



ACCURACY: 1P / 200P

Source of Elevation ROAD AT PIKE FORK (887')

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.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Chet Waterman

Company WILLARD E. FERRELL
 Address PHILADELPHIA, PA.
 Farm VIRGIL THORN
 Tract _____ Acres 44 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1122'
 Quadrangle CENTERPOINT EC
 County DODDRIDGE District McCLELLAN
 Engineer CHET WATERMAN
 Engineer's Registration No. 8788
 File No. 71003-392 Drawing No. _____
 Date 9/24/71 Scale 1" = 20P

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

WELL LOCATION MAP
 FILE NO. DOD-1734

+ 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.

47 017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 4

37-30
6-21
②

Rotary _____ Oil _____
Cable Gas No. 1
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Centerpoint

Permit No. DCD 1734

Company <u>Willard E. Ferrell, Agent</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 5056, Philadelphia, Pa. 19111</u>				
Farm <u>Virgil Thorn</u> Acres <u>44</u>	Size			
Location (waters) <u>Fike Fork</u>	20-16	16	16	
Well No. <u>1</u> Elev. <u>1122</u>	Cond.			
District <u>McClellan</u> County <u>Doddridge</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8	342	342	
Address <u>Charleston, W.Va</u>	8 5/8	1212		
Mineral rights are owned by <u>John A. Statler, et al</u>	7			
Address <u>Fennsboro, W.Va.</u>	5 1/2			
Drilling Commenced <u>June 26, 1972</u>	4 1/2	2125	2125	
Drilling Completed <u>Aug 1, 1973</u>	3			
Initial open flow <u>30M</u> cu. ft. _____ bbls.	2			
Final production <u>959M</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>12</u> hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

Waterfrac. 500 Gal. Acid- 700 bbls. Fluid- 40000 sand

Coal was encountered at 765 Feet _____ Inches
Fresh water 215 Feet _____ Salt Water 770 Feet _____
Producing Sand Big Injun Depth 2080-2150

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	15		
Red Roock			15	30		
Sand			30	45		
Red Rock			45	100		
Slate & Shells			100	120		
Sand Yellow			120	130		
Red Rock			130	160		
Slate & Shells			160	200		
Sand			200	230		
Black Slate			230	237		
Slate & Shells			237	260		
Red Rock			260	355		
Alast & Shells			355	430		
Sand			430	490		
Slate & Shells			490	510		
Slate & Lime			510	620		
Lime			620	715		
Sand			715	740		
Coal & Black Slate			740	755		
Slate & Shells			755	780		
Sand			780	805		
Slate & Shells			805	840		
Sand			840	870		

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(over)

* Indicates Electric Log tops in the remarks section.

NOV 27 1973

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	* Remarks
Slate & Shells			870	900		
Red Slate			900	925		
Sand			925	940		
Slate & Lime			940	975		
Red Rock			975	1010		
Grey Shale			1010	1055		
Red Rock			1055	1075		
Slate & Shells			1075	1150		
Black Slate			1150	1215		
Slate & Shells			1215	1230		
Sand			1230	1250		
Slate & Shells			1250	1330		
Gritty Lime			1330	1430		
Slate & Shells			1430	1555		
Sand			1555	1615		
Slate & Shells			1615	1725		
Sand			1725	1760		
Black Slate & Shells			1760	1875		
Lime			1875	1900		
Red Slate & Shells			1900	1970		
Little Lime			1970	1993		
Slate-Pencil Cave-			1993	1998		
Big Lime			1998	2078		Show of oil 2025
Sand Keener			2078	2094		
Sand Big Injun			2094	2167		Gas #2001 to 2140
Slate			2167	2196		Total Depth

Date Nov. 5, 1973

APPROVED Willard E. Ferrell, Agent Owner

By Willard E. Ferrell, Agent
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JUN 12 1973

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 June 8, 1973

Surface Owner Virgil Thorn

Company Willard E. Farrell, Agent

Address Charleston, W. Va.

Address P.O. Box 5056, Philadelphia, Pa. 19111

Mineral Owner Elton J. Ashcraft, Agent (et-al)

Farm Virgil Thorn Acres 44

Address St. 1 Colliery, W. Va. 26035

Location (waters) Fike Fork / Robinson Fork

Coal Owner _____

Well No. 1 Elevation 1122

Address _____

District McClellan County Reddridge

Coal Operator _____

Quadrangle Centerpoint

Address _____

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 10-12-73.

Robert K. Bell
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED William Blosser
Colfax, W.Va. PH: 363-9105

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 20th November 1972 by Elton Ashcraft made to Farm Resources Corp and recorded on the 10 day of March 1973, in Reddridge County, Book 96 Page 720 lease assigned to Willard E. Farrell, May 22, 1973
 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) Willard E. Farrell
Well Operator

Address of Well Operator
P.O. Box 5056 Street
Philadelphia City or Town
Pa. - 19111 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

DOD-1734

PERMIT NUMBER

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

PROPOSED WORK ORDER TO RE DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Harry Elder NAME S.C. Gurrey
 ADDRESS Rt. 1 Cairo, W. Va. ADDRESS Fulman, W. Va. 26021
 TELEPHONE 614-374-6691 TELEPHONE 609-2103
 ESTIMATED DEPTH OF COMPLETED WELL: 2000 ft ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 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	20	20	
13 - 10	200	200	80 BAGS
9 - 5/8	1500		
8 - 5/8	1500	1500	90 BAGS
7			
5 1/2	2000	2000	70 BAGS
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ 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