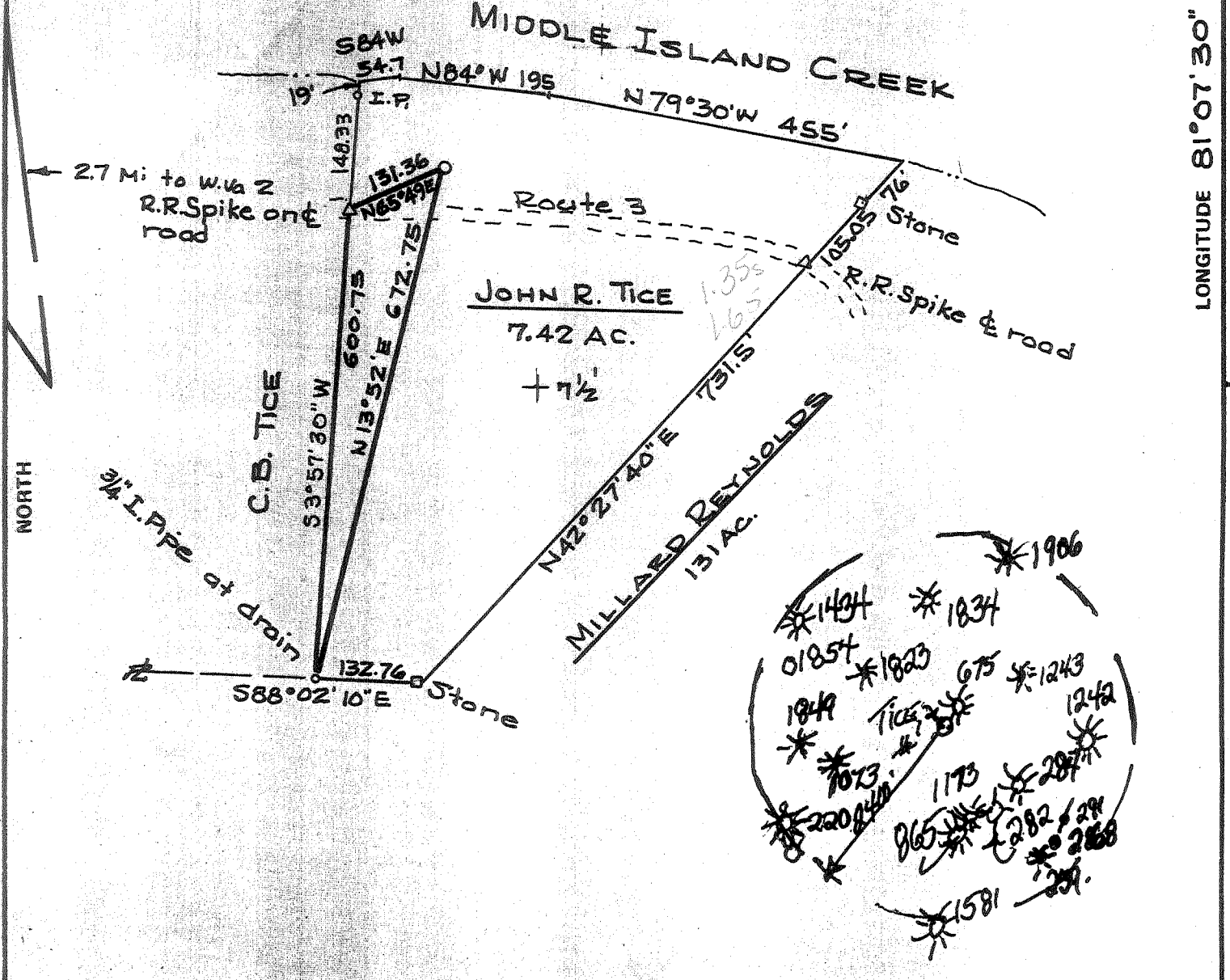


*Janice  
10/10/96*

8750'

LATITUDE 39° 25'

LONGITUDE 81° 07' 30"



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=200'  
MINIMUM DEGREE OF ACCURACY 1:5000  
PROVEN SOURCE OF ELEVATION E of Route 3, 1500'  
S.E of Well: USGS Map E1. 622

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) Kenneth Powell  
R.P.E. \_\_\_\_\_ L.L.S. 369

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
NITRO, WEST VIRGINIA 25143



DATE Aug 23, 1980  
OPERATOR'S WELL NO. J. TICE #1  
API WELL NO. \_\_\_\_\_  
47 - 073 - 010667  
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 615 WATER SHED MIDDLE ISLAND CREEK  
DISTRICT MS KIM COUNTY PLEASANTS  
QUADRANGLE RAVEN ROCK, OHIO - W.VA  
SURFACE OWNER JOHN R. TICE ACREAGE 7.42  
OIL & GAS ROYALTY OWNER John R. TICE LEASE ACREAGE 7.42  
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) \_\_\_\_\_  
It temporary plug has been used to not plug complete with original production  
PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION OHIO SHALE ESTIMATED DEPTH 3900' ±

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

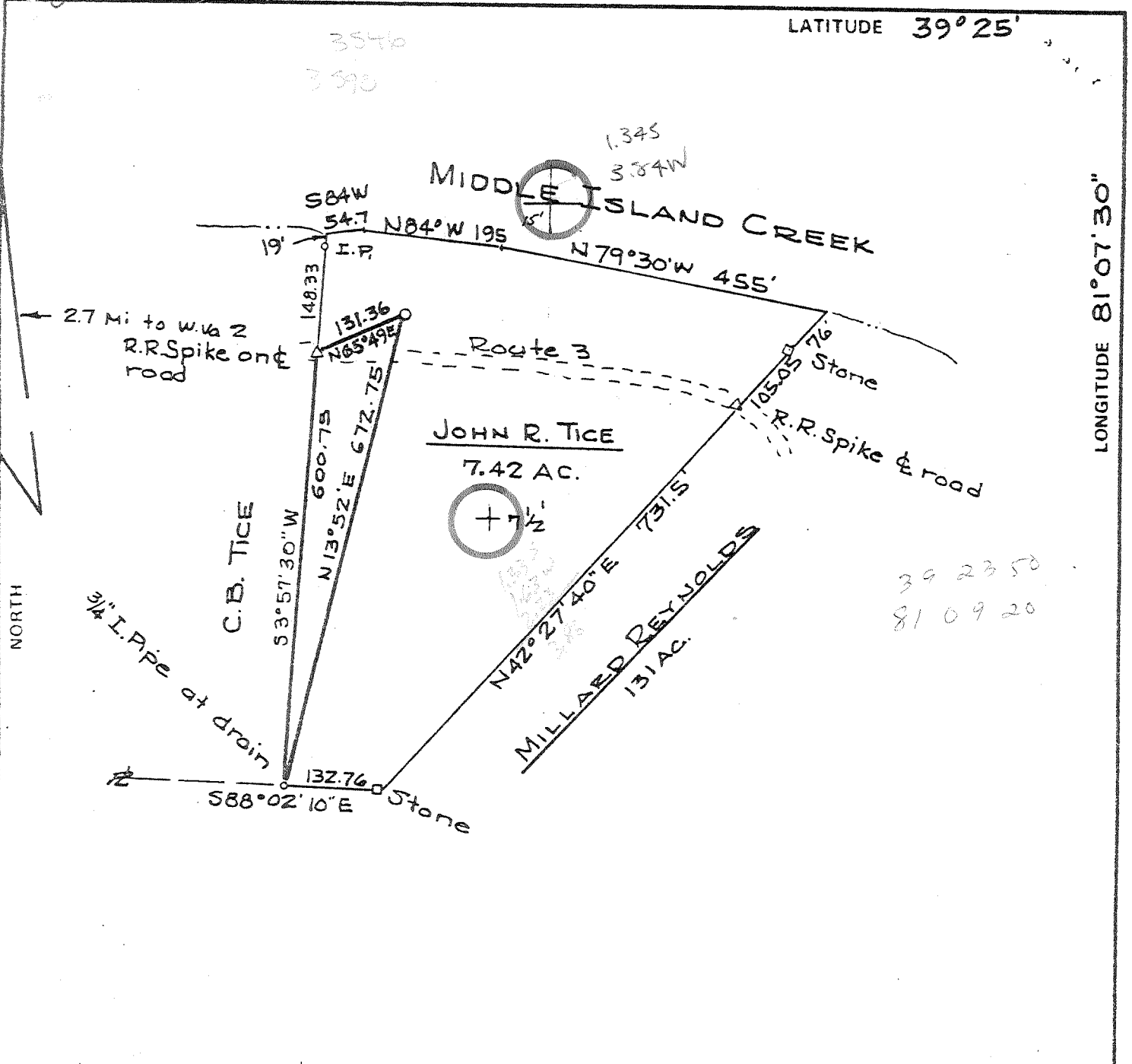
REGISTERED AGENT  
ADDRESS \_\_\_\_\_  
PH: \_\_\_\_\_

David E. Loxtercamp  
Same Address  
PH: 1-800-846-7587

OCT 1 1980

LATITUDE 39°25'

LONGITUDE 81°07'30"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=200'  
 MINIMUM DEGREE OF ACCURACY 1:5000  
 PROVEN SOURCE OF ELEVATION E of Route 3, 1500'  
S.E of Well: USGS Map El. 622

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) Kenneth Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 369

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE Aug 23, 19 80  
 OPERATOR'S WELL NO. J. TICE #1  
 API WELL NO. \_\_\_\_\_  
47 - 073 - 1066  
 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 615 WATER SHED MIDDLE ISLAND CREEK  
 DISTRICT ME KIM COUNTY PLEASANTS  
 QUADRANGLE RAVEN ROCK, OHIO - W. VA. Maps   
 SURFACE OWNER JOHN R. TICE ACREAGE 7.42  
 OIL & GAS ROYALTY OWNER John R. Tice LEASE ACREAGE 7.42  
 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 OHIO SHALE ESTIMATED DEPTH 3900' ±  
 WELL OPERATOR LEB OIL INC DESIGNATED AGENT LOREN BAGLEY  
 ADDRESS 110 1/2 WASHINGTON ST. ADDRESS 110 1/2 WASHINGTON ST.  
ST. MARYS, W.VA. 26170 ST. MARYS, W.VA 26170

6-4 ST. MARYS

JAN 10 1981

77

FEB 10 1997  
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: TICE, JOHN Operator Well No.: JOHN TICE #1

LOCATION: Elevation: 615.00 Quadrangle: RAVEN ROCK

District: MCKIM County: PLEASANTS  
Latitude: 7030 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 8750 Feet West of 81 Deg. 7 Min. 30 Sec.

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

Agent: BERNARD TICE

Inspector: SAM HERSMAN  
Permit Issued: 10/15/96  
Well work Commenced: 11/22/96  
Well work Completed: 1/24/97  
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.
8 5/8"	308'	308'	100 SKS.
4 1/2"		4400'	180 SKS.

EXISTING

OPEN FLOW DATA

Producing formation Pocono Pay zone depth (ft) 1500'  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 15 MCF/d Final open flow 2 Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 610 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.

RECEIVED  
WV Division of  
Environmental Protection

FEB 13 1997

Permitting  
Office of Oil & Gas

For: ECOLOGICAL ENERGY, INC.

By: A. J. Sabatino Consultant  
Date: 2/3/97

OVER----- FEB 24 1997

Temporary Bridge Plug: 4 1/2" Solid bridge plug set at 1660'.

Perforated Interval: (1518'-1526') 18 holes, 0.41".

Fracturing Treatment: 500 gals. 7 1/2% HCL. acid, 339 BBLs. gelled water, Breakdown Press: 3390#, Avg. rate 12 BPM, Avg. Press: 2350#, 32400 Lbs. 20/40 sand, ISIP: 1403#.

See original IV-35 State report for additional formation information and well data.

FORM IV-35  
(Reverse)  
[08-78]

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

WELL OPERATOR'S REPORT

OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date: April 13  
Operator's Well No. John R. Tice  
API Well No. 7-073  
State Count

WELL TYPE: Oil  Gas  Liquid Injection  Waste Disposal

(If "Gas", Production  Underground storage  Deep  Shallow

LOCATION: Elevation: 615 District: McKim

County: Pleasants Quadrangle: Raven Rock, Ohio-W

WELL OPERATOR L & B Oil Company, Inc.

Address 108 Washington St. St. Marys, WV 26170

DESIGNATED AGENT  
Loren E. Bagley  
Address 108 Washington St. St. Marys, WV 26170

PERMITTED WORK: Drill  Convert  Drill deeper  Redrill  Perforate new formation  Plug off old formation  Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON December 8, 1981

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REMORKING. VERBAL PERMISSION OBTAINED

Name Phillip Tracy  
Address Rt. 23, Alma West Virginia 26320

GEOLOGICAL TARGET FORMATION: Riley

Depth of completed well, 4386 feet  
Rotary / Cable Tools X  
Water strata depth: Fresh, 60 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: N/A  
Work was commenced December 18, 1981, and completed April 1, 1981.

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	Grade	Weight per ft. New	Used	Port drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)
Conductor	10 3/4"	20#	X		308.15	308.15	
Fresh water							
Coal							
Intermediate							
Production							
Tubing							
Liners							
Casing	4 1/2"	10.5#	X		4400.95	4400.95	3948-4220 50...

OPEN FLOW DATA

Producing formation Riley  
Gas: Initial open flow, 175,000 Mcf/d  
Final open flow, 140,000 Mcf/d  
Time of open flow between initial and final tests, 24 hours  
Initial open flow, 981/d  
Final open flow, 981/d  
Pay zone depth 3988-4110

1981 9 1881

[08-78]

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

Fourteen perforations between 3948 and 4316. One thousand gallons of HC Acid.

Nitrogen frac 1,800,000 SCF. Breakdown at 3200#.

WELL LOG

FORMATION	Color	Hard or Soft	Feet		Remarks Including indication of all fr and salt water, coal, oil and
			Top	Bottom	
Clay			0	20	
Red Rock and Sand			20	659	
Red Rock			659	704	
Shale			704	800	
Sandy Shale			800	830	
Shale			830	860	
Sandy Shale			860	885	
Sand			885	900	
Shale			900	925	
Sand			925	950	
Shale and Sand			950	975	
Shale			975	1000	
Sand			1000	1025	
Shale and Sand			1025	1050	
Shale			1050	1075	
Shale and Sand			1075	1100	
Shale			1100	1125	
Salt Sand			1125	1159	
Shale			1159	1179	
Shale			1179	1329	
Greenbrier			1329	1349	
Shale and Sand			1349	1415	
Shale			1415	1445	
Big Injun			1445	1515	
Shale and Sand			1515	1535	
Squaw			1535	1605	
Shale and Sand			1605	1630	
Shale			1630	1670	
Shale and Sand			1670	1700	
Shale			1700	1720	
Weir			1720	1770	
Shale and Sand			1770	1790	
Gas and Sand			1790	1800	
Berea			1800	1812	
Shale and Sand			1812	1845	
Shale			1845	1875	
Sand			1875	1900	
Gantz			1900	1915	

(Attach separate sheets to complete as necessary)

CONTINUATION.....

L & B Oil Company, Inc.

Well Operator

By Loren E. Bagley

Its President

NOTE: Regulation 2.03(t) 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."

CONTINUATION

IV-35  
(verse)

08-78]

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

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all fr and salt water, coal, oil and
Shale and Sand			1915	1940	
Shale			1940	1970	
Fifty Foot			1970	2020	
Shale and Sand			2020	2050	
Thirty Foot			2050	2085	
Shale and Sand			2085	2110	
Gordon Stray			2110	2160	
Gordon			2160	2200	
Shale and Sand			2200	2225	
Shale			2225	2255	
Fourth Sand			2255	2275	
Shale and Sand			2275	2300	
Shale			2300	2320	
Fifth Sand			2320	2342	
Shale and Sand			2342	2375	
Shale			2375	2490	
Bayard			2490	2504	
Shale			2504	2755	
Warren First			2755	2780	
Shale			2780	2870	
Warren Second			2870	2876	
Shale			2876	2955	
Tiona?			2955	2962	
Shale			2962	3070	
Speechley			3070	3078	
Shale			3078	3200	
Balltown			3200	3209	
Shale			3209	3390	
Sheffield?			3390	3408	
Shale			3408	3500	
Bradford			3500	3522	
Shale			3522	3715	
Elk?			3715	3722	
Shale			3722	3845	
Kane?			3845	3853	
Shale			3853	3988	
Riley			3988	4003	
Shale			4003	4170	
Benson			4170	4202	
Shale			4202	4386	

(Attach separate sheets to complete as necessary)

L & B Oil Company, Inc.

Well Operator

By Loren E. Bagley

Its President

**NOTE:** Regulation 2.03(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

OCT 29 1981

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

- 1) Well Operator: Ecological Energy, Inc. 5645 15240 (4) 564
- 2) Operator's Well Number: John Tice #1 3) Elevation: 615'
- Well type: (a) Oil \_\_\_ / or Gas X / *Issued 10/15/96*  
*Expires 10/15/98*
- (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- Proposed Target Formation(s): Pocono 371
- Proposed Total Depth: 1520' feet
- 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 Pocono Sand, remove plug, commingle with original production.
- 12) \_\_\_\_\_

**RECEIVED**  
WV Division of  
Environmental Protection  
OCT 07 1996  
Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water						
Coal						
Intermediate	10-3/4"			308'	308'	100sks.
Production	4-1/2"				4400'	180sks.
Tubing						
Liners						

*Existing from Well Records*

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

For Office of Oil and Gas Use Only

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

22694



1) Date: 9/23/96  
2) Operator's well number  
John Tice #1  
3) API Well No: 47-73 - 1066 - 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 John Tice Name N/A  
 Address St. Mary's, WV 26170 Address \_\_\_\_\_  
 (b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
 Address \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 (c) Name \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_
- 6) Inspector John Harsman (c) Coal Lessee with Declaration  
 Address Rt. 1, Box 240 Name N/A  
Harrisville, WV 26362 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

       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.

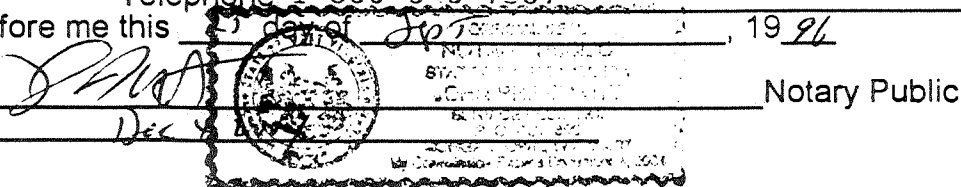
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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 *David Loxtercamp*  
Its: President  
Address Box 893  
Morgantown, WV 26507  
Telephone 1-800-845-7587

Subscribed and sworn before me this 23 day of September, 19 96

My commission expires DEC 31 1996



Notary Public



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

DEC - 14 1980

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE 11/14/80

Surface Owner John R. Tice  
Address Rt. 39, St. Marys, WV  
Mineral Owner John R. Tice  
Address Rt. 39, St. Marys, WV  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company L & B Oil Co., Inc.  
Address 108 Washington St., St. Marys, WV  
Farm John Tice Acres 7.42  
Location (waters) Middle Island Creek  
Well No. Tice #1 Elevation 615  
District McKim County Pleasants  
Quadrangle Raven-Rock, Ohio-W.Va.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-8-81.

INSPECTOR  
TO BE NOTIFIED Philip Tracy  
ADDRESS Dodd St., Middlebourne WV  
PHONE 758-3373

J. E. Murray  
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 11/26 1980 by John R. Tice and Robin Tice made to L & B Oil Co. Inc. and recorded on the 26th day of November 1980 in Pleasants County, Book 159 Page 497

NEW WELL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
John F. Boyley  
(Sign Name) L & B Oil Co. Inc.  
Well Operator  
Address 108 Washington St.  
Street  
of St. Marys  
Well Operator City or Town  
West Virginia  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-073-1066

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

*Sammy*

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME Loren O. Bagley  
 ADDRESS \_\_\_\_\_ ADDRESS 108 Washington St., St. Marys  
 TELEPHONE \_\_\_\_\_ TELEPHONE 684-9399  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 TYPE OF WELL: OIL XX GAS XX COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250ft.	250	to Surface
7			
5 1/2			
4 1/2	TD	4000	4000 ft. 400 Sks. as
3			Perf. Top as req'd by
2			Perf. Bottom with 15/01
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS N/A \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title