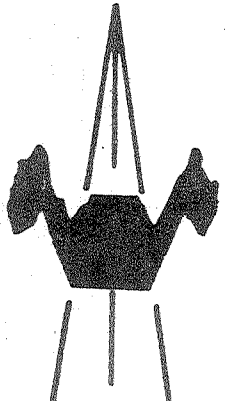
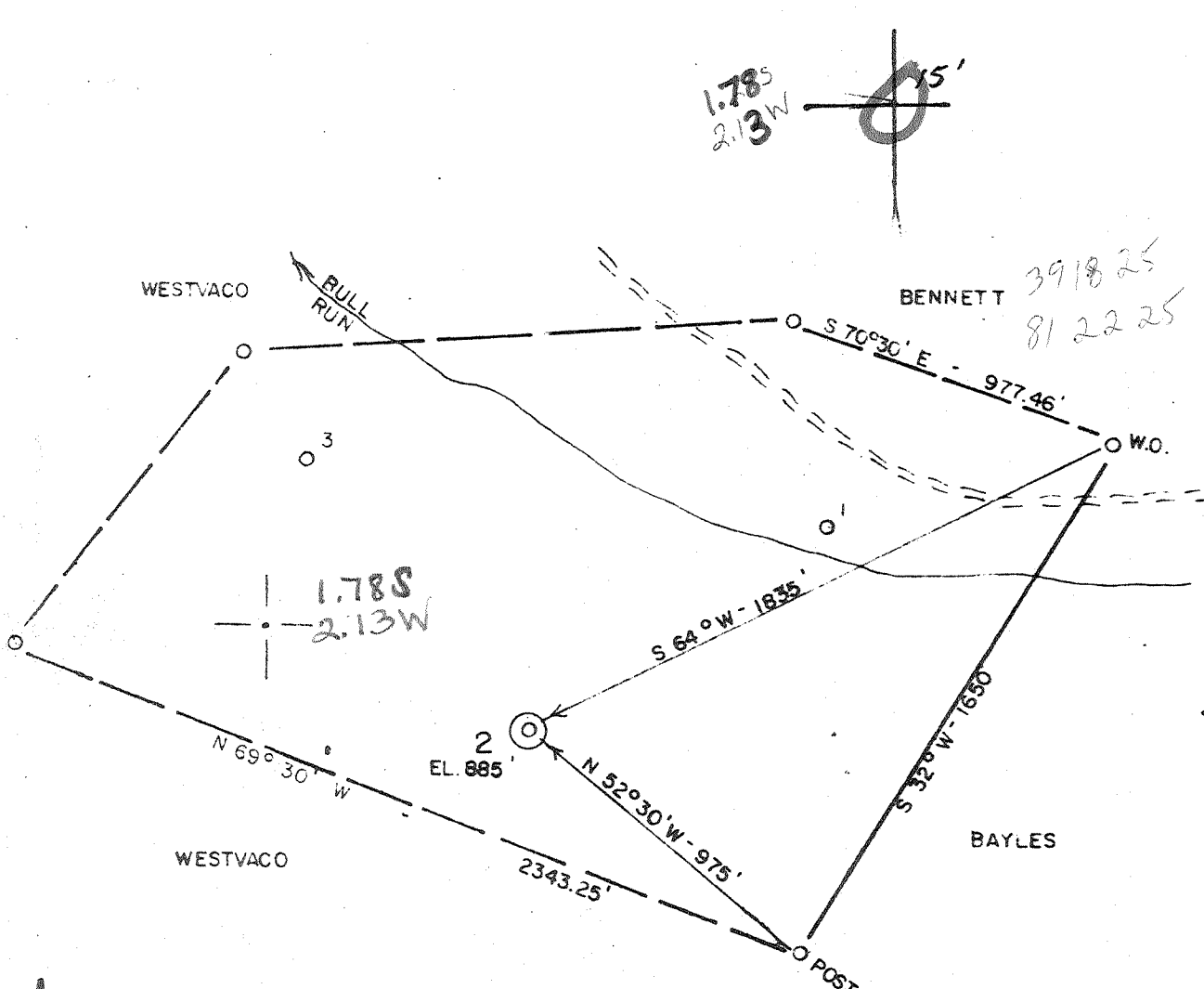


Latitude 39° 20' 00"

9400' SOUTH  
11260' WEST

Longitude 81° 20' 00"

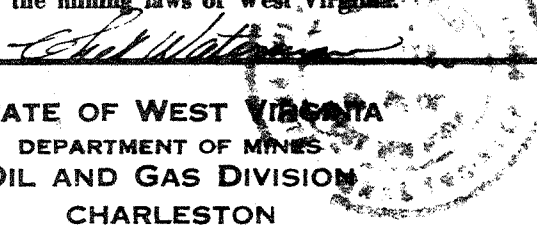


ACCURACY: 1'/200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation GORDON Oil   
 Est. Depth 2800' Gas   
 Other

Source of Elevation PUMPKIN KNOB ROAD INT. (700')  
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 4 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.



Company ENERGY UNLIMITED  
 Address MARIETTA, OH  
 Surface Owner J. WILCOXEN  
 Mineral Owner J. WILCOXEN & K. FLESHER

---

Well No. 2 Acres 80  
 Elevation 885' MARIETTA 15' 30"  
 Quadrangle WILLOW ISLAND Series 7.5'  
 County WOOD District UNION  
 Date 3/24/80 Scale 1" = 500'

**WELL LOCATION MAP**  
47 - 107 - 1108  
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788 File No. 80-159

6-4. 4000' Sycamore GRIT HENDERSHOT OGDIN DEC 19 1980 72



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

FW 50#M and in 814 bbl H2O  
thru 14 - .5 holes from 2619' to 2638'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
soil		soft	0	15	
shale		soft	15	90	
sand		hard	90	110	fresh water
shale		soft	110	280	
sandy shlae		medium	280	375	
sand		hard	375	392	fresh water
shale		soft	393	720	
sand		hard	720	750	
shale		soft	750	915	
sand		hard	915	926	
silty shale		soft	926	1340	
snad		hard	1340	1382	
shale		soft	1382	1620	
sand		hard	1620	1655	
shale		soft	1655	1724	
Keener		hard	1724	1754	salt water, show of gas
shale		soft	1754	1760	
Big Injun		hard	1760	1902'	
shale		soft	1902	2204	
silty shale		medium	2204	2208	little gas
shale		soft	2208	2260	
Berea		hard	2260	2271	show of gas & oil
shale		soft	2271	2498	
Thirty-Foot		medium	2498	2508	little gas
shale		soft	2508	2618	
Gordon		medium	2618	2650	show of gas & oil
shale		soft	2650	2719	T. D. 2719'

(Attach separate sheets as necessary)

Energy Unlimited, Inc.

Well Operator

By:

Douglas M. Galloway

Date:

4/29/82

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 ..."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECEIVED**

OCT 13 1981

**Oil and Gas Division**

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

**WELL RECORD**

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. X  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Willow Island

Permit No. 47-107-1108

Company Energy Unlimited, Inc.  
Address 427 Second St. Marietta, OH 45750  
Farm Wilcoxen Acres 80  
Location (waters) Bull Run  
Well No. #2 Elev. 885'  
District Union County Wood  
The surface of tract is owned in fee by \_\_\_\_\_

Address \_\_\_\_\_  
Mineral rights are owned by J. Wilcoxen  
Address K. Flesher

Drilling Commenced 12/12/80  
Drilling Completed 12/20/80  
Initial open flow -0- cu. ft. -0- bbls.  
Final production 40M cu. ft. per day 10 bbls.  
Well open 24 hrs. before test 550 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill of Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8		249'	90 sx
7			
5 1/2			
4 1/2		2705'	250' sx
3			
2			
Liners Used			

Well treatment details:

FW 50#M and in 814 bbl H2O  
thru 14 - .5 holes from 2619' to 2638'

Attach copy of cementing record.

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 90' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Gordon Depth 2618' to 2650'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
shale	gray	soft	-----	1724'	-----	top logged interval
sand	white	hard	1724'	1754'	salt water	1700' Keener
shale	gray	soft	1754'	1760'	-----	-----
sand	white	hard	1760'	1902'	salt water	Big Injun
shale	gray	soft	1902'	2204'	-----	-----
silty-shale	gray	medium	2204'	2208'	little gas	-----
shale	gr-black	soft	2208'	2260'	-----	-----
sand	white	hard	2260'	2271'	show of gas & oil	Berea
shale	gray	soft	2271'	2498'	-----	-----
silty-shale	gray	medium	2498'	2508'	little gas	Thirty-Foot
shale	gray	soft	2508'	2618'	-----	-----
silty-shale	gr-brown	medium	2618'	2650'	show of gas & oil	Gordon
shale	gray	soft	2650'	2719'	-----	T.D. 2719'

(over)

OCT 20 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date Oct. 8, 19 81

APPROVED Energy Development, Inc. Owner

By [Signature]



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

NOV 17 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 17, 1980

Surface Owner Jack R. Wilcoxen

Company Energy Unlimited, Inc.

Address Rt. #1, Box 19, Waverly, W. Va.

Address 427 Second Street, Marietta, Ohio

Mineral Owner Jack Wilcoxen & Kenner Flesher

Farm Jack Wilcoxen Acres 80

Address \_\_\_\_\_

Location (waters) Bull Run

Coal Owner same as mineral owners

Well No. #2 Elevation 885'

Address \_\_\_\_\_

District Union County Wood

Coal Operator N/A

Quadrangle Willow Island - Marietta

Address \_\_\_\_\_

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 7-19-81.

INSPECTOR TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-3660

J. E. Huggins  
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 December 26 1979 by Jack R. Wilcoxen made to Energy Unlimited, Inc. and recorded on the 31st day of Dec. 1979 in Wood County, Book 732 Page 368

XX 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.

Very truly yours, By: Douglas M. Galloway

(Sign Name) [Signature]  
Well Operator

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

Address of Well Operator

427 Second Street

Street  
Marietta

City or Town

Ohio

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.

(Formerly WOOD-985)

47-107-1108

PERMIT NUMBER

BLANKET BOND

"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 [Signature]

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

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME N.A. NAME David Clovis  
 ADDRESS \_\_\_\_\_ ADDRESS Union Trust Bldg, Parkersburg, WVA  
 TELEPHONE \_\_\_\_\_ TELEPHONE 1-304-485-4403  
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Sycamore Grit  
 TYPE OF WELL: OIL X GAS X COMB. X 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 <u>XX</u>	250'	250'	to Surface
7			
5 1/2			
4 1/2 <u>XX</u>	TD	TD	1200' or as reqd by Rule 15101
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER 1500 FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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