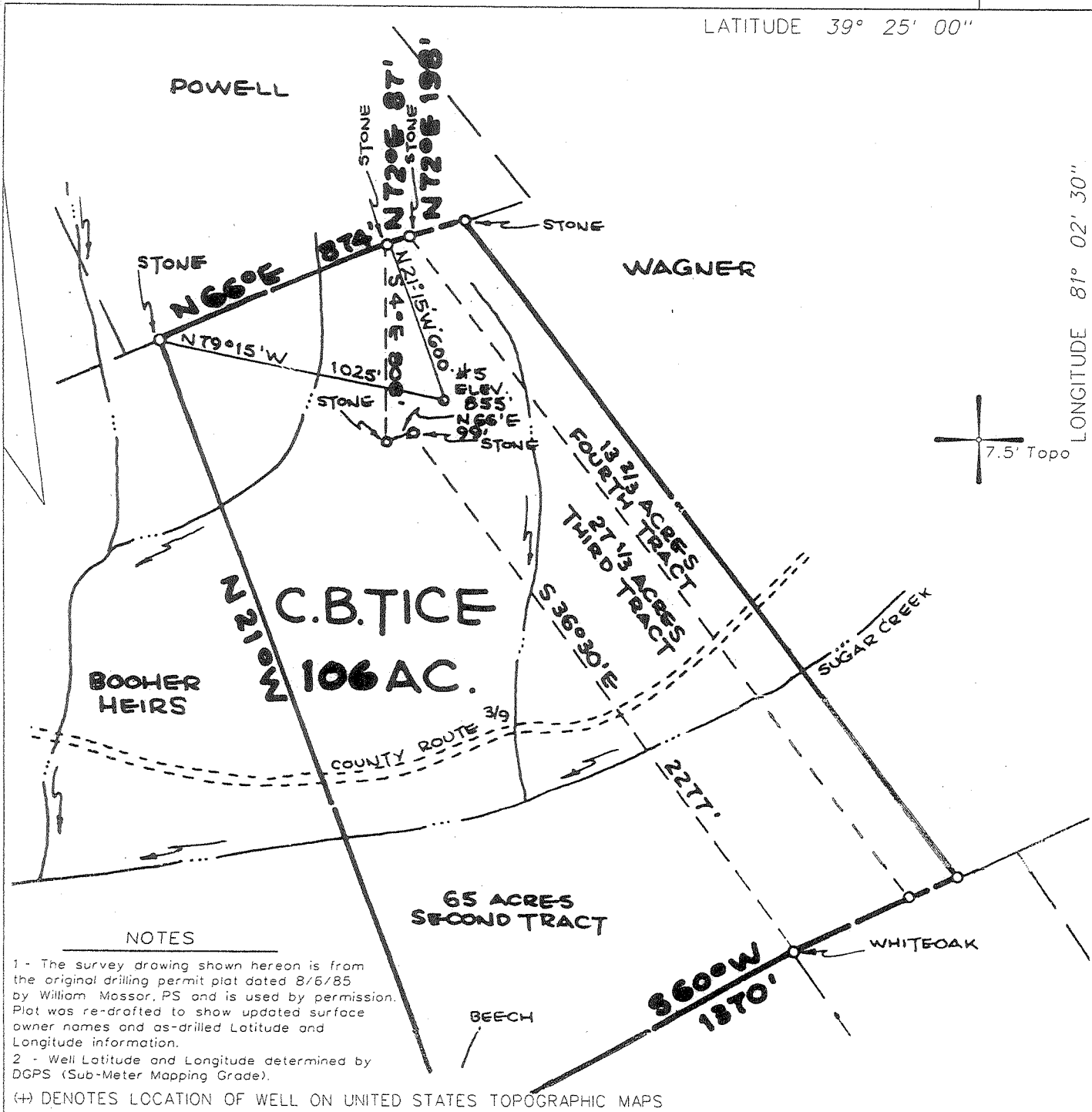


Longitude - 81° 02' 50.9" | 1,650'

LATITUDE 39° 25' 00"



LONGITUDE 81° 02' 30"

6,150'

Latitude - 39° 23' 59.2"



NOTES

1 - The survey drawing shown hereon is from the original drilling permit plat dated 8/6/85 by William Mossor, PS and is used by permission. Plat was re-drafted to show updated surface owner names and as-drilled Latitude and Longitude information.

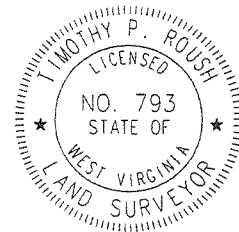
2 - Well Latitude and Longitude determined by DGPS (Sub-Meter Mapping Grade).

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

FILE NO. 114-15
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION WVDEP Records
(Original Survey)

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]
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304



DATE October 23, 2007
 FARM C.B. Tice No.5
 API WELL NO. 47-073-01981W

WO → CANCELLED

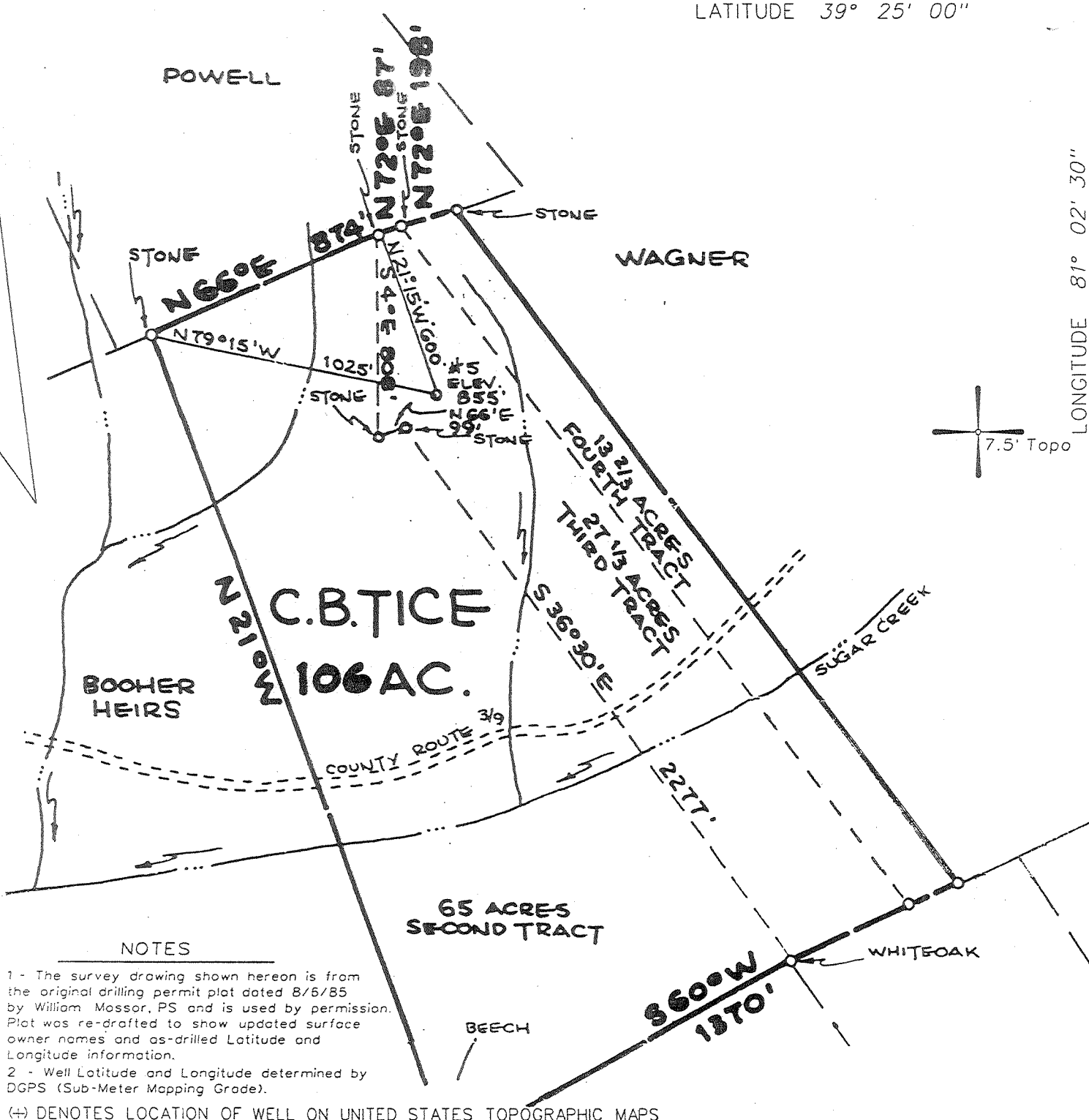
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 855' WATERSHED Sugar Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Ben's Run 7.5'

SURFACE OWNER Mark Bartrug ACREAGE 106 Ac.
 OIL & GAS ROYALTY OWNER C.B. Tice LEASE ACREAGE 106 Ac.
 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/Maxton ESTIMATED DEPTH 1,792'
 WELL OPERATOR Ecological Energy Inc. DESIGNATED AGENT John Witt
 ADDRESS Route 39, Box 89 ADDRESS P.O. Box 893
St. Marys, WV 26170 Morgantown, WV 26507

DEC 11 2009



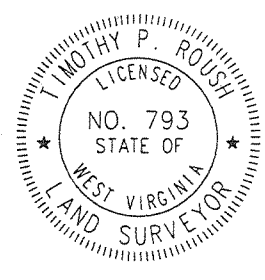
NOTES

1 - The survey drawing shown hereon is from the original drilling permit plat dated 8/6/85 by William Mossor, PS and is used by permission. Plat was re-drafted to show updated surface owner names and as-drilled Latitude and Longitude information.
 2 - Well Latitude and Longitude determined by DGPS (Sub-Meter Mapping Grade).

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

FILE NO. 114-15
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION WVDEP Records
 (Original Survey)

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]
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304



DATE October 23, 2007
 FARM C.B. Tice No.5
 API WELL NO. 47-073-01981W

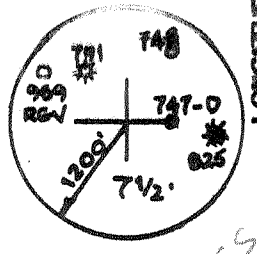
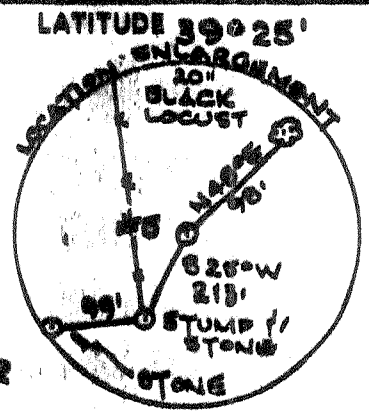
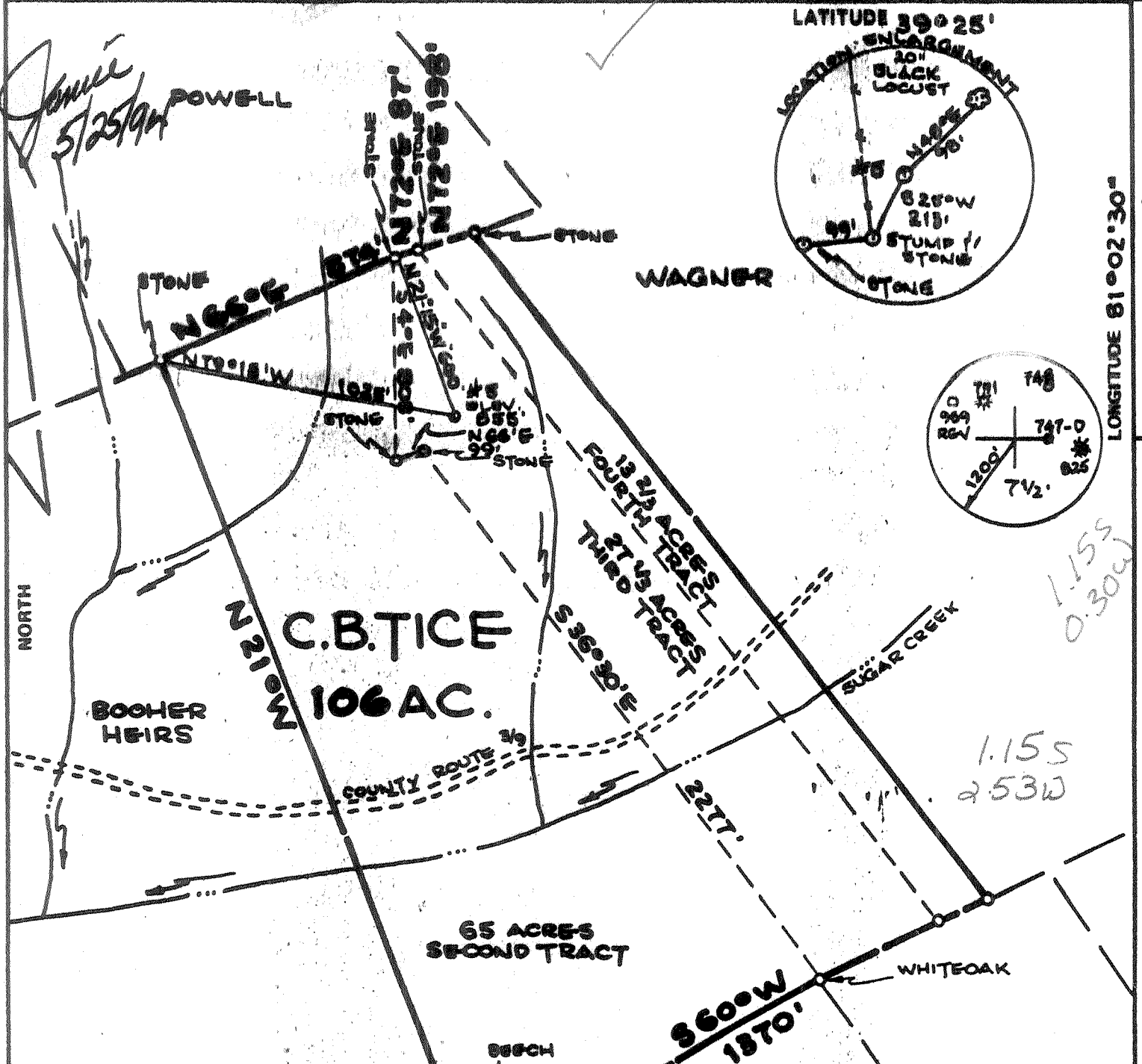
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 855' WATERSHED Sugar Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Ben's Run 7.5'
 SURFACE OWNER Mark Bartrug ACREAGE 106 Ac.
 OIL & GAS ROYALTY OWNER C.B. Tice LEASE ACREAGE 106 Ac.
 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/Maxton ESTIMATED DEPTH 1,792'
 WELL OPERATOR Ecological Energy Inc. DESIGNATED AGENT John Witt
 ADDRESS Route 39, Box 89 ADDRESS P.O. Box 893
St. Marys, WV 26170 Morgantown, WV 26507

JAN 18 2008

P/E 19/11W

1711-80-15

1660



LONGITUDE 81° 02' 30"

6160'

1.155
0.300

1.155
253W

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. Hesser*
 R.P.E. _____ L.L.S. **551**

WILLIAM R. HESSER
 REGISTERED SURVEYOR
 No. 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. **#5**
 API WELL NO. _____
47 - 073 - 1981- Fee
 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 **855'** WATER SHED **SUGAR CREEK**
 DISTRICT **UNION** COUNTY **PLEASANTS**
 QUADRANGLE **BENS RUN 7 1/2' QUAD. St. Marys 157 EC**
 SURFACE OWNER **C.B. TICE** ACREAGE **106**
 OIL & GAS ROYALTY OWNER **C.B. TICE** LEASE ACREAGE **106**

Permanent Plug Back New formation

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW _____
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

MAY 27 1994

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION _____ ESTIMATED DEPTH **3000'** *4008 New 3150*

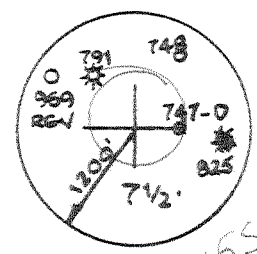
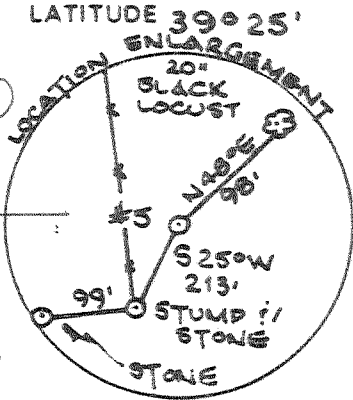
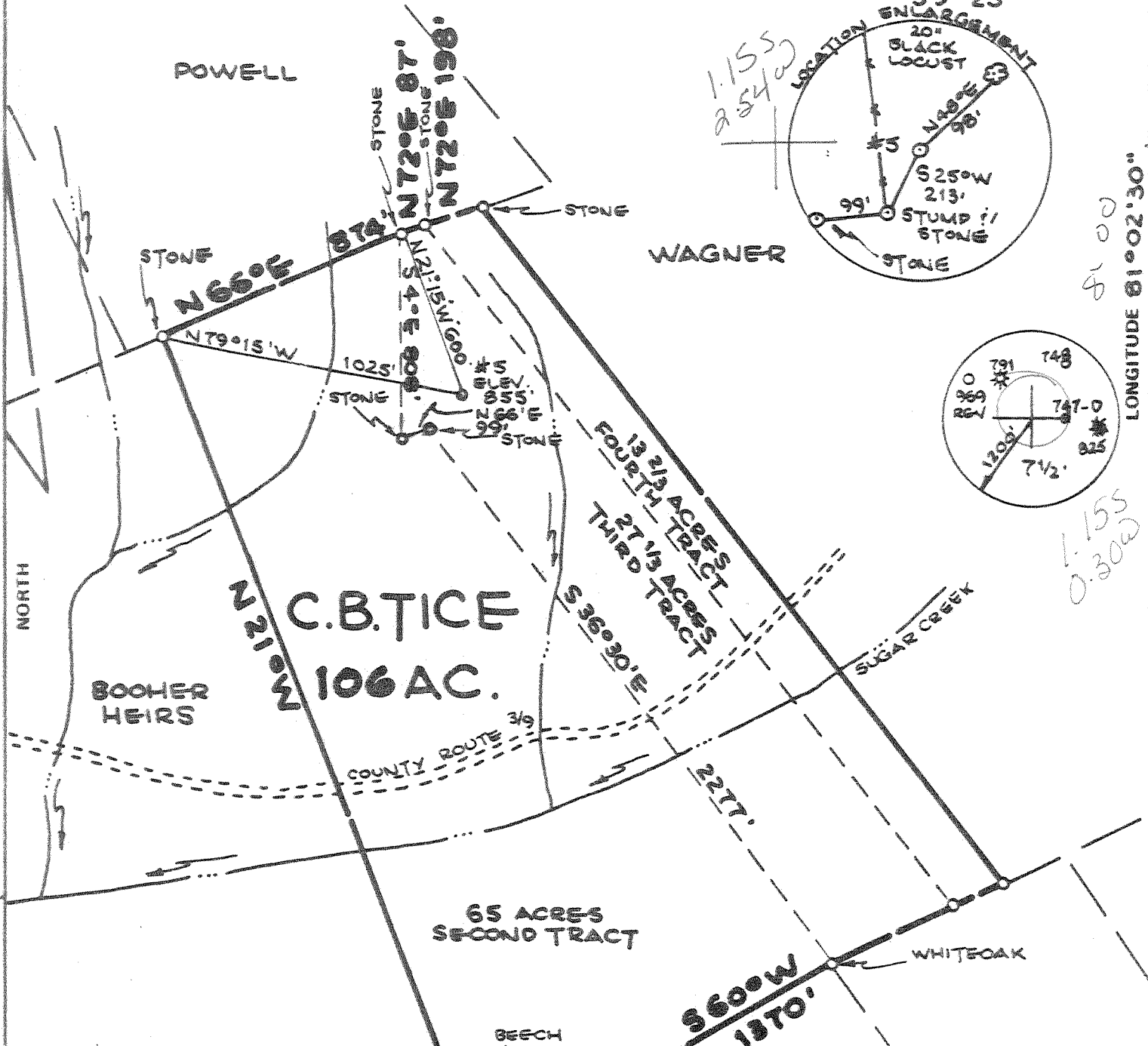
WELL OPERATOR: Ecological Energy, Inc. 5645
 ADDRESS: P.O. Box 730 St. Marys, wVa. 26170-0730
 DESIGNATED AGENT: Bernard Tice
 ADDRESS: Same Address
 PH: 304-684-2641

PLEASE 198

M.N. 11-2085

CODE _____ CARD _____ PLOT _____

1660'



LATITUDE 39° 25'
LONGITUDE 81° 02' 30"

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 A. Hesser*
 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. **#5**
 API WELL NO. _____
47 - **073** - **1981**
 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 **855'** WATER SHED **SUGAR CREEK**
 DISTRICT **UNION 5** COUNTY **PLEASANTS**
 QUADRANGLE **BENS RUN 7 1/2' QUAD 241** **116 EC**
 SURFACE OWNER **C.B. TICE** ACREAGE **106**
 OIL & GAS ROYALTY OWNER **C.B. TICE** LEASE ACREAGE **106**
 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 **GORDON** ESTIMATED DEPTH **3000'**
 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**

Plug-Back-Free

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Environmental Protection

FEB 06 1995

Well Operator's Report of Well Work

Permitting
Office of Oil & Gas
Farm Name: Gas

TICE, C.B.

Operator Well No.: C.B. TICE #5

LOCATION: Elevation: 855.00 Quadrangle: BENS RUN

District: County: PLEASANTS
Latitude: 6160 Feet South of 39 Deg. 25Min. Sec.
Longitude 1660 Feet West of 81 Deg. 2 Min. 30 Sec.

Company: ECOLOGICAL ENERGY, INC.
P. O. BOX 730
ST. MARYS, WV 26170-0000

Agent:

Inspector: SAM HERSMAN
Permit Issued: 05/25/94
Well work Commenced: 5/16/94 ?
Well work Completed: 5/18/94 0
Verbal Plugging
Permission granted on: 5/16/94 ?
Rotary Cable Rig
Total Depth (feet)
Fresh water depths (ft) 130
Salt water depths (ft)

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8 9/8	1011	1011	260 SKS
4 1/2	3984	3984	415 SKS

Is coal being mined in area (Y/N)? N
Coal Depths (ft):

OPEN FLOW DATA

Producing formation 5 shale Pay zone depth (ft) 2676
Gas: Initial open flow 500 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 248 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 550 psig (surface pressure) after 24 Hours

Second producing formation NA 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: ECOLOGICAL ENERGY, INC.

By: [Signature]
Date: 5/16/94

Prof

2678 to 2692 - 8 - .39 holes

2735 to 2776 - 8 - .39 holes

2957 to 3090 - 10 - .39 holes

3161 to 3371 - 14 - .39 holes

3513 to 3586 6 - .39 holes

Proc - 2,000,000 SCF/N₂

Plug -
Set solid plug at 3650

WR-35

RECEIVED
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 #5
Farm C.B. Tice
API No. 47 - 073 - 1981

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: 855' Watershed Sugar Creek
District: Union 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 11-20-85

DRILLING COMMENCED 12-04-85

DRILLING COMPLETED 12-08-85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1011	1011	260 sks
7			
5 1/2			
4 1/2	3984	3984	415 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Speechley & Balltown Depth 4000 feet
Depth of completed well 4008 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 55 feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Balltown Speechley Pay zone depth 3706 - 3798 feet

Gas: Initial open flow 400 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 400 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 1080 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)

MAY 12 1986

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

17 Perfs 3706' - 3798' *Hydr*
 Fraced with 720,000 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	130	fresh water
Gray Shale			130	360	
Red Shale			360	415	
Red & Gray Shale			415	650	
Gray Shale			650	790	
Red Shale			790	855	
Cow Run			855	870	oil
Big Injun	<i>Grey + PP</i>		1770	1920	oil & gas
Gordon			2684	2700	oil & gas
Fifth Sand			2958	2970	
Speechley			3620	3810	
Shale			3810	<u>4008 TD</u>	

From nearby wells:
 USU ^{top} 2244
 Plum 3494

(Attach separate sheets as necessary)

American Pipeline & Exploration Company
 Well Operator

By: Bernard Tei
 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: Nov. 11, 1985

2) Operator's Well No. C.B. Tice #5

3) API Well No. 47 -073-1981
State County Permit

RECEIVED
NOV 20 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DIVISION OF OIL & GAS
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 _____)
- 5) LOCATION: Elevation: 855' 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 2nd 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, Gordon 419
- 12) Estimated depth of completed well, 3000 feet
- 13) Approximate trata depths: Fresh, 40 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									
Fresh water	<u>8 5/8</u>		<u>23</u>	<u>X</u>		<u>900'</u>	<u>900'</u>	<u>to surface</u>	<u>by rule 15.05</u>
Coal									
Intermediate									
Production	<u>4 1/2</u>		<u>10.5</u>	<u>X</u>		<u>3000'</u>	<u>3000'</u>	<u>1200' fill up</u>	<u>to cover top of salt sands</u>
Tubing									<u>(as required by rule 15.01)</u>
Lin...									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1981

November 20 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 November 20, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>FLB</u>	<u>mx</u>	<u>mx</u>	<u>310</u>	<u>mx</u>	<u>mx</u>	

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

[Signature]
Director, Division of Oil and Gas

File