

15' 39' 20"

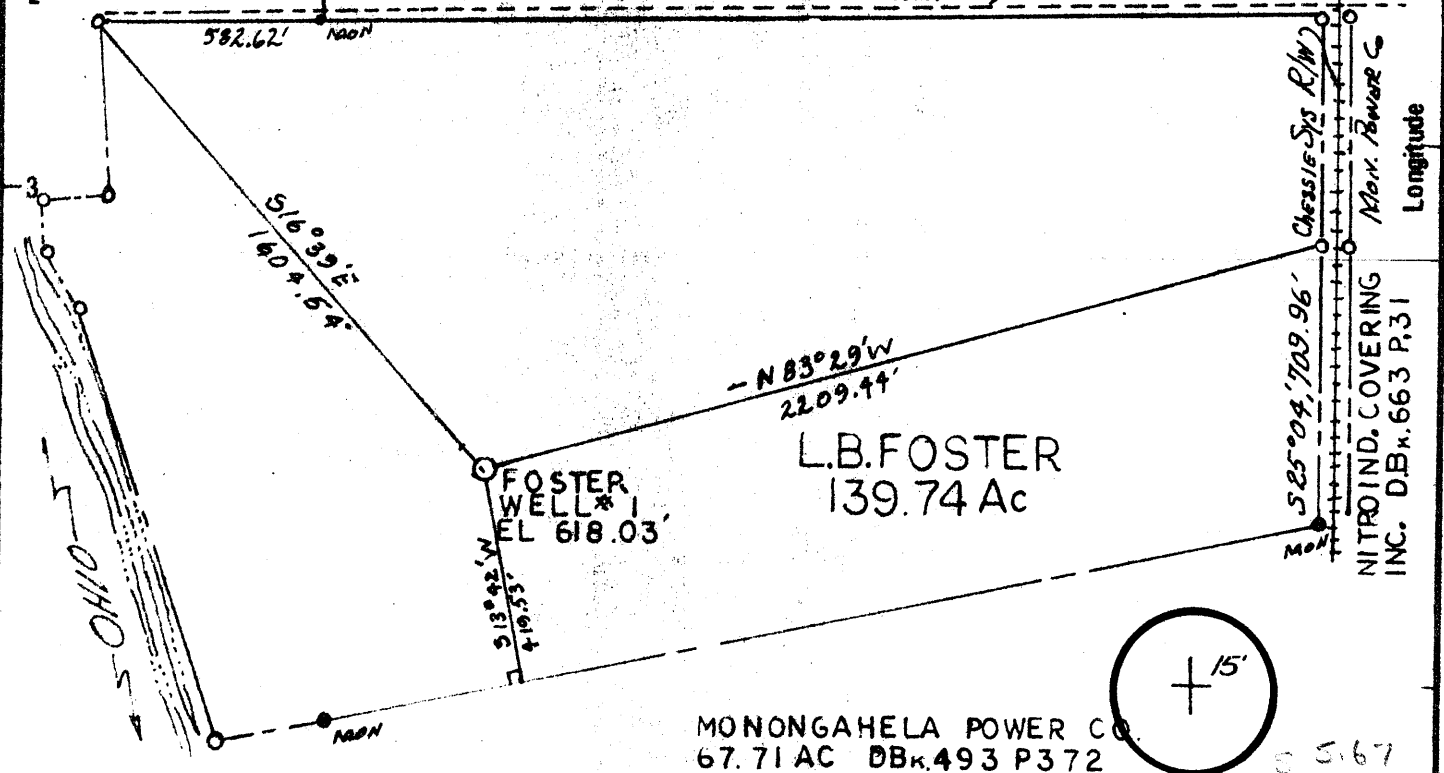
Latitude 39° 17' 30"

W 6700'
S 14650'

1
UNITED STATES
OF AMERICA
DBK. 158 P 556

BORG WARNER CORP.
49.01 AC DBK. 579 P 610

N65°42'W CORRECTED TO MATCH B.W.
— N65°39'W 3160' GOVT RD 7



Minimum Error of Closure 1 IN 200
Source of Elevation BORG WARNER CORP. MON. #1 EL 644.337'

New Location
Drill Deeper
Abandonment
11/ /79

"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."

Company L.B. FOSTER CO.
Address PO BOX 47367, DORAVILLE GA. 30340
Farm L.B. FOSTER CO
Tract EFG Acres 139.74 Lease No. _____
Well (Farm) No. 1 Serial No. _____
Elevation (Spirit Level) 618.03' SW
Quadrangle LITTLE HOCKING 7 1/2 PARKERSBURG 15'
County WOOD District LUBECK
Engineer [Signature]
Engineer's Registration No. WVA # 5043
File No. _____ Drawing No. _____
Date APR 17, 1977 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. W00-769-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
— Denotes one inch spaces on border line of original tracing.

DEC 6 1979
47-107

15' 39" 20'

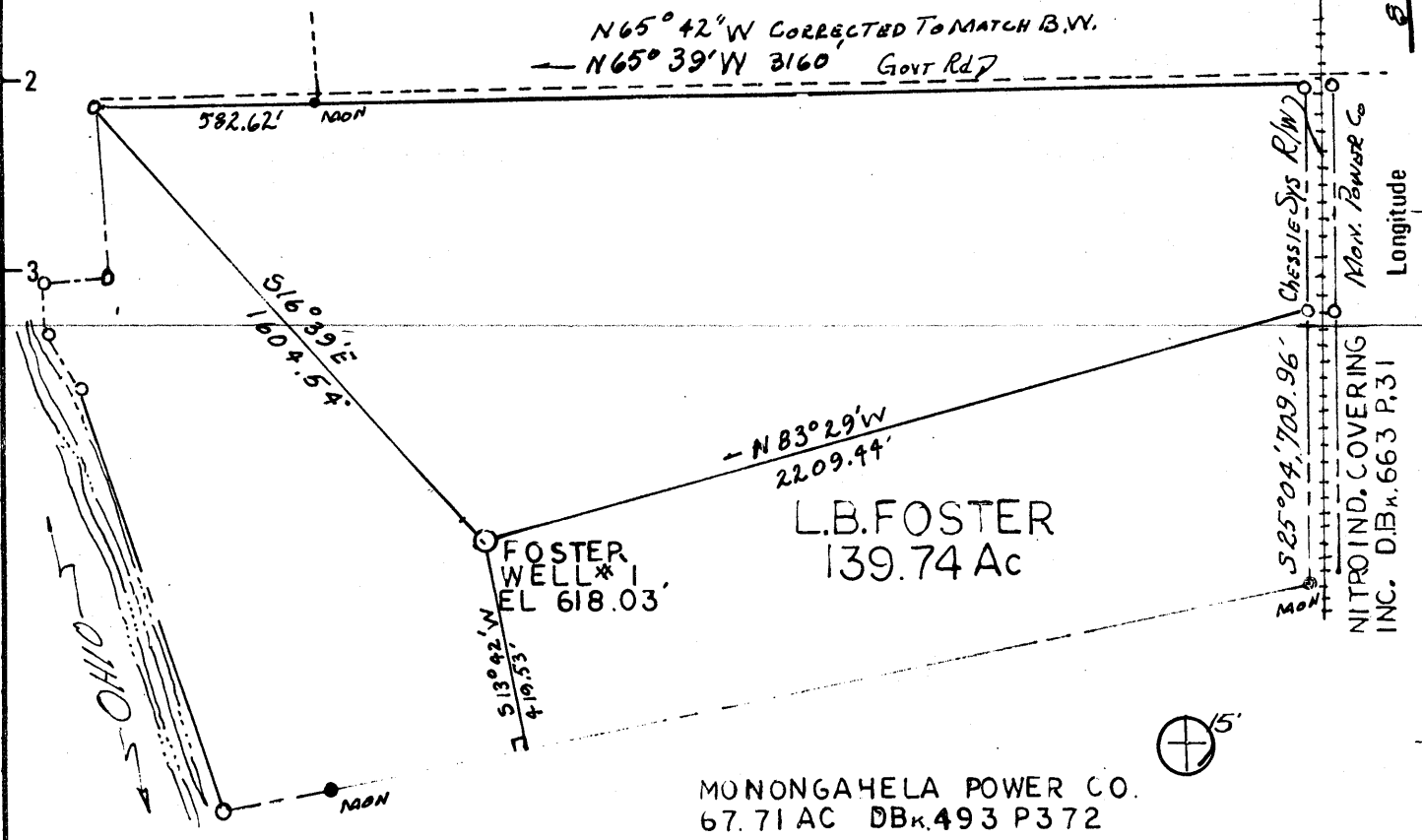
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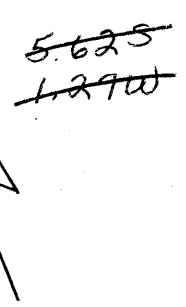
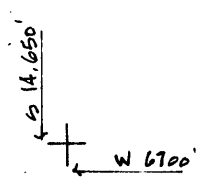
BORG WARNER CORP.
49.01 AC DBk. -579 P 610

UNITED STATES OF AMERICA
DBk. 158 P 556

N 65° 42' W CORRECTED TO MATCH B.W.
N 65° 39' W 3160' GOVT RD



MONONGAHELA POWER CO.
67.71 AC DBk. 493 P 372



New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure 1 IN 200 Source of Elevation BORG WARNER CORP. MON. #1 EL 644.337' "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."
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Company L.B. FOSTER CO.	
Address PO BOX 47367 DORAVILLE GA. 30340	
Farm L.B. FOSTER CO.	
Tract EFG	Acres 139.74 Lease No. _____
Well (Farm) No. 1	Serial No. _____
Elevation (Spirit Level) 618.03'	SW
Quadrangle LITTLE HOCKING 7 1/2 PARKERSBURG 15'	
County WOOD	District LUBECK
Engineer _____	
Engineer's Registration No. W.V. # 5043	
File No. _____	Drawing No. _____
Date APR 17, 1977	Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. **W00-769**

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-107



APR 2 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 12, 1977

Surface Owner L. B. Foster Company
Address Rt. #1, Washington, WV 26181

Company L. B. Foster Company
Address Rt. #1, Washington, WV 26181

Mineral Owner L. B. Foster Company
Address Rt. #1, Washington, WV 26181

Farm _____ Acres 137
Location (waters) Adjoins Ohio River to the West

Coal Owner None
Address _____

Well No. 1 Elevation 630
District Lubeck County Wood

Coal Operator None
Address _____

Quadrangle Little Hocking

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All operations 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 8-25-77.

INSPECTOR Paul Goodnight
TO BE NOTIFIED _____

ADDRESS Smithville, W.Va.

PHONE 477-2455

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 March 14 19 77 by American Climax Corp. made to L. B. Foster and recorded on the 15 day of March 19 77 in Wood County, Book 683 Page 317

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,
(Sign Name) Carl A. Miller
Well Operator

Route #1
Street
Washington, West Virginia 26181
City or Town
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.

BOND DRILL

WOOD-769 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 Carl A. Miller

47-107

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Elenn L. Haught & Sons NAME Carl W. Miller
 ADDRESS Box 2 ADDRESS Rt. #1, Washington, WV 26181
 TELEPHONE 1-304-477-5555 TELEPHONE 1-412-923-2121
 ESTIMATED DEPTH OF COMPLETED WELL: 4400 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS X COMB. _____ 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 16"	Conductor	60'	None
13 - 10 13"	Fresh water string	200'	Surface
9 - 5/8			
8 - 5/8 8 5/8"	Water string (Berea)	1900'	400'
7			
5 1/2			
4 1/2 4 1/2"	Long string	4300'	600'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET _____ SALT WATER _____ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 25

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

Quadrangle Little Hocking
WOOD-
Permit No. W-769

Company L. B. Foster Company
Address Rt. #1, Washington, WV 26181
Farm L. B. Foster Company Acres 137
Location (waters) Adjoins Ohio River to West
Well No. 1 Elev. 630
District Lubeck County Wood
The surface of tract is owned in fee by L. B. Foster Company
Address Rt. #1, Washington, WV
Mineral rights are owned by same
Address
Drilling Commenced 5/21/77
Drilling Completed 5/29/77
Initial open flow 300,000 cu. ft. 1 bbls.
Final production 200,000 cu. ft. per day (1) bbls.
Well open 10 hrs. before test 1000 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size <u>x20x16</u>			
Cond. <u>13-10X</u>	<u>80'</u>	<u>80'</u>	
<u>9x8x 10"</u>	<u>250'</u>	<u>250'</u>	Surface
<u>8 5/8</u>			
<u>7</u>	<u>1830'</u>	<u>1830'</u>	Surface
<u>5 1/2</u>			
<u>4 1/2</u>	<u>4260'</u>	<u>4260'</u>	600' fill up
<u>3</u>			
<u>2</u>			
Liners Used			

Well treatment details: Hydraulically fractured with 949 barrels water w/ additives, 42,500 lbs. of 20/40 sand

Attach copy of cementing record.

Coal was encountered at None Feet Inches
Fresh water 100 Feet Salt Water 1430 Feet
Producing Sand Oriskany Depth 4090-4110

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	45		
Sand			45	55		
Slate			55	69		
Red Rock			69	105		
Slate			105	182		
Sand			182	194		
Red Rock			194	241		
Slate			241	273		
Red Rock			273	297		
Slate			297	309		
Red Rock			309	335		
Slate			335	368		
Sand			368	400		
Slate			400	422		
Lime			422	458		
Slate			458	497		
Sand			497	508		
Red Rock			508	541		
Slate			541	593		
Sand			593	622		
Lime			622	686		
Slate			686	704		
Sand			704	722		
Slate & Shale			722	794		

RECEIVED
AUG 25 1977
W. VA. OIL & GAS
CONSERVATION COMMISSION

4000
63

(over)

Indicates Electric Log tops in the remarks section.

deep OCT 5 1977

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Lime			794	810		
Shale			810	880		
Sand			880	902		
Lime			902	914		
• Red Rock			914	935		
Sand			935	942		
Lime			942	968		
Shale			968	1231		
Shale			1231	1238		
Lime			1238	1266		
Sand			1266	1272		
Shale			1272	1687		
Sand			1687	1695		
Shale			1695	2050		
Sand - Berea			2050	2070		
Shale - Brown			2070	4070		
Sand			4090	4110		
Lime HELDERBERG			4110	4295		

TD 4295

Date August 16 19 77

APPROVED L. B. Foster Company Owner

By Carl W. Miller

(Title)
Carl W. Miller, Operator