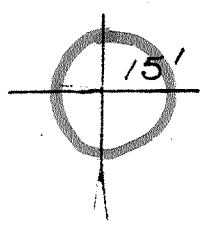


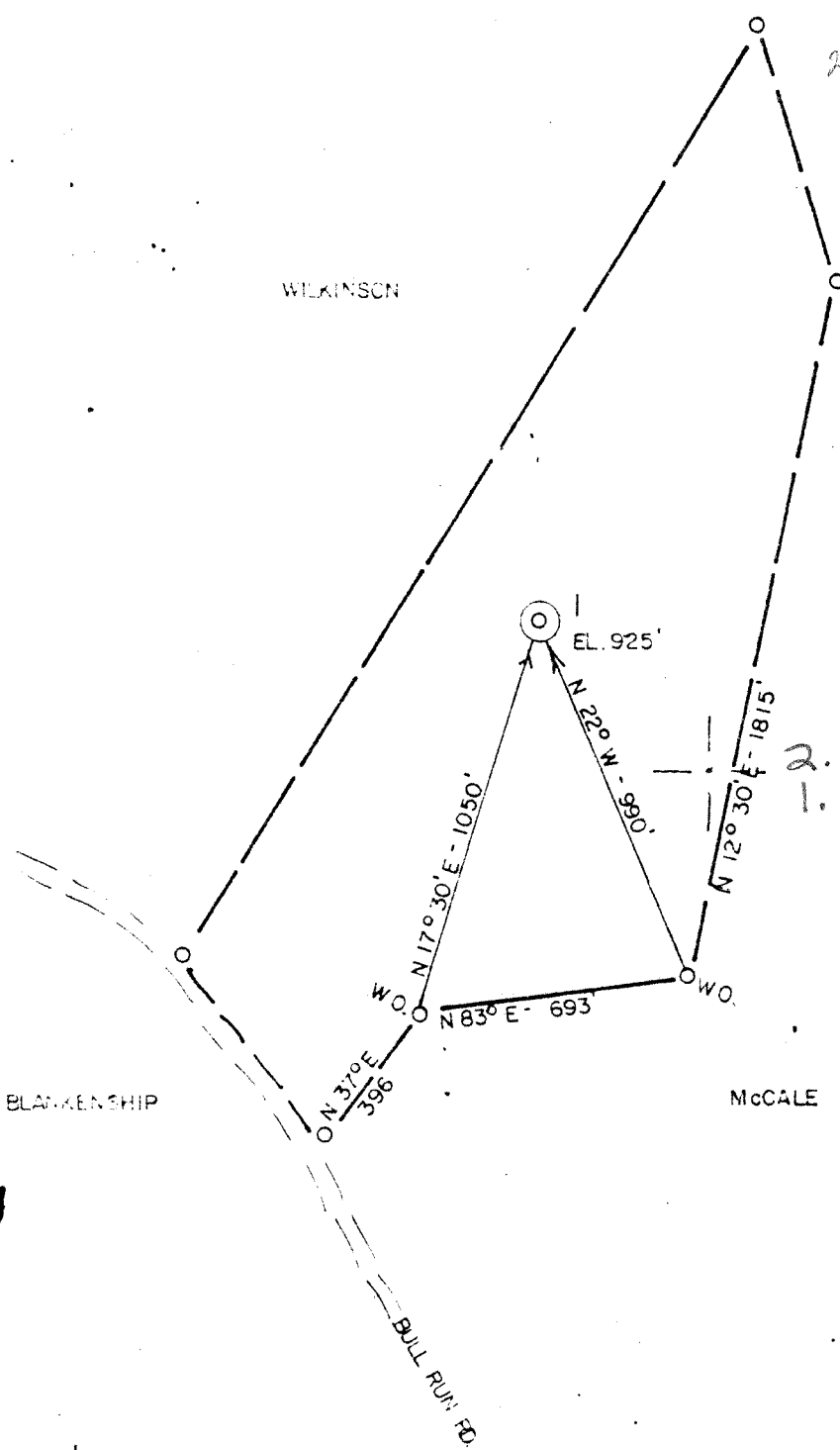
Latitude 39° 20' 00"

10 980' SOUTH
5 410' WEST

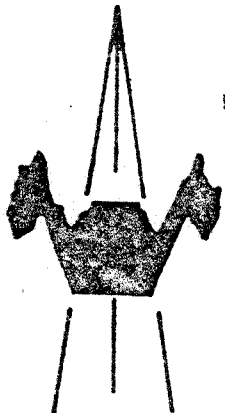
Longitude 81° 20' 00"



WILKINSON



39 18 10
81 21 15



BLANKENSHIP

McCALE

Formation GORDON Oil
Est. Depth 2800' Gas
Other

ACCURACY: 1" / 200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company BEREA OIL & GAS CORP
 Address BUFFALO, NY
 Surface Owner BLANCHE LOCKHART
 Mineral Owner " "
 Well No. 1 Acres 44-1/2 *SL*
 Elevation 925' MARIETTA 15'
 Quadrangle WILLOW ISLAND Series 7.5'
 County WOOD District UNION
 Date 3/24/80 Scale 1" = 500'

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

WELL LOCATION MAP
47 - 107 - 1113
 STATE COUNTY PERMIT
 Formerly wood-967
 + Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN JAN 2 1981
 Engineer's Registration No. 3788 File No. 80-161

6-6 Hendershot-Ogden (72)



"AMENDMENT"

IV-35
(Rev 8-81)

Date April 19, 1982
Operator's _____
Well No. Lockhart #1
Farm Blanche Lockhart
API No. 47 - 107 - 1113

RECEIVED State of West Virginia

APR 23 1982

Department of Mines
Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 X /)

LOCATION: Elevation: 925' Watershed Bull Run
District: Union County Wood Quadrangle Willow Island

COMPANY BEREA OIL AND GAS CORPORATION

ADDRESS One Berea Plaza, PO Box 299, Bridgeport WV

DESIGNATED AGENT Thomas E. Riley, P.E.

ADDRESS One Berea Plaza, PO Box 299, Bridgeport WV

SURFACE OWNER Blanche Lockhart

ADDRESS Rt. 1, Box 32, Waverly, WV

MINERAL RIGHTS OWNER same.

ADDRESS same.

OIL AND GAS INSPECTOR FOR THIS WORK _____

Deo Mace ADDRESS Rt. 1, Box 65, Sandridge WV

PERMIT ISSUED March 31, 1980

DRILLING COMMENCED 12/27/80

DRILLING COMPLETED 1/1/81

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	Content fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8	286'	286'	90 sks.
7			
5 1/2			
4 1/2	2800'	2772.12'	230 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION GORDON Depth 2800' feet

Depth of completed well 2800' feet Rotary X / Cable Tools _____

Water strata depth: Fresh 40' feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? NO.

OPEN FLOW DATA

Producing formation Berea and Gordon Pay zone depth 2278-2295' feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 48 Mcf/d Final open flow 27 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 240 psig (surface measurement) after 72 hours shut in

(if applicable due to multiple completion--)

Second producing formation N/A 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

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

1/12/80 - BEREA 2282-93' (15 holes) fraced w/ 150 sks 80/100 & 450 sks 20/40
in 638 Bbl. water.

GORDON 2666-79' (15 holes) w/ 180,000 SCF N₂, 150 sks 80/100 & 450
sks. 20/40 sand in 650 Bbl. water.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill & Shale			0	15	
Shale			15	25	
Sand			25	80	
Shale & Red Rock			80	160	
Red Rock			160	180	
Sand & Shale			180	255	
Red Rock & Sand			255	265	
Sand & Shale			265	285	
Sand, Shale & Red Rock			285	475	
Red Rock			475	520	
Sand & Shale			520	585	
Shale			585	870	
Sand			870	910	
Shale			910	950	
Red Rock & Shale			950	1020	
Sand & Shale			1020	1142	
Sand			1142	1226	
Sand & Shale			1226	1360	
Sand			1360	1442	
Sand & Shale			1442	1624	
Big Injun <i>SALT</i>			1624	1982	
Shale			1982	2028	
Upper Weir			2028	2040	
Shale			2040	2278	
Berea			2278	2295	
Shale			2295	2400	
Gantz Sand			2400	2406	
Shale			2406	2648	
Gordon			2648	2681	
Sand & Shale			2681	2800	T.D. 2800'

2648-2681

(Attach separate sheets as necessary)

BEREA OIL AND GAS CORPORATION

Well Operator

By: *Thomas E. Riley* Thomas E. Riley, P.E.

Date: April 19, 1982

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
coal, encountered in the course of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

RECEIVED
 FEB 13 1981
 OIL & GAS DIVISION
 DEPT. OF MINES

Quadrangle Willow Island

Permit No. 47-107-1113

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

Company Berea Oil & Gas Corporation
 Address 652 Empire Bank Bldg., Clarksburg, WV
 Farm Lockhart Acres 44.5
 Location (waters) Bull Run
 Well No. 1 Elev. 925'
 District Union County Wood
 The surface of tract is owned in fee by _____
Blanche Lockhart
 Address Rt. 1 Box 32, Waverly, WV
 Mineral rights are owned by same
 Address _____
 Drilling Commenced 12/27/80
 Drilling Completed 1/1/81
 Initial open flow _____ cu. ft. _____ bbls.
 Final production 48 M cu. ft. per day 27 bbls.
 Well open 4 hrs. before test 240 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	286'	286	90 sks.
7			
5 1/2			
4 1/2	2800'	2772.12	230 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

1/12/80 1st-Berea 2282-93' Perf. 15 holes, 638 bbl. water, 15,000 lb 80/100 sand, 45,000 lb 20/40 sand.

2nd-Gordon 2666-79' Perf. 15 holes. 180,000 Scf. N₂, 15,000 lb 80/100 sand, 45,000 lb. 20/40 sand, 650 bbl. water.

48 MCF + 2700

Coal was encountered at _____ Feet _____ Inches
 Fresh water 40 Feet _____ Salt Water _____ Feet _____
 Producing Sand Berea & Gordon Depth 2282-2679'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface to Shale			Surface	1624		
Injun			1624	1982		
Sand and Shale			1982	2278		
Berea			2278	2295		
Sand and Shale			2295	2648		
Gordon ✓			2648	2681		
Sand and Shale			2681	2800	TD	

(over)

* Indicates Electric Log tops in the remarks section.

MAR 23 1981

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DEC - 1 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION
OIL & GAS DIVISION
DEPT. OF MINES

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

DATE November 25, 1980

Surface Owner Blanche Lockhart
Address Rt. #1, Box 32, Waverly, W. Va.
Mineral Owner same
Address _____
Coal Owner same
Address _____
Coal Operator N.A.
Address _____

Company Berea Oil & Gas Corp.
Address See well operator below
Farm Blanche Lockhart Acres 44.5
Location (waters) Bull Run
Well No. # 1 Elevation 925'
District Union County Wood
Quadrangle Willow Island, Marietta

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 8-2-81.

INSPECTOR
TO BE NOTIFIED Paul Goodnight
ADDRESS Smithville, W. Va.
PHONE 1-(304)-477-3660

J. E. Muzzy
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 September 25 19 79 by Blanche Lockhart made to Energy Unlimited, Inc. and recorded on the 26th day of September 19 79, in Wood County, Book 728 Page 178

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.

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, Berea Oil and Gas Corporation

(Sign Name) Robert E. Payne
Well Operator

Address of Well Operator
652 Empire Bank Building
Street
Fourth & Main Streets
City or Town
Clarksburg
W. Va. 26301
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 this and put 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-967)

47-107-1113 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 _____

STAMP

h

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

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE STIMULATE
 DRILLING CONTRACTOR (If Known) RESPONSIBLE AGENT
 NAME **N. A.** NAME **Mark Schumacher**
 ADDRESS ADDRESS **Clarksburg, W. Va.**
 TELEPHONE TELEPHONE
 ESTIMATED DEPTH OF COMPLETED WELL **2800'** ROTARY CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION
 TYPE OF WELL OIL GAS COMB STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	DEPTH IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT
20" 16			
13" 16			
10" 8 8			
8" 8 8 XX	250'	250'	Surface
5 1/2"			
4 1/2" XX	<i>2800 T.D.</i>	<i>2800 T.D.</i>	<i>400' 280 sks. or as reqd. by rule 15.01</i>
2"			Perf. Top
			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS **150** FEET SALT WATER **1500** 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.

As 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.

Coal Company

Official Title