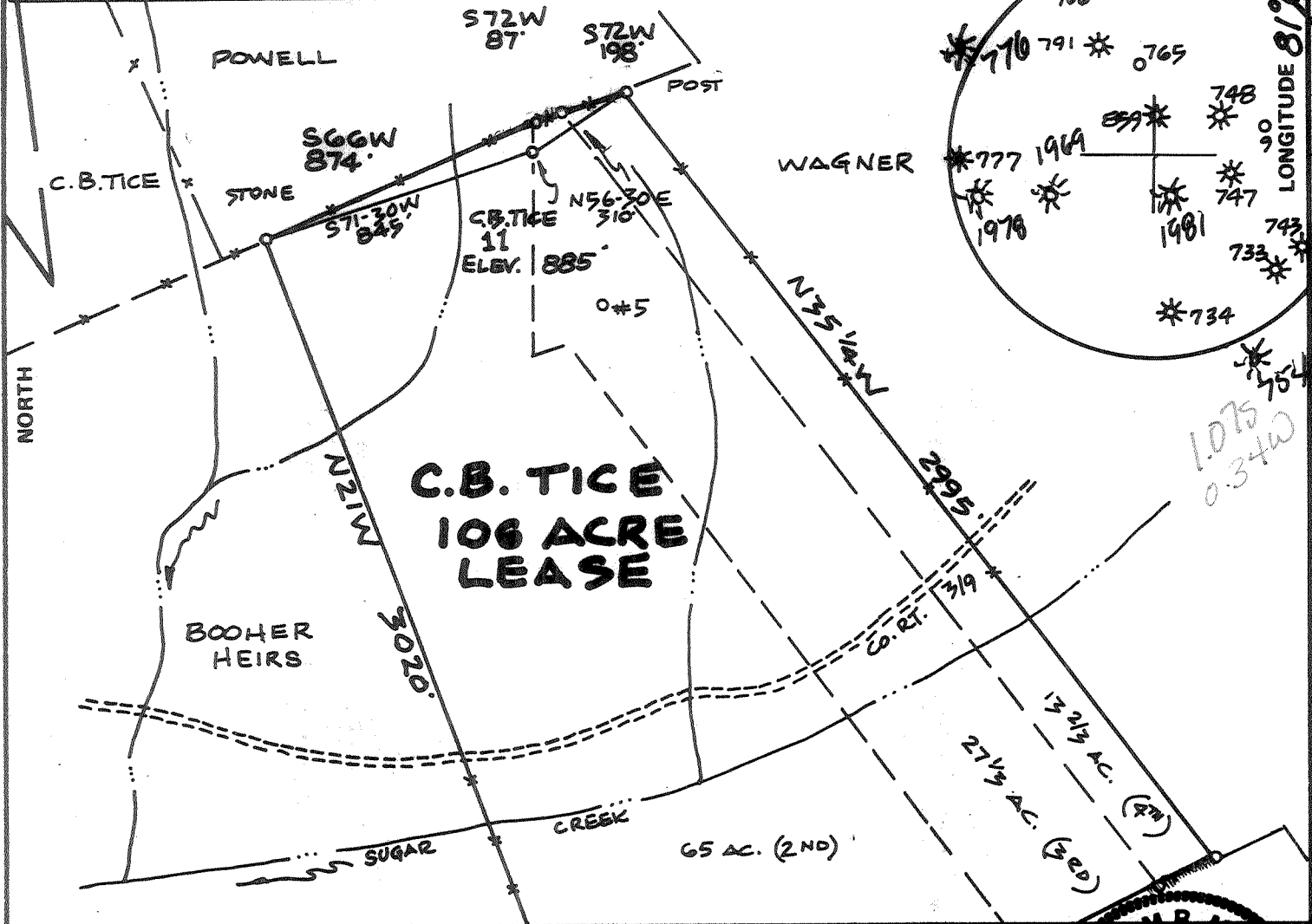
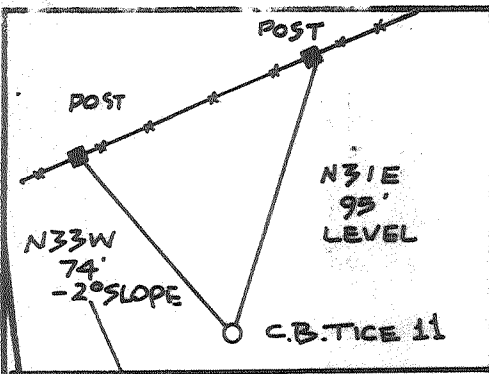


LATITUDE 39° 25'

1890

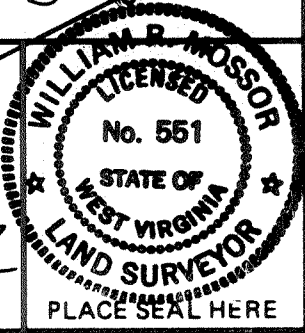
*Jamie*  
11/18/97



**C.B. TICE  
106 ACRE  
LEASE**

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION HIGH POINT 1056'

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



WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506  
 (8-78)



DATE 10 DECEMBER, 19 85  
 OPERATOR'S WELL NO. C.B. TICE 11  
 API WELL NO. \_\_\_\_\_  
47 - 073 - 01994-F  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 885 WATER SHED SUGAR CREEK  
 DISTRICT UNION COUNTY PLEASANTS  
 QUADRANGLE BENS RUN  
 SURFACE OWNER C. B. TICE ACREAGE 27 1/3  
 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) Squeeze of Maxton Frac  
Well drilled in 1985 by American Pipeline Co. Production from Big Injun  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2500' 2018'  
 DESIGNATED AGENT BERNARD TICE  
 ADDRESS 210 SECOND ST, PO BOX C 1997  
ST. MARYS, W.VA. 26170  
comple

Ecological Energy, Inc.  
 Box 893  
 Morgantown, Wva. 26507-0893



WR-35

17-Nov-97  
API # 47- 73-01994 F

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

Well Operator's Report of Well Work

Farm name: TICE, C.B./MARK BARTRUG Operator Well No.: C.B. TICE #11

LOCATION: Elevation: 885.00 Quadrangle: BENS RUN

District: UNION County: PLEASANTS  
Latitude: 5670 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 1890 Feet West of 81 Deg. 2 Min. 30 Sec.

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

Agent: BERNARD TICE

Inspector: SAM HERSMAN  
Permit Issued: 11/18/97  
Well work Commenced: 1/16/98  
Well work Completed: 2/14/98  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	292'	292'	50 SKS.
4 1/2"		2018'	60 SKS.

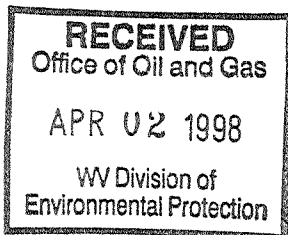
EXISTING

OPEN FLOW DATA

Producing formation Maxon Pay zone depth (ft) 1640'  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 20 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 400 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: ECOLOGICAL ENERGY, INC.

By: A.D. Sabatino Consultant  
Date: 2/18/98

OVER →

APR 7 1998

PLE 1994 F

Temporary Bridge Plug: 4 1/2" Solid Bridge Plug set at 1724'

Perforated Interval: (1644' - 52') 12 holes, .041"

Fracturing treatment: 500 gals. 7 1/2% HCL. acid, 357 BBLS treated water, Breakdown  
Press.: 2800#, Avg. rate: 10.73 BPM., Avg. press:  
2200#, 25000 Lbs. 20/40 sand, ISIP. 1300#.

See original IV-35 State Report for additional formation information and flow data.



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

12 Perfs 1933' - 1947'

Fraced with 775 bbls. H2O, 20,000 lbs. 20/40 Sand

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	260	
Gray Shale			260	410	
Shale & Sandstone			410	690	
Red & Gray Shale			690	785	
Red Shale			785	890	
Cow Run			890	910	
Big Lime			1760	1768	
<u>Big Injun Gen. + ss</u>			1815	1964	oil & gas
Shale			1964	<u>2040 TD</u>	

(Attach separate sheets as necessary)

American Pipeline & Exploration Company

Well Operator

By: Bernard Liu

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 perforations, encountered in the drilling of a well."

7/85

**RECEIVED**  
DEC 13 1985



1) Date: Dec. 11, 19 85  
2) Operator's Well No. C.B. Tice #11  
3) API Well No. 47-073-1994  
State County Permit

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 XX /)
- 5) LOCATION: Elevation: 885' Watershed: Sugar Creek  
District: Union 442 County: Pleasants Quadrangle: Bens Run
- 6) WELL OPERATOR American Pipeline CODE: 1775 7) DESIGNATED AGENT Bernard Tice  
Address & Exploration Company 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, 45 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	By rule 15.05
Coal									Sizes
Intermediate									
Production	4 1/2"		9.5	X		2500'	2500'	1000' fill	to cover salt sands
Tubing									Perforations:
Line									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-073-1994

December 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 December 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>A-B</u>	<u>ML</u>	<u>ML</u>	<u>493</u>	<u>ML</u>	<u>ML</u>	

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

[Signature]  
Director, Division of Oil and Gas

File

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

24621

Well Operator: Ecological Energy, Inc. <sup>5645</sup> 15240 <sup>(3)</sup> 241

Operator's Well Number: C. B. Tice #11 3) Elevation: 885'

RECEIVED  
WV Division of Environmental Protection  
(a) Oil \_\_\_ / or Gas <sup>X</sup> / *Issued 11/18/97*

NOV 17 1997 (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow <sup>X</sup> /

5) <sup>Permitting</sup> <sup>Office of Oil & Gas</sup> Proposed Gas Target Formation(s): Maxon 325

6) Proposed Total Depth: 1640' feet

7) Approximate fresh water strata depths: \_\_\_\_\_

8) Approximate salt water depths: \_\_\_\_\_

9) Approximate coal seam depths: \_\_\_\_\_

10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No \_\_\_ /

11) Proposed Well Work: Set temporary plug, frac maxon sand, remove plug commingle with original production

12) \_\_\_\_\_

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water						
Coal						
Intermediate	7"			292'	292'	50 SKS.
Production	4 1/2"				2018'	60 Sks.
Tubing						
Liners						

*Existing from Well Records*

*Spencer job*  
EXISTING

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

1944/37  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent  
(Type)



**RECEIVED**  
WV Division of  
Environmental Protection  
NOV 17 1997

Permitting  
Office of Oil & Gas

1) Date: 9/17/97  
2) Operator's well number  
C.B. TICE #11  
3) API Well No: 47 - 73 - 1994 - F  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name C. B. Tice MARK BARTUNG Name N/A  
Address St. Marys, W. VA. 26170 Address \_\_\_\_\_
- (b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_ Name N/A  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_
- 6) Inspector Sam Hersman (c) Coal Lessee with Declaration  
Address Rt. 1 Box 248 Name N/A  
Harrisville, W. Va. Address \_\_\_\_\_  
Telephone (304)- 628-3185

**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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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:

- X   Personal Service (Affidavit attached)  
       Certified Mail (Postmarked postal receipt attached)  
       Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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.

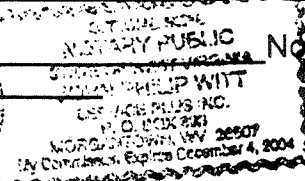
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ecological Energy, Inc  
By: David E. Loxtercamp  
Its: President  
Address Box 893  
Morgantown, W. Va. 26507  
Telephone 1-800-846-7587

Subscribed and sworn before me this 13 day of Nov 1997

My commission expires \_\_\_\_\_

*[Signature]*  
*[Signature]*



Notary Public