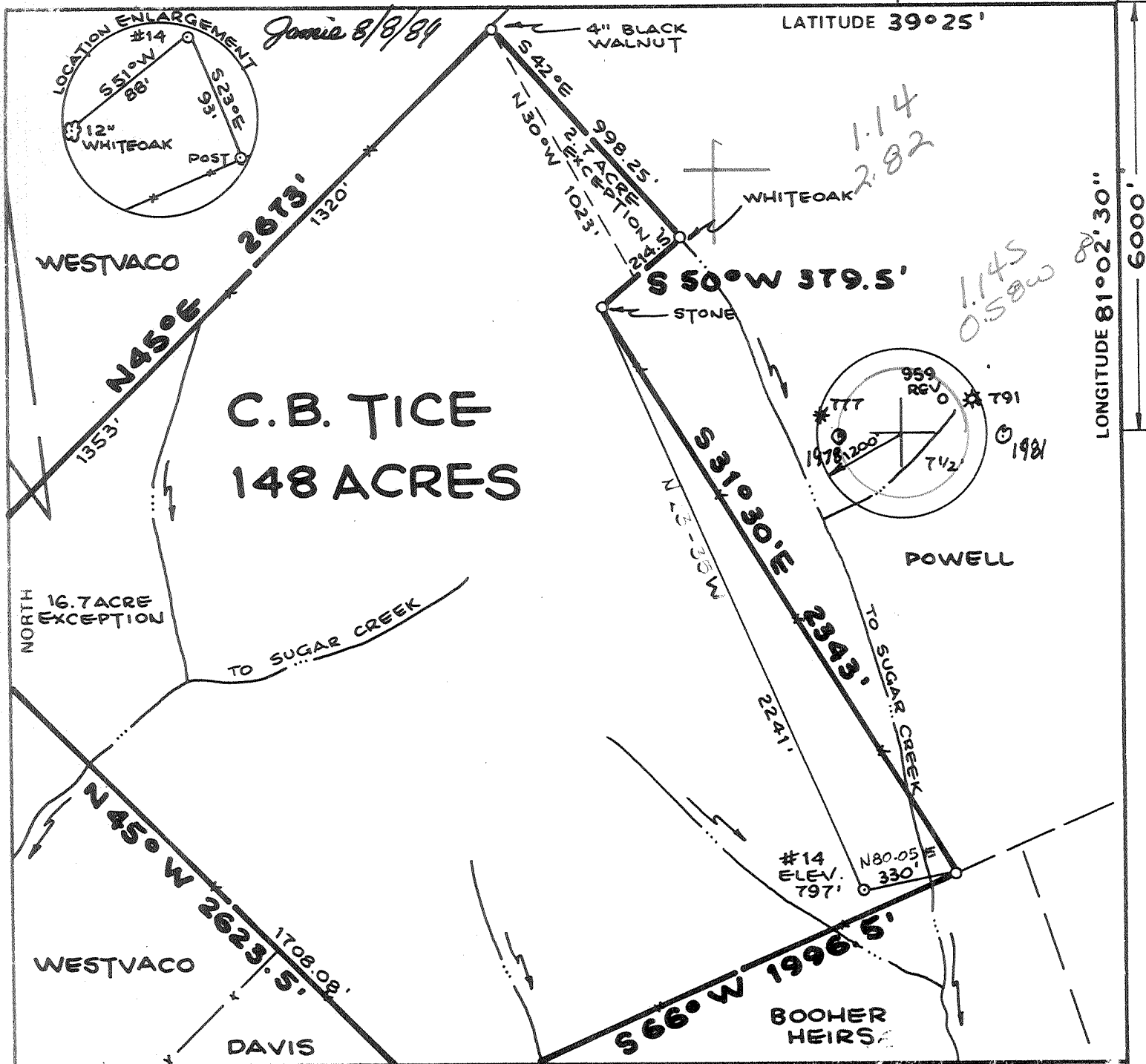
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 6 AUGUST 1985
 OPERATOR'S WELL NO. #14
 API WELL NO. 47-11075-1969-F
 STATE COUNTY PERMIT
 FRAC-Conc.

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 797' WATER SHED SUGAR CREEK
 DISTRICT UNION COUNTY PLEASANTS
 QUADRANGLE BENS RUN 7 1/2' QUAD.
 SURFACE OWNER C.B. TICE ACREAGE 148 1/2
 OIL & GAS ROYALTY OWNER C.B. TICE LEASE ACREAGE 148 1/2
 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 5995'
 WELL OPERATOR AMERICAN PIPELINE DESIGNATED AGENT BERNARD TICE
 ADDRESS 210 SECOND STREET, P.O. BOX C ST. MARYS, W.VA. 26170
 ADDRESS 210 SECOND STREET, P.O. BOX C ST. MARYS, W.VA. 26170

PLEASE 1969



FILE NO. _____
 DRAWING NO. _____
 SCALE **1" = 500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **HIGH POINT ELEV. 1058'**

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 F. Howard*
 R.P.E. _____ L.L.S. **551**

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE **6 AUGUST**, 19 **85**
 OPERATOR'S WELL NO. **#14**
 API WELL NO. _____
47 **UNION** **5** **1969**
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

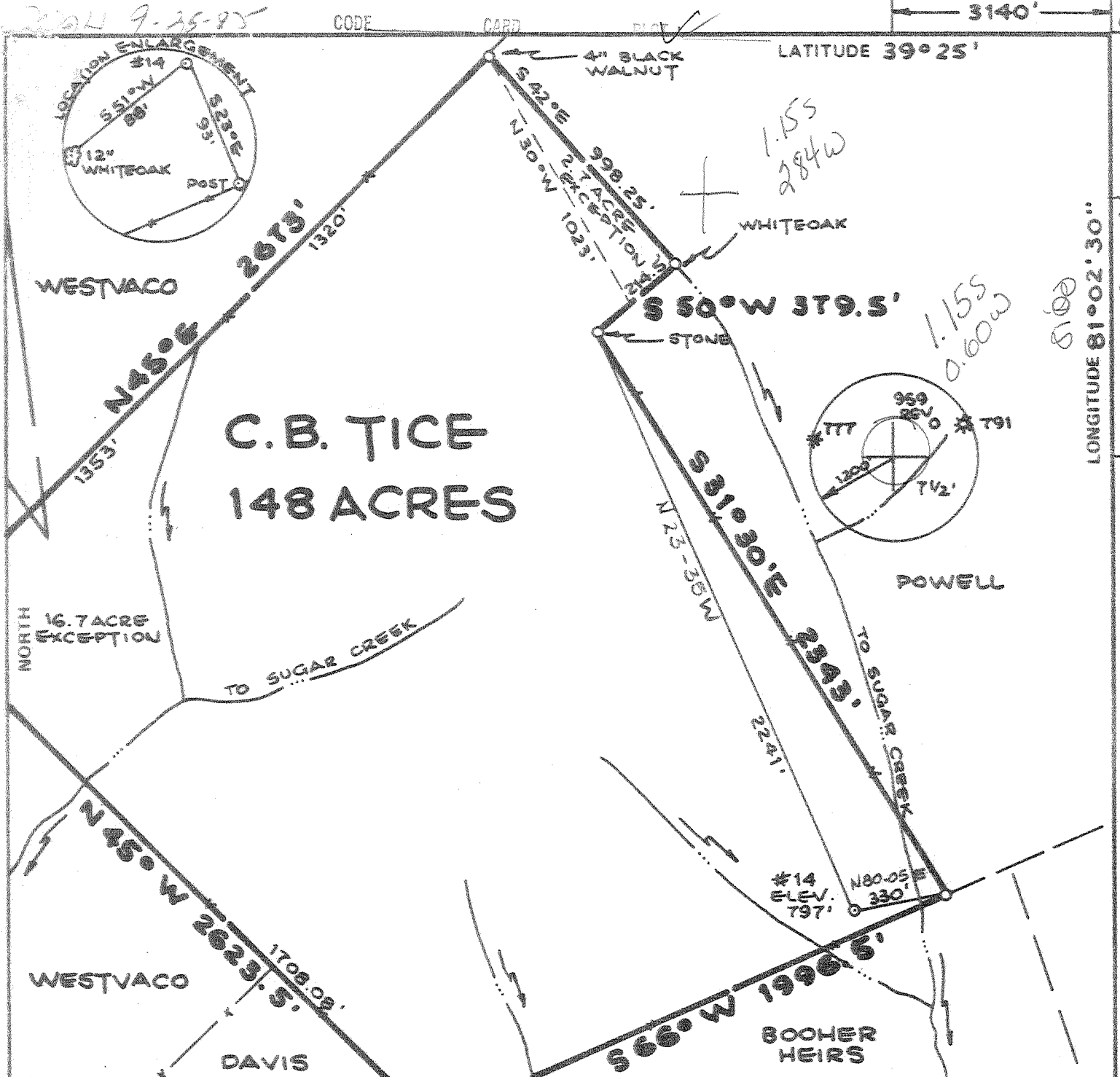
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION **797'** WATER SHED **SUGAR CREEK**
 DISTRICT **UNION 5** COUNTY **PLEASANTS**
 QUADRANGLE **BENS RUN 7 1/2' QUAD.** **241 116 6**
 SURFACE OWNER **C.B. TICE** ACREAGE **148 1/2**
 OIL & GAS ROYALTY OWNER **C.B. TICE** LEASE ACREAGE **148 1/2**

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 **5995'**
 WELL OPERATOR **AMERICAN PIPELINE** DESIGNATED AGENT **BERNARD TICE**
 ADDRESS **210 SECOND STREET, P.O. BOX C** ADDRESS **210 SECOND STREET, P.O. BOX C**
ST. MARYS, W.VA. 26170 **442** **ST. MARYS, W.VA. 26170**

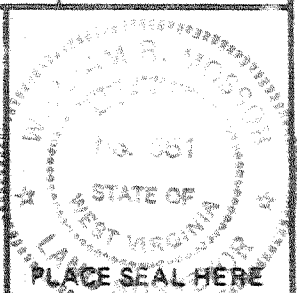
AUG 25 1989

PLEASANTS 1969



FILE NO. _____
 DRAWING NO. _____
 SCALE **1" = 500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **HIGH POINT ELEV. 1058'**

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 **6 AUGUST**, 19 **85**
 OPERATOR'S WELL NO. **#14**
 API WELL NO. _____
47 - **073** - **1969**
 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 **797'** WATER SHED **SUGAR CREEK**
 DISTRICT **UNION 3** COUNTY **PLEASANTS**
 QUADRANGLE **BENS RUN 7 1/2' QUAD. 246 116 EC6**
 SURFACE OWNER **C.B. TICE** ACREAGE **148 1/2**
 OIL & GAS ROYALTY OWNER **C.B. TICE** LEASE ACREAGE **148 1/2**
 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 **5995'**
 WELL OPERATOR **AMERICAN PIPELINE** DESIGNATED AGENT **BERNARD TICE**
 ADDRESS **210 SECOND STREET, P.O. BOX C ST. MARYS, W.VA. 26170** ADDRESS **210 SECOND STREET, P.O. BOX C ST. MARYS, W.VA. 26170**

OCT 15 1985

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 20 Perfs 5395' - 5523' Rhinestreet

Fraced with 750,000 SCF N2

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	80	fresh water
Red Shale			80	215	
Sandstone			215	460	
Gray Shale			460	690	
Shale & Sandstone			690	825	
Red Shale			825	1096	
Sandstone			1096	1150	
Big Injun	Gr & RD		1740	1880	oil & gas
Gordon			2646	2660	oil & gas
Speechley			3650	3800	oil & gas
Benson			4460	4520	gas
Marcellus			5350	5550	gas
Shale			5550	<u>5913 TD</u>	

From nearby wells:

UDM 2250
 W. Huron 3460
 Java 4640
 Anacle 4880
 Rhinestreet 5170
 Sonyea 5660
 Genesee 5830
 Marcellus 5900

(Attach separate sheets as necessary)

American Pipeline & Exploration Company
 Well Operator

By: Bernard Jui

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."



1) Date: Aug. 19, 19 85
 2) Operator's Well No. C.B. Tice #14
 3) API Well No. 47 -073-1969
 State _____ County _____ Permit _____

7/85

RECEIVED
SEP 24 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, 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: 797' Watershed: Sugar Creek
 District: Union 442 County: Pleasants Quadrangle: Bens Run 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: Name Unknown
 Address Middlebourne, WV 26149 Address _____
- 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, Marcellus Shale 441
- 12) Estimated depth of completed well, 5995' feet
- 13) Approximate trata depths: Fresh, 60' feet; salt, N/A 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	11 3/4			X		300'	300'	to surface	<i>log rule 15.05</i>
Fresh water									
Coal									Sizes
Intermediate	8 5/8		24	X		2000'	2000'	1000' fill up	
Production	4 1/2		10.5	X		5995'	5995'	4000' fill up	Depths set
Tubing									
Liners									Perforations: Top _____ Bottom _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1969

September 30 1985
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 September 30, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AB</u>	Plat: <u>MU-MU</u>	Casing <u>116</u>	Fee	WPCP <input checked="" type="checkbox"/>	S&E <input checked="" type="checkbox"/>	Other
---	------------------	--------------------	-------------------	-----	--	---	-------

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.

Issued 8/25/89
 Expires 8/25/91
 073-1969-F

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

- 1) Well Operator: American Pipeline & Exploration 1775' (S) 241
- 2) Operator's Well Number: #14 C.B. Tice 3) Elevation: 797 gl
- 4) Well type: (a) Oil ___ / or Gas XX
 (b) If Gas: Production X / Underground Storage Deep / Shallow XX
- 5) Proposed Target Formation(s): 44 Chemung Group
- 6) Proposed Total Depth: 5913' KB feet
- 7) Approximate fresh water strata depths: 150
- 8) Approximate salt water depths: 1500
- 9) Approximate coal seam depths: none
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XX
- 11) Proposed Well Work:
- 12) Hydro fracture existing well

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 AUG 04 1989
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	<u>11 3/4</u>				<u>255'</u>	<u>120 SKS</u>
Fresh Water	<u>8 5/8"</u>	<u>J55</u>	<u>24#</u>	<u>1926'</u>	<u>1926</u>	<u>surface</u> <u>125 SKS</u>
Coal						
Intermediate						
Production	<u>4 1/2"</u>	<u>J55</u>	<u>10 1/2#</u>	<u>5826'</u>	<u>5826</u>	<u>1658' KB</u> <u>500 SKS</u>
Tubing	<u>none</u>					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

144 20
 \$285
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket sure Agent

Page 1 of _____
Form WW2-A
(09/87)
File Copy

1) Date: August 4, 1989
2) Operator's well number
#14 C.B. Tice
3) API Well No: 47 - 073 - 1969 -FRAC
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Mrs. C. Tice
Address Rt 1 Box 299
St. Marys, West Va. 26170
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Glen Robinson
Address Mineral wells,
West Virginia
Telephone (304)-489-9162

5) (a) Coal Operator:
Name none
Address _____
(b) Coal Owner(s) with Declaration
Name same
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name none
Address _____

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AUG 04 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
_____ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:
XXX Personal Service (Affidavit attached)
_____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator American Pipeline & Exploration
By: Bernard Tice Bernard Tice
Its: President
Address 270 Second Street
St. Marys West Virginia 26170
Telephone (304) 684-7716

Subscribed and sworn before me this 4th day of August, 1989

Daryl G. Gould Notary Public
My commission expires February 11, 1997