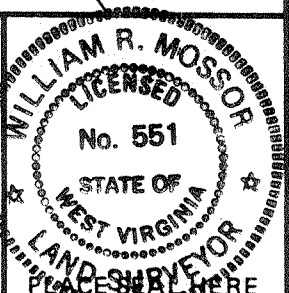


FILE NO. M84-7
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH PT. 1075' 2050' SW OF LOC.

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. Mossor
 R.P.E. _____ L.L.S. 551



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

DATE 21 NOVEMBER 19 85
 OPERATOR'S WELL NO. C.B. TICE #8
 API WELL NO. _____

47 - 073 - 1991-Frac.
 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

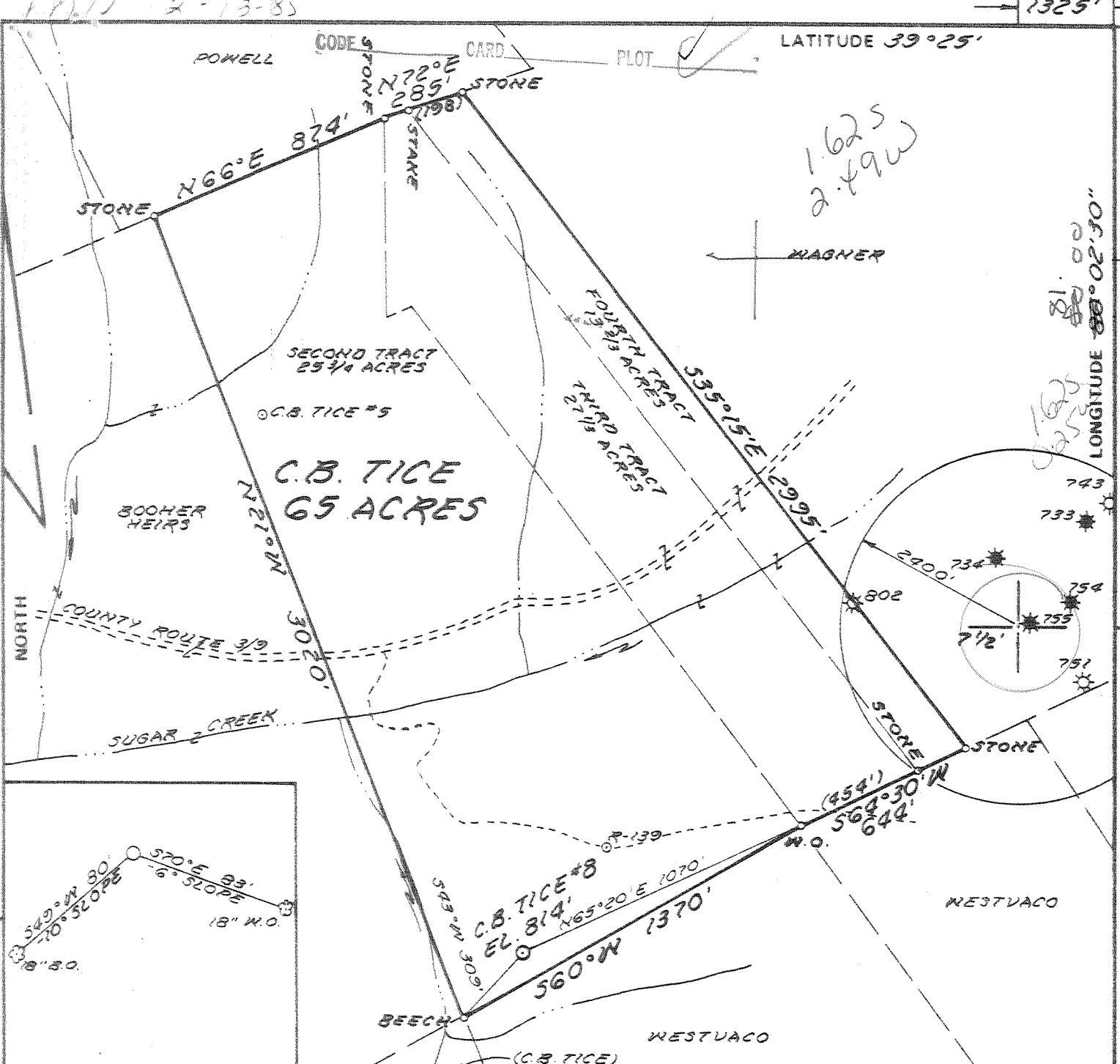
LOCATION: ELEVATION 814' WATER SHED SUGAR CREEK
 DISTRICT LAFAYETTE 3 COUNTY PLEASANTS
 QUADRANGLE BENS RUN 7 1/2' St Marys EC

SURFACE OWNER C.B. TICE ACREAGE 65
 OIL & GAS ROYALTY OWNER C.B. TICE LEASE ACREAGE 65
 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) _____

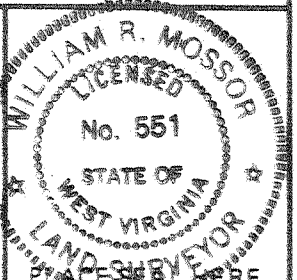
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION 816 INJUN ESTIMATED DEPTH 2200'
 WELL OPERATOR AMERICAN PIPELINE DESIGNATED AGENT BERNARD TICE
 ADDRESS 210 SECOND ST., P.O. BOX 730 ST. MARYS, WV 26170 ADDRESS 210 SECOND ST., P.O. BOX 730 ST. MARYS, WV 26170

APR 20 1997
 Temp. Plug Back
 Free



FILE NO. MB4-7
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH PT. 1075' 2050' SW OF LOC.

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. Mossor
 R.P.E. _____ L.L.S. 551



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



DATE 21 NOVEMBER 19 85
 OPERATOR'S WELL NO. C.B. TICE #8
 API WELL NO. _____
47 - 073 - 1991
 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 814' WATER SHED SUGAR CREEK
 DISTRICT LAFAYETTE 3 COUNTY PLEASANTS
 QUADRANGLE BENS RUN 7 1/2 241 N6 E 4 St. Marys EC
 SURFACE OWNER C.B. TICE ACREAGE 65
 OIL & GAS ROYALTY OWNER C.B. TICE LEASE ACREAGE 65
 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 BIG INJUN ESTIMATED DEPTH 2200'
 WELL OPERATOR AMERICAN PIPELINE DESIGNATED AGENT BERNARD TICE
 ADDRESS 210 SECOND ST., P.O. BOX C ST. MARYS, WV 26170 ADDRESS 210 SECOND ST., P.O. BOX C ST. MARYS, WV 26170

DEC 20 1985

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MAY - 5 1986



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date April 28, 1986
Operator's Well No. C.B. Tice #8
Farm C.B. Tice
API No. 47 - 073 - 1991

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal /
(If "Gas," Production XX / Underground Storage / Deep / Shallow XX)

LOCATION: Elevation: 814' Watershed Sugar Creek
District: Lafayette County Pleasants Quadrangle Bens Run 7 1/2'

COMPANY American Pipeline & Exploration Company

ADDRESS 210 2nd St., St. Marys, WV 26170

DESIGNATED AGENT Bernard Tice

ADDRESS 210 2nd St., St. Marys, WV 26170

SURFACE OWNER C.B. Tice

ADDRESS St. Marys, WV 26170

MINERAL RIGHTS OWNER C.B. Tice

ADDRESS St. Marys, WV 26170

OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther

ADDRESS Middlebourne, WV 26149

PERMIT ISSUED 12-13-85

DRILLING COMMENCED 12-22-85

DRILLING COMPLETED 12-24-85

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 | | | |
| 7 | 287 | 287 | 50 sks |
| 5 1/2 | | | |
| 4 1/2 | 1972 | 1972 | 50 sks |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Big Injun Depth 2000 feet

Depth of completed well 2020 feet Rotary XX / Cable Tools

Water strata depth: Fresh 65 feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1794 - 1850 feet

Gas: Initial open flow 80 Mcf/d Oil: Initial open flow 8 Bbl/d
Final open flow 80 Mcf/d Final open flow 8 Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 480 psig (surface measurement) after 24 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

MAY 12 1986
(Continue on reverse side)

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

18 Perfs 1794' - 1850'

Fraced with 810 bbls. H2O 20,000 lbs. 20/40 Sand

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS |
|------------------|-------|--------------|----------|----------------|--|
| | | | | | Including indication of all fres and salt water, coal, oil and ga |
| Shale | | | 0 | 70 | fresh water |
| Red Shale | | | 70 | 260 | |
| Gray Shale | | | 260 | 410 | |
| Red & Gray Shale | | | 410 | 660 | |
| Gray Shale | | | 660 | 720 | |
| Red Shale | | | 720 | 816 | |
| Cow Run | | | 816 | 835 | |
| Big Lime | | | 1630 | 1740 | |
| Big Injun | | | 1760 | 1922 | |
| Shale | | | 1922 | <u>2020 TD</u> | |

(Attach separate sheets as necessary)

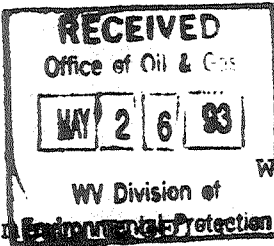
American Pipeline & Exploration Company
Well Operator

By:

Bernard J. [Signature]

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."



State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: Environmental Protection

Operator Well No.: TICE 8

LOCATION: Elevation: 814.00 Quadrangle: BENS RUN

District: LAFAYETTE County: PLEASANTS
Latitude: 8470 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude: 1325 Feet West of 80 Deg. 2 Min. 30 Sec.

Company: AMERICAN PIPELINE & EXPLO.
210 SECOND ST. P.O. BOX 730
ST. MARYS, WV 26170-0730

Agent: BERNARD TICE

Inspector: SAMUEL HERSMAN
Permit Issued: 04/24/91
Well work Commenced: 5/13/91
Well work Completed: 5/16/91
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) _____
Fresh water depths (ft) 65
Salt water depths (ft) 1390
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 7" | 287 | 287 | 50SKS |
| 4 1/2" | 1972 | 1972 | 50SKS |
| | | | |
| | | | |

OPEN FLOW DATA

Producing formation Maxon Pay zone depth (ft) 1650-1678
 Gas: Initial open flow 100 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 100 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 48 Hours
 Static rock Pressure 390 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

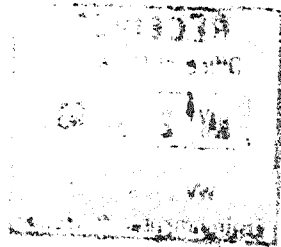
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: AMERICAN PIPELINE & EXPLORATION CO.

Reviewed JMG
Recorded _____

By: Bernard Tice
Date: 5-18-93

JUN 4 1993



Set Plug at 1702

Perf - 1650 to 1678 - 9 Perfs

Acid Job with 500 gal acid.

RECEIVED
DEC 10 1985



1) Date: Dec. 9, 1985

2) Operator's Well No. C.B. Tice #8

3) API Well No. 47-073-1991
State _____ County _____ Permit _____

STATE OF WEST VIRGINIA

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

- 4) WELL TYPE: A Oil XX / Gas XX /
B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 814' Watershed: Sugar Creek
District: Lafayette 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 2nd Street
210 2nd St., St. Marys, WV 26170 St. Marys, WV 26170
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
Address Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: 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, Big Injun 371
- 12) Estimated depth of completed well, 2500 feet
- 13) Approximate strata depths: Fresh, 30 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 | | | | | | | | | Kinds |
| Fresh water | 7" | | 17 | X | | 300' | 300' | to surface | <i>By rule 15.05</i> |
| Coal | | | | | | | | | Sizes |
| Intermediate | | | | | | | | | Depths set |
| Production | 4 3/8" | | 9.5 | X | | 2500' | 2500' | 1000' fill | |
| Tubing | | | | | | | | | Perforations: |
| Lin... | | | | | | | | | Top Bottom |

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1991

December 13 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 December 13, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

| | | | | | | | |
|-------|------------|-----------|-----------|------------|-----------|-----------|-------|
| Bond: | Agent: | Plat: | Casing | Fee | WPCP | S&E | Other |
| | <i>RLB</i> | <i>MU</i> | <i>MU</i> | <i>455</i> | <i>MU</i> | <i>MU</i> | |

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.

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

- 1) Well Operator: American Pipeline & Exploration Co. 1775 (3) 241
- 2) Operator's Well Number: C.B. Tice #8 3) Elevation: 814'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Maxton
- 6) Proposed Total Depth: 2020 feet
- 7) Approximate fresh water strata depths: 60'
- 8) Approximate salt water depths: 1130'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Stimulate Existing Well
- 12) Temporary Set Bridge Plug, PBTD: 1700'

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|--------------|---------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | | | | | | |
| Fresh Water | 7" | | | 290' | 287' | Surface |
| Coal | | | | | | |
| Intermediate | | | | | | |
| Production | 4.5" | J-55 | 9.50# | 2020' | 1972' | 50SX |
| Tubing | | | | | | |
| Liners | | | | | | |

OK [Signature] from Well Record

RECEIVED

Division of Energy

APR 03 91

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

1818
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond [Signature] Agent
(Type)

12079

1) Date: March 27, 1991
2) Operator's well number
C.B. Tice #8
3) API Well No: 47 - 073 - 1991 F
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

APR 03 91

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Bernard Tice</u> Address <u>P.O. Box 730</u> <u>St. Marys, WV 26170</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____ Address _____</p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p> |
| <p>6) Inspector <u>Sam Hersman</u> Address <u>Rt. 1, Box 240</u> <u>Harrisville, WV 26362</u> Telephone (304)-<u>628-3185</u></p> | |

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
x 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:
_____ 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 Co.
By: Bernard Tice
Its: President
Address P.O. Box 730
St. Marys, WV 26170
Telephone 684-2641

Subscribed and sworn before me this 27 day of March, 1991

Dolly Shingleton Notary Public
My commission expires August 4, 1992