



1.24 S
0.44 W

LONGITUDE 81° 00'

Minimum Error of Closure 1 in 200'

Source of Elevation U.S.G.S. elev at mouth of Buffalo Run
= 649

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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.

Signed: [Signature]
Squares: N E W

Company LAUDERMAN GAS & OIL DRILLING
 Address 110 Main St. Paden City, West Va.
 Farm R.C. Brooks and Laura Brooks
 Tract _____ Acres 120 Lease No. _____
 Well (Farm) No. No. 1 Serial No. _____
 Elevation (Spirit Level) 711
 Quadrangle St. Marys NE
 County Tyler District Union
 Engineer [Signature]
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 22, 1976 Scale 1" = 40 P = 660'

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

WELL LOCATION MAP
 FILE NO. TYL-477

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

47-095



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

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

Quadrangle Union District

Permit No. Tyler-477

Company <u>Lauderman Oil & Gas Drilling</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>129 N. 4th Avenue - Paden City, W. Va.</u>				
Farm <u>Brooks, R.C.</u> Acres <u>120</u>				
Location (waters) <u>Big Buffalo</u>				
Well No. <u>1</u> Elev. <u>711</u>				
District <u>Union</u> County <u>Tyler</u>				
The surface of tract is owned in fee by <u>R. C. & Laura Brooks</u>				
Address <u>RFD, Friendly, West Vir.</u>				
Mineral rights are owned by <u>Same</u>				
Address _____				
Drilling Commenced <u>May 7, 1976</u>				
Drilling Completed <u>June 11, 1976</u>				
Initial open flow _____ cu. ft. <u>2 1/2</u> bbls.				
Final production _____ cu. ft. per day <u>20</u> bbls.				
Well open _____ hrs. before test _____ RP.				
Well treatment details:	Size			
	20-16			
	Cond.			
	13-10"			
	9 5/8			
	8 5/8			
	7	411	411	Top Surface
	5 1/2			
	4 1/2	711	711	Approx. 260 Ft Fill Up
	3			
	2	698	698	
	Liners Used			

Attach copy of cementing record.

Fractured with 193 bbls Oil & 7,500 lbs Sand--Perforated 688-694
13-50 Holes

20 BOPD

Coal was encountered at No Coal Feet _____ Inches _____
 Fresh water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Cow Run Depth ~~682-697~~ 688-694

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	8		
Lime, Shell			8	14		
Shale			14	25		
Red Rock			25	40		
Sand			40	90		
Shale, Gray			90	105		
Sand			105	135		
Shale			135	140		
Lime			140	150		
Red Rock			150	165		
Lime Shells			165	220		
Red Rock			220	230		
Shale			230	275		
Red Rock			275	280		
Shale, Gray			280	317		
Lime			317	340		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ²⁴	Bottom Feet	Oil, Gas or Water	* Remarks
Shale, Brown			340	360		
Shale, Gray			360	390		
Red Roak			390	400		
Lime			400	425		
Red Rock			425	440		Set 7" at 411--8" Cemented
Lime			440	455		to Surface
Shale			455	470		
Red Rock(Big Red)			470	510		
Shale			510	525		
Red Shale			525	540		
Shale, Gray			540	560		
Red Rock			560	585		
Slate, White			585	620		
Shale			620	640		
Red Rock			640	657		
Slate, White			657	680		
Lime			680	682		
Sand--Cow Run			682	697		
Shale			697	711		TOTAL DEPTH

Date July 30, 1976

APPROVED

Owner

Phillip M. Morgan, Agent
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 1 1976

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 3/25/76

Surface Owner R.C. & Laura Brooks
Address RFD 1 Box 69, Friendly, W. Va.

Company Lauderman Oil & Gas Drilling
Address 110 W. Main Street, Paden City

Mineral Owner Same
Address Same

Farm R.C. Brooks Acres 120

Coal Owner Same
Address same

Location (waters) Buffalo Creek

Coal Operator Same
Address Same

Well No. 1 Elevation 711

District Union County Tyler

Quadrangle St. Marys

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 8-2-76
Robert T. Bell

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Donald Corner
PH: 428-8172 ADDRESS Mineral Wells W. Va.

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 Feb. 19, 19 76 by R.C. & Laura Brooks & others made to Lauderman Oil & Gas and recorded on the Not day of Recorded 19 , in County, Book Page

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,

(Sign Name)

Robert T. Bell
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

110 W. Main Street
Street

Paden City
City or Town

West Virginia 26159
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

Inpl-477 PERMIT NUMBER
47-095

**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 Lauderman Oil & Gas Drilling NAME Phillip Morgan
 ADDRESS 110 W. Main, Paden City, W.Va. ADDRESS RFD Box 164 Friendly, W.Va.
 TELEPHONE 337-2215 TELEPHONE 657-2020
 ESTIMATED DEPTH OF COMPLETED WELL: 900 ROTARY _____ CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Cowrun
 TYPE OF WELL: OIL _____ GAS _____ 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			
13 - 10			
9 - 5/8			
8 - 5/8			<i>Surface</i>
7	300' <i>410'</i>	<i>410'</i>	Cement top to bottom
5 1/2			
4 1/2	Run through sand & perforate		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 380
 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. **Performance Bond Blanket**

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