

B-1

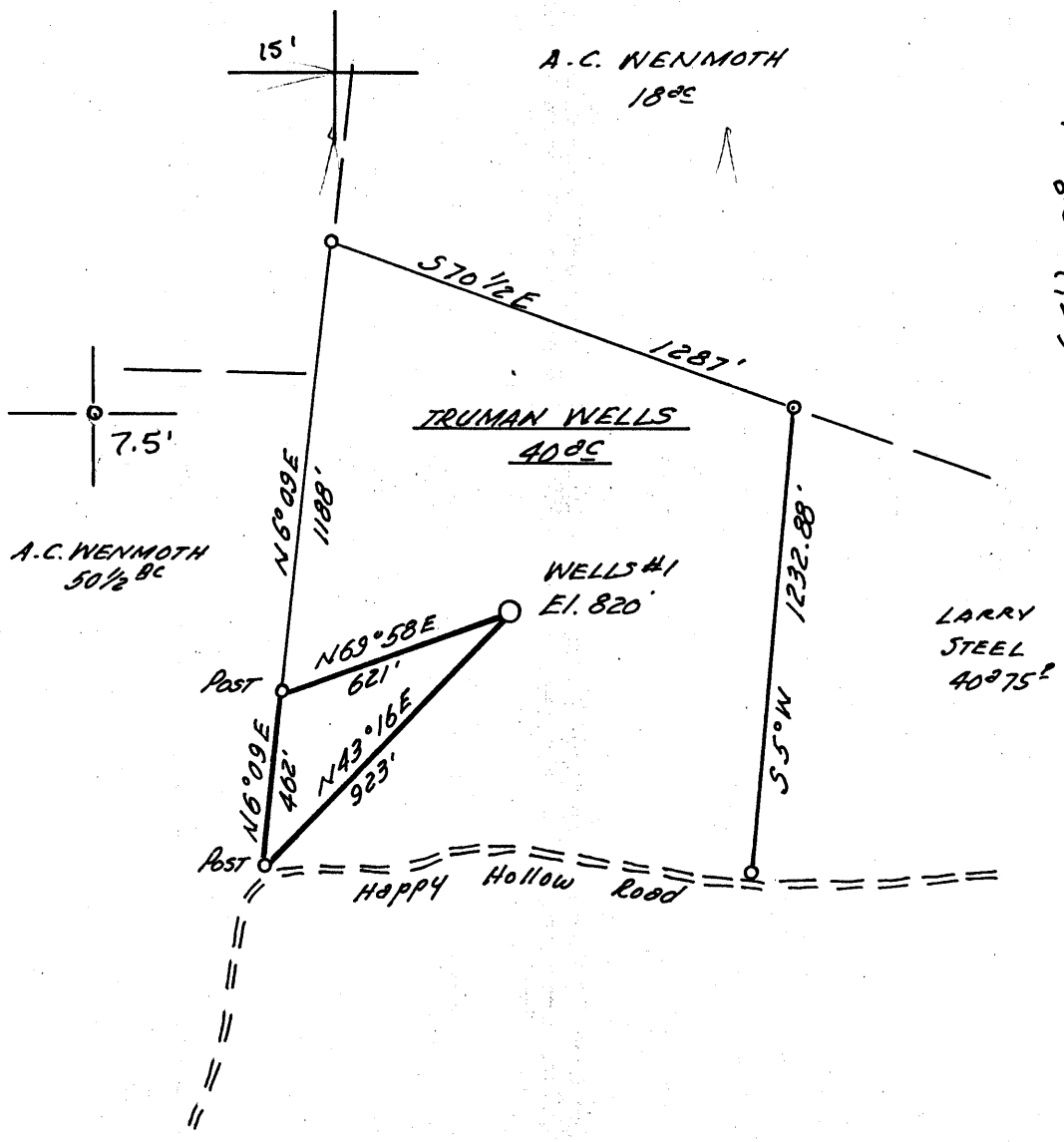
10 5 7 80 10.800'

LATITUDE 39°20'

LONGITUDE 81°22'30"

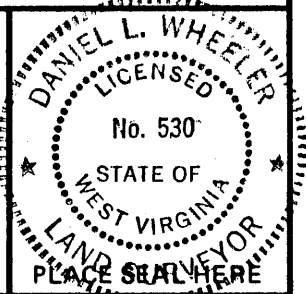
5.850'

NORTH



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION BM AT JCT. RT 31 & 3 1/2 - ELEV. 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) Daniel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. 530



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE APRIL 30, 1980 19 80  
 OPERATOR'S WELL NO. WELLS #1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1021-P  
 STATE COUNTY PERMIT  
PL. CANCELLED

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 820' WATER SHED CARPENTER RUN  
 DISTRICT UNION COUNTY WOOD  
 QUADRANGLE VALLEY MILLS 7.5 MARIETTA 15'  
 SURFACE OWNER TRUMAN WELLS ACREAGE 40<sup>ac</sup>  
 OIL & GAS ROYALTY OWNER TRUMAN WELLS LEASE ACREAGE 40<sup>ac</sup>  
 LEASE NO. \_\_\_\_\_

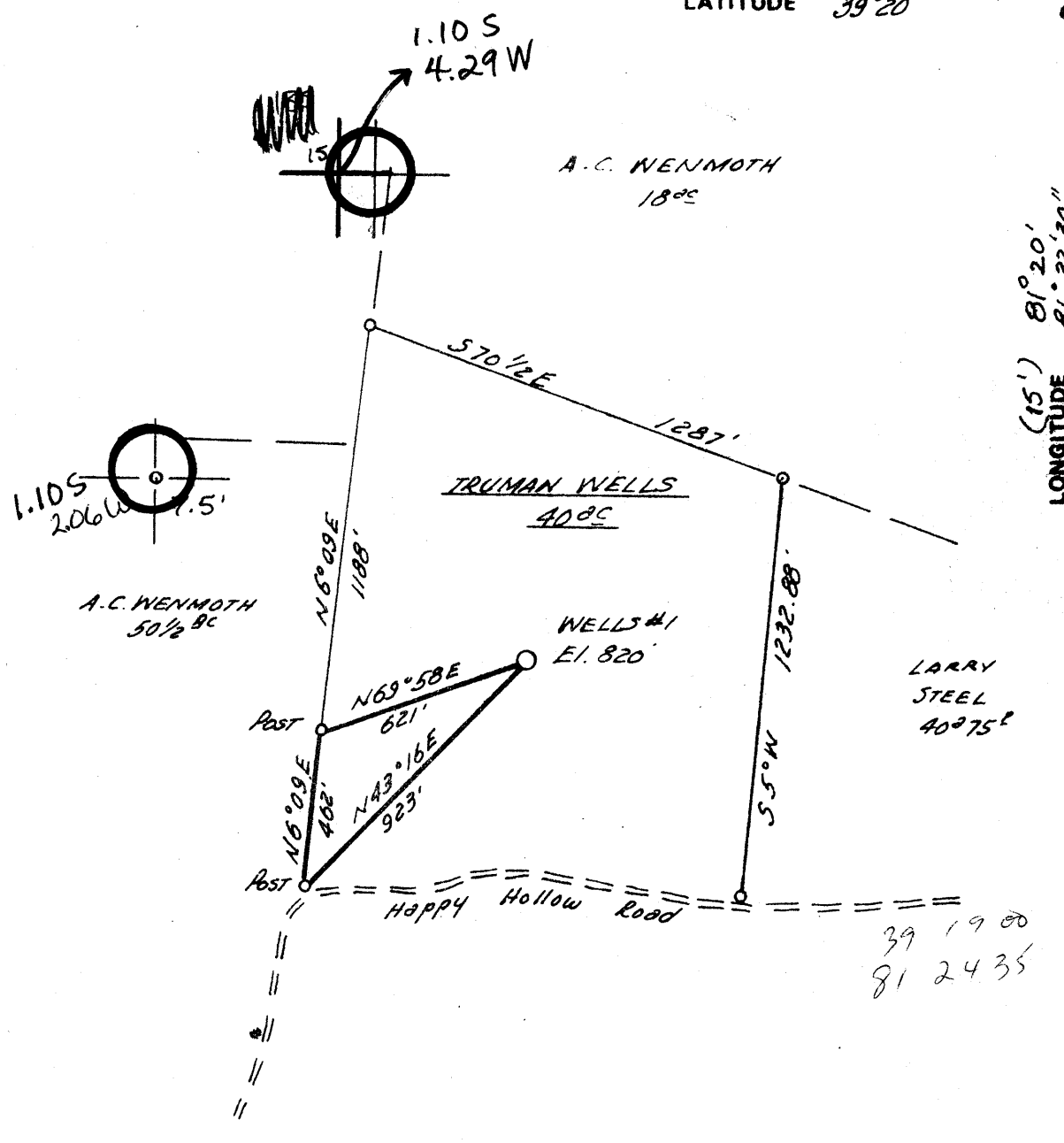
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION GORDON ESTIMATED DEPTH 2800'  
 WELL OPERATOR NRM Petroleum Corp. DESIGNATED AGENT MARK SCHUMACHER  
 ADDRESS P.O. Box 816 ADDRESS ROOM 652 EMPIRE BANK BLDG.  
Buckhannon W. Va. 26201 CLARKSBURG, W. VA. 26301

MAR 16 1987

NORTH

LONGITUDE 81° 20' (15') 81° 22' 30"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION BM AT JCT. RT 31 5/12 - ELEV. 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) Daniel L. Mueller  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE APRIL 30, 1980, 19 80  
 OPERATOR'S WELL NO. WELLS #1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1021  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 820' WATER SHED CARPENTER RUN  
 DISTRICT UNION COUNTY WOOD  
 QUADRANGLE VALLEY MILLS 7.5 MARIETTA 15' SC  
 SURFACE OWNER TRUMAN WELLS ACREAGE 40 ac  
 OIL & GAS ROYALTY OWNER TRUMAN WELLS LEASE ACREAGE 40 ac  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X 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 GORDON ESTIMATED DEPTH 2800'  
 WELL OPERATOR BEREA OIL & GAS CORP. DESIGNATED AGENT MARK SCHUMACHER  
 ADDRESS 901 CHEMICAL BANK BLDG - 69 DELAWARE AVE ADDRESS ROOM 652 EMPIRE BANK BLDG. BUFFALO, N.Y. 14202  
CLARKSBURG, W. VA. 26301



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED  
FEB 17 1981  
OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle Valley Mills

Permit No. 47-107-1021

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

Company Berea Oil & Gas Corp.  
Address 652 Empire Bank Bldg. Clarksburg WV  
Farm Wells Acres 40  
Location (waters) Worthington Creek  
Well No. 1 Elev. 820  
District Union County Wood  
The surface of tract is owned in fee by \_\_\_\_\_  
Truman Wells  
Address Rt. 1, Waverly, WV  
Mineral rights are owned by same  
Address \_\_\_\_\_  
Drilling Commenced 1/6/81  
Drilling Completed 1/11/81  
Initial open flow --- cu. ft. --- bbls.  
Final production 53.73M cu. ft. per day --- bbls.  
Well open 4 hrs. before test 420 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	270	90 sks.
7			
5 1/2			
4 1/2	2585	2585	230 sks.
3			
<del>2</del> 1 1/2"		2147'	
Liners Used			

Well treatment details: Attach copy of cementing record.  
1/19/81 Berea 2136-2156 (14 shots) 168,000 SCF N<sub>2</sub> 735 bbls. water  
150 sks. 80/100 and 400 sks. 20/40 sand. 54 MCF  
Gordon 2506-2521 (20 shots) 176,000 SCF N<sub>2</sub> 750 bbls. water  
150 sks. 80/100 and 450 sks. 20/40 sand

Coal was encountered at --- Feet -- Inches  
 Fresh water 40 Feet -- Salt Water -- Feet --  
 Producing Sand Berea & Gordon Depth 2136-<sup>54</sup> and 2506' <sup>25</sup>

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			Surface	1530		
Injun			1530	1743		
Sand and Shale			1743	2134		
Berea			2134	2158		
Sand and Shale			2158	2492		
Gordon			2492	2525		
Sand and Shale			2525	2683		
			TD	2683'		



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

APR 30 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.

Surface Owner Truman Wells  
Address Rt. # 1, Waverly, W. Va.  
Mineral Owner same  
Address \_\_\_\_\_  
Coal Owner same  
Address \_\_\_\_\_  
Coal Operator same  
Address \_\_\_\_\_

DATE April 30, 1980  
Company Berea Oil & Gas Corp.  
Address See well operator below  
Farm Wells Acres 40  
Location (waters) Worthington Creek  
Well No. # 1 Elevation 820  
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.

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

*Robert H. [Signature]*

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 October 10 19 79 by Truman Wells made to Energy Unlimited, Inc. and recorded on the 13 day of December 19 79 in Wood County, Book 731 Page 633

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 Bldg.  
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 of found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET-BOND

47-107-1021

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 1-304-624-6429  
 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>	TD	TD	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? 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