

FILE NO. _____
 DRAWING NO. _____
 SCALE **1" = 500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **ROAD INT. 673'**

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

PLACE SEAL HERE

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

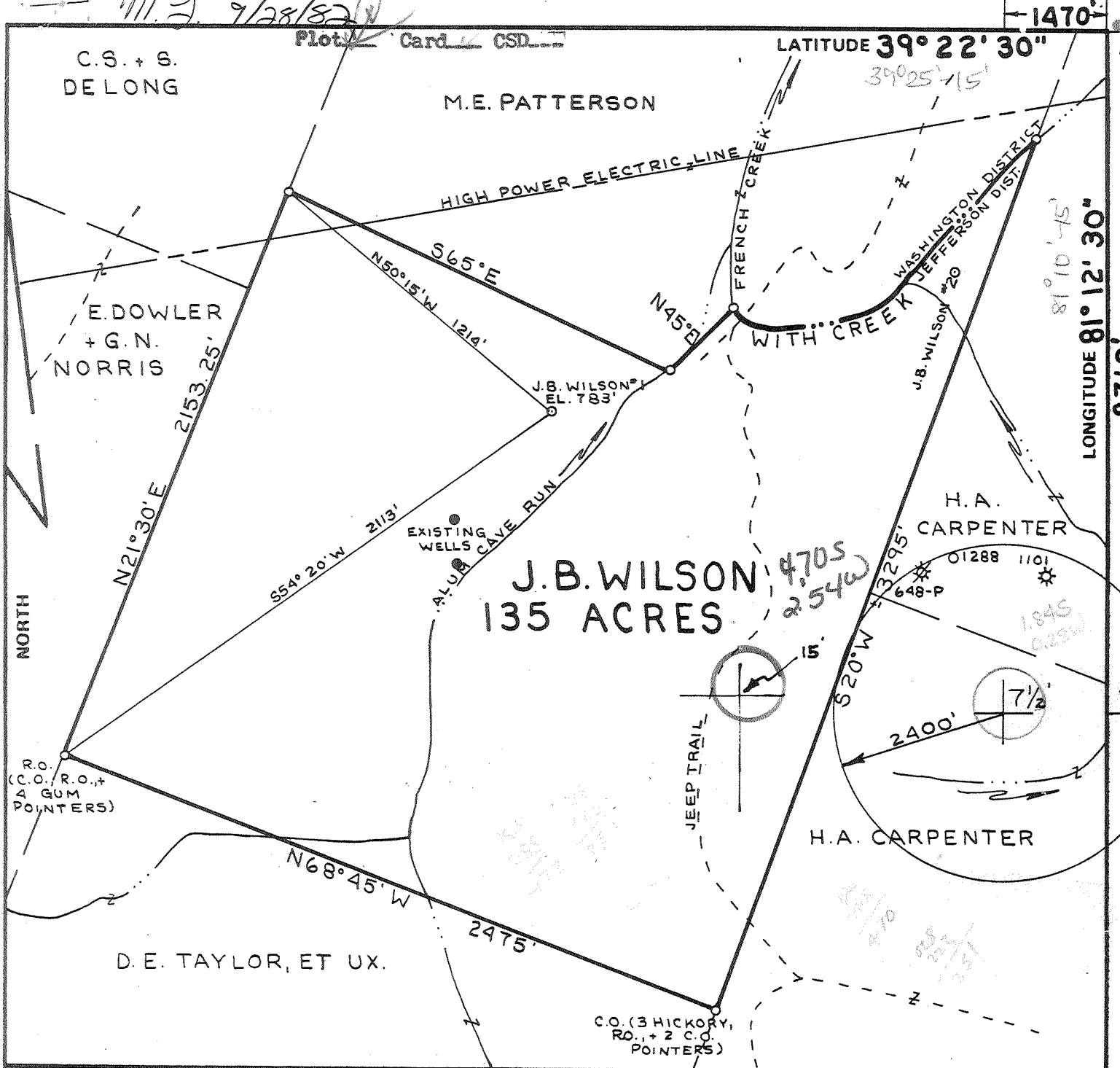


DATE **9 SEPTEMBER, 19 82**
 OPERATOR'S WELL NO. **J.B. WILSON #1**
 API WELL NO. **47 - 073 - 015257**
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION **738'** WATER SHED **ALUM CAVE RUN**
 DISTRICT **JEFFERSON** COUNTY **PLEASANTS**
 QUADRANGLE **SCHULTZ** **7 1/2'**
 SURFACE OWNER **B. WILSON** ACREAGE **135**
 OIL & GAS ROYALTY OWNER **J.B. WILSON** LEASE ACREAGE **135**
 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) **ECO. IS TO SET TEMP. PLUG**
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION **BENSON** ESTIMATED DEPTH **4200'** **SPALL CONCRETE**

Ecological Energy, Inc.
 Box 893
 Morgantown, Wva. 26507-0893
 IATED AGEN
 ADDRESS Bernard Tice
 P.O. Box 730
 St. Marys, wva. 26170-0730
 NOV 10 7 1997

PLA. 1525




FILE NO. _____
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 SCALE **1" = 500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
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 (SIGNED) *William R. Hesse*
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION **738'** WATER SHED **ALUM CAVE RUN**
 DISTRICT **JEFFERSON** COUNTY **PLEASANTS**
 QUADRANGLE **SCHULTZ 7 1/2'** *St. Marys Wc*
 SURFACE OWNER **B. WILSON** ACREAGE **135**
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 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 **BENSON** ESTIMATED DEPTH **4200'**
 WELL OPERATOR **L + B OIL CO., INC.** DESIGNATED AGENT **LOREN E. BAGLEY**
 ADDRESS **210 SECOND STREET ST. MARYS, W.VA. 26170** ADDRESS **210 SECOND STREET ST. MARYS, W.VA. 26170**



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE **9 SEPTEMBER, 19 82**
 OPERATOR'S WELL NO. **J.B. WILSON #1**
 API WELL NO. _____
47 - 073 - 1525
 STATE COUNTY PERMIT

OCT 04 1982

RECEIVED

SEP 1 1 1984



IV-35
Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 10, 1983
Operator's
Well No. J.B. Wilson #1
Farm J.B. Wilson
API No. 47 - 073 - 1525

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

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

LOCATION: Elevation: 746 Watershed Alum Cave Run
District: Jefferson County Pleasants Quadrangle Schultz

COMPANY L & B Oil Company, Inc.
ADDRESS P.O. Box C, St. Marys, WV 26170
DESIGNATED AGENT Bernard Tice
ADDRESS P.O. Box C, St. Marys, WV 26170
SURFACE OWNER J.A. Wilson
ADDRESS Dutch Ridge Rd., Beaver, PA 15009
MINERAL RIGHTS OWNER J.A. Wilson
ADDRESS Dutch Ridge Rd., Beaver, PA 15009
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS 3rd St., Middlebourne
PERMIT ISSUED 9-27-82
DRILLING COMMENCED 10-19-82
DRILLING COMPLETED 10-22-82
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	876'	876'	to surface
7			
5 1/2			
4 1/2	4168'	4168'	600 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4200 feet
Depth of completed well 4200 feet Rotary x / Cable Tools
Water strata depth: Fresh 80 feet; Salt 1310 feet
Coal seam depths: None Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Gordon, Speechley Pay zone depth 3629 feet
Gas: Initial open flow 750 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 500 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 920 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)

OCT 09 1984

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

- Stage #1 - 14 perfs. from 3564 to 3629 ^{← Huron} Frac with 700,000 SCF N2.
- Stage #2 - 14 perfs. from 3408 to 3474 ^{← Huron} Frac with 700,000 SCF N2.
- Stage #3 - 18 perfs. from 2363 to 2420 ^{← Dev. undiff.} Frac with foam frac 300,000 SCF N2 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	350	
Red Shale and Sandstone			350	950	
Sandstone and Shale			950	1966	
Berea			1966	1970	
Gordon			2258	2276	
Speechley			3408	3629	
Shale			3629	4204	Huron @ T.D. 4204 1970 <u> </u> 2234 4204 746 <u> </u> 3458

(Attach separate sheets as necessary)

L & B Oil Company, Inc.

Well Operator

By: Bernard Tris President

Date: October 10, 1983

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 all, encountered in the drilling of a well."

WR-35

03-Nov-97
API # 47- 73-01525 F

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

Well Operator's Report of Well Work

Farm name: WILSON, J. A. Operator Well No.: J. B. WILSON 1

LOCATION: Elevation: 738.00 Quadrangle: SCHULTZ

District: JEFFERSON County: PLEASANTS
Latitude: 9710 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 1470 Feet West of 81 Deg. 12 Min. 30 Sec.

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

Agent: BERNARD TICE

Inspector: SAM HERSMAN
Permit Issued: 11/03/97
Well work Commenced: 11/20/97
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.
8 5/8"	876'	876'	Cmt. to Sur.
4 1/2"		4168'	600 SKS.

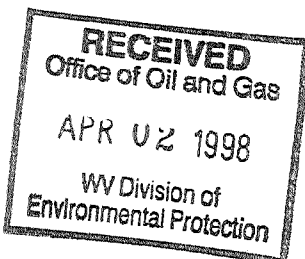
EXISTING

OPEN FLOW DATA

Producing formation Squaw Pay zone depth (ft) 1580'
 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 510 Hours
 Static rock Pressure _____ 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: [Signature] Consultant
Date: 3/9/98

OVER → APR 7 1998

PLF 1525 F

Temporary Bridge Plug: 4 1/2" Solid Bridge Plug set at 1680'

Perforated Interval: (1570' - 1576') 6 holes
(1580' - 1586') 6 holes
12 holes total, .041"

Fracturing treatment: 500 gals. 7 1/2% HCL. acid, 337 BBLs. treated water,
Breakdown Press.: 4100#, Avg. rate: 11.07 BPM,
Avg. Press.: 2614#, 25000 Lbs. 20/40 sand, ISIP: 1813#

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

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address _____

GEOLOGICAL TARGET FORMATION Dovenian Shale (Benson)
Estimated depth of completed well 4200 feet. Rotary xx / Cable tools /
Approximate water strata depths: Fresh, 80 feet; salt, N/A feet.
Approximate coal seam depths: None
Is coal being mined in this area: Yes / No xx /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	10"	RL	40.5	XX		250	250	to surface	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	RL	23	XX		1200'	1200	to surface	
Production	4 1/2"	RL	10.5	XX		4200	4200	By rule 150	Depths set
Tubing									
Liners									Perforations: Top Bottom

*NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.*

Yes No xx The right to extract, produce or market the oil or gas is based upon a lease or other continuing contract or contracts providing or flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil and gas so extracted, produced or marketed.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: _____, 19____.

By: _____

Its: _____

1) Date: 9/15/97
2) Operator's well number J. B. Wilson #1
3) API Well No: 47 - 73 - 1525 - 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 J. A. Wilson Name N/A
 Address Dutch Ridge Road Address _____
Beaver, Penn. 15009
 (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**

_____ 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:

- _____ 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, W. Va. 26507
 Telephone 1-800-846-7587

Subscribed and sworn before me this 14 day of OCT, 1997

My commission expires Dec 4, 2004

