

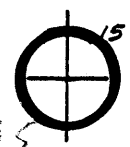
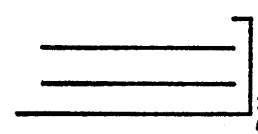
CG 4/2
Plot

Card ~~CSD~~

10,750' WEST

Latitude 39° 20' 00"

Longitude 81° 20' 00"

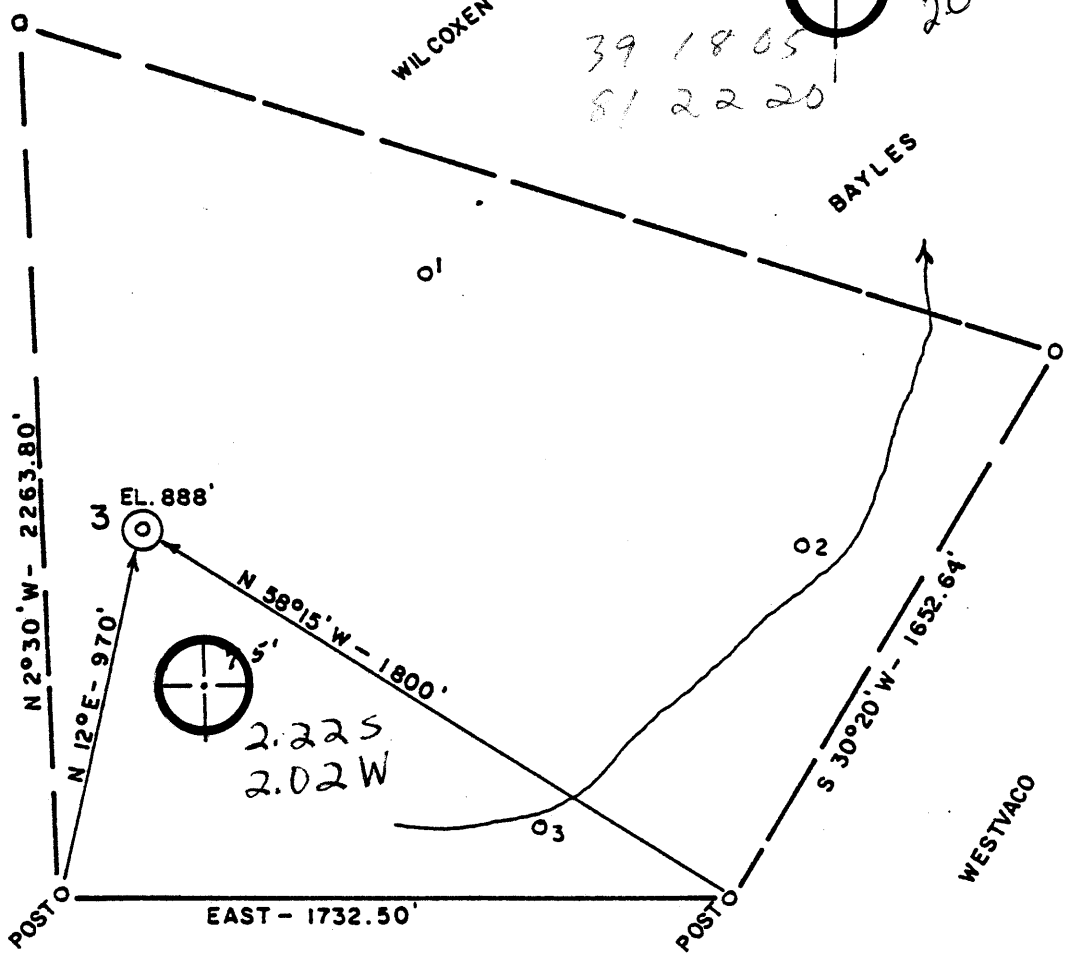


39 18 05
81 22 20

WILCOXEN

BAYLES

WESTVACO



2.225
2.02W



11,720' SOUTH

ACCURACY: 1/200

New Location

Drill Deeper

Abandonment

Fracture

Redrill

Other

Formation MARCELLUS SHALE Oil

Est. Depth 4600' (2 & 4) Gas

4700' (1 & 3) Other

Source of Elevation ROAD INT. ON BULL RUN ROAD 660'

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company ENERGY UNLIMITED

Address MARIETTA, OHIO

Surface Owner WESTVACO

Mineral Owner CORBIN HEIRS ET. AL.

Well No. 3 Acres 96.5

Elevation 888' Marietta 15' SC

Quadrangle WILLOW ISLAND Series 7.5

County WOOD District UNION

Date 3/25/81 Scale 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES AND METALS
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

47 - 107 - 1153

STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
Engineer CHET WATERMAN
Engineer's Registration No. 3788 File No. 81-124

deep 6-Q HENDERSHOT-OGDIN

APR 13 1981

4700' 72



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle Willow Island

Permit No. #47-107-1153

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

Company Energy Unlimited, Inc.
Address 427 Second St. Marietta, OH 45750
Farm Corbin Acres 96.5
Location (waters) Bull Run
Well No. #3 Elev. 4700'?
District Union County Wood
The surface of tract is owned in fee by _____
West Vaco

Address 1900 Blizzard Dr. Parkersburg, WV 26108
Mineral rights are owned by Bayles/Corbin Heis etal
Address _____

Drilling Commenced 5/5/81
Drilling Completed 5/9/81
Initial open flow 10M cu. ft. _____ bbls.
Final production 10M cu. ft. per day 6 bbls.
Well open 24 hrs. before test 475 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8		270	100 SX
5 1/2			
4 1/2		2740.99	250 SX
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Treated with 50,000# sand, 34,000 gals H₂O, 120 MSCF nitrogen at 40 BPM and 2025 PSIG

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet Salt Water _____ Feet
Producing Sand GORDON Depth 2686

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand				1932'		
Sand	white	hard	2261'	2271'	salt water fair show	Big Injun Berea
Siltstone & shale			2484'	2508'	of oil & gas little gas	Thirty-foot
Siltstone	gray	medium	2616'	2646'	show of & oil gas	<u>Gordon</u>

RECEIVED

SEP 11 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

* Indicates Electric Log tops in the remarks section.

(over)

SEP 28 1981

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

Date 9-4 19 81

APPROVED [Signature] Owner

By [Signature]
(Title)



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

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APR 1 1981

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 31, 1981

Surface Owner West Vaco
Address 1900 Blizzard Dr. Parkersburg, WV 26101
Mineral Owner Bayles-Corbin Heirs etal
Address N/A
Coal Owner Same
Address
Coal Operator None

Company Energy Unlimited, Inc.
Address 427 Second St. Marietta, OH 45750
Farm Corbin Acres 96.5
Location (waters) Bull Run
Well No. #3 Elevation 4700'
District Union County Wood
Quadrangle Willow Island

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 12-2-81

INSPECTOR TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, WV.

PHONE 477-2455

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 19 by Corbin Heirs etal made to Energy Unlimited, Inc. and recorded on the day of 19 in Wood County, Book N/A Page N/A
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, Energy Unlimited, Inc.

(Sign Name) Douglas M. Galloway
Well Operator
427 Second St.
Street
Marietta
City or Town
Ohio
State

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

BLANKET BOND

47-107-1153

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

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 N/A _____ NAME David C. Clovis
 ADDRESS _____ ADDRESS Union Trust Bldg., Parkersburg, WV
 TELEPHONE _____ TELEPHONE 485-4403
 ESTIMATED DEPTH OF COMPLETED WELL: 4,700' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Marcellus
 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 X	250'	250'	to surface
7			
5 1/2			470
4 1/2 X	TD	TD	200 sacks or as
3			Perf. Top <i>regd. by rule</i>
2			Perf. Bottom <i>1501</i>
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER 1,500 FEET
 APPROXIMATE COAL DEPTHS none
 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