

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

12/3/80 - Gordon 2553-2570 (25 holes) fraced w/150,000 SCF N₂, 450 sks
20/40 & 150 sks 80/100 sand in 970 BBLs. 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	20	
Shale & Red Rock			20	100	
Red Rock			100	150	
Sand & Shale			150	245	
Red Rock & Sand			245	280	
Sand & Shale			280	300	
Red Rock & Shale			300	310	
Sand & Shale			310	380	
Sand			380	408	
Sand & Shale			408	635	
Sand			635	656	
Shale			656	747	
Sand & Shale			747	848	
Shale			848	860	
Sand & Shale			860	1416	
Shale			1416	1446	
Sand & Shale			1446	1495	
Shale			1495	1594	
Injun			1594	1800	
Shale			1800	1958	
Weir			1958	1993	
Shale			1993	2196	
Berea			2196	2212	
Shale			2212	2245	
Gordon			2245	2574	
Shale			2574	2700	T.D. 2700'

(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 ... encountered in the ... of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JAN 26 1981

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Valley Mills 7.5
Permit No. 47-107-1019

Company Berea Oil and Gas Corp.
Address 652 Empire Bank Bldg. Clarksburg, W. Va.
Farm Lonnie Tanner Acres 40
Location (waters) Slate Run
Well No. 2 Elev. 870
District Union County Wood
The surface of tract is owned in fee by Lonnie Tanner
Address Rt. 1, Waverly, W. Va.
Mineral rights are owned by Same
Address 11-15-80
Drilling Commenced 11-15-80
Drilling Completed 11-18-80
Initial open flow _____ cu. ft. _____ bbls.
Final production 34 cu. ft. per day 0 bbls.
Well open 4 hrs. before test 740 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	271.94	271.94	90 sx.
7			
5 1/2			
4 1/2	2683.33	2,683.33	235 sx.
3			
2 1 1/2"		2519 ^{1/2}	
Liners Used			

Well treatment details: 12/3/80 Gordon 2553-2570' Perf. 25 holes, 150,000 SCR N2
970 bbls. water, 45000 20/40 sand, 15,000# 80/100 sand

34 MCF

Coal was encountered at None Feet _____ Inches
Fresh water 40 Feet _____ Salt Water _____ Feet _____
Producing Sand Gordon Depth 2553-2570'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			Surface	1 594'		
Injun			1594	1800'		
Shale			1800	2196'		
Berea			2196'	2212'		
Shale			2212'	2245'		
Gordon			2245'	2574'		
Shale			2574'	2700'	T.D.	

MAR 9 1981

* Indicates Electric Log tops in the remarks section

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

Date 1/20/81 1981

APPROVED Berea Oil and Gas Corp. Owner

By *W. J. Schumaker* Vice Pres.

(7110)



RECEIVED

APR 30 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Lonnie R. Tanner
Address Rt. # 1, Waverly, W. Va.
Mineral Owner Lonnie R. Tanner et al.
Address _____
Coal Owner same as mineral owner
Address _____
Coal Operator _____
Address _____

DATE April 30, 1980
Company Berea Oil & Gas Corp.
Address See well operator below
Farm Tanner Acres 40
Location (waters) Slate Run
Well No. # 2 Elevation 870
District Union County WOOD
Quadrangle Valley Mills

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 1-13-81

Robert F. Hill

Deputy Director - Oil & Gas Division

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

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 April 2 1980 by Lonnie Tanner made to Energy Unlimited, Inc. and recorded on the 3rd day of April 1980 in Wood County, Book 735 Page 615

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

Address
of
Well Operator

Very truly yours, Mark Schumacher
(Sign Name) *Mark Schumacher*
Well Operator
652 Empire Bank Building
Fourth & Main Streets
Street
Clarksburg,
City or Town
W. Va.
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.

BLANKET BOND

47-107-1019

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 _____ NAME Mark Schumacher
 ADDRESS _____ ADDRESS Clarksburg, W. Va.
 TELEPHONE _____ TELEPHONE 304-624-6429
 ESTIMATED DEPTH OF COMPLETED WELL: 2800' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL XX GAS XX COMB. XX 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	Surface
7			
5 1/2			
4 1/2 <u>XX</u>	T. D.	T. D.	400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER 1500 FEET
 APPROXIMATE COAL DEPTHS N. A.
 IS COAL BEING MINED IN THE AREA? None 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