

Latitude $38^{\circ} 30'$

Longitude $81^{\circ} 45'$

OTTO CUNNINGHAM

Fence Corner. C. O. Pt.

O. W. McCLANAHAN

LOU IDA EADS

E. F. McCLANAHAN

9455-P.1.

Hickory In Fence Corner

R. F. LANHAM

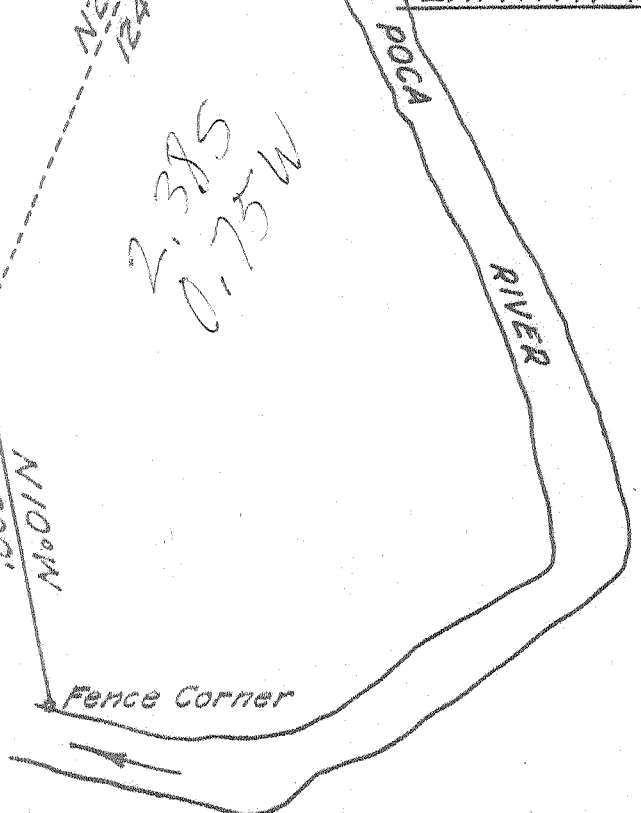
Iron Pin In Fence Corner

H. V. LANHAM

BENCH MARK DESCRIPTION

U.S.G.S. Standard Disc Stamped
T.T. 29 G. & G. Set In Concrete Monument
On West Side Of Pocatolico River
Road. Elev. 605.00'

DEGREE OF ACCURACY
One Part In 200



- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- 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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.
PROVEN ELEVATION

Company UNITED FUEL GAS CO.
Address CHARLESTON, W. VA.
Farm E. F. McCLANAHAN, ET. AL.
Tract _____ Acres 270.8 Lesse No. 50956 ET. AL.
Well (Farm) No. _____ Serial No. 9455-P.1.
Elevation (Spirit Level) 562.49-597.82'
Quadrangle ST. ALBANS NE
County PUTNAM District POCATOLICO
Engineer O. J. Smith
Engineer's Registration No. 2712
File No. 54-67 Drawing No. _____
Date NOV. 6, '67 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. PUT-739

+ 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.

Deep Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle St. Albans
Permit No. PUT-739

WELL RECORD

Oil or Gas Well... Gas
(KIND)

Company <u>United Fuel Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P.O. Box 1273 Charleston, W. Va. 25325</u>				
Farm <u>E. F. McClanahan, et al</u> Acres. <u>270.8</u> Merged	Size			
Location (waters) <u>Poca River</u>	<u>16</u>			Kind of Packer
Well No. <u>9455 P. I.</u> Elev. <u>597.82'</u>	<u>3 5/8"</u>	<u>252' Cem. to surf.</u>		
District <u>Poca</u> County <u>Putnem</u>	<u>10</u>			Size of
The surface of tract is owned in fee by	<u>2 9-5/8"</u>	<u>1700' Cem. to surf.</u>		
Address	<u>2 7"</u>	<u>500' Cem. from 4300-</u>	<u>5245'</u>	Depth set
Mineral rights are owned by <u>Jewell F. McClanahan, et al</u>	<u>3 3/16</u>			
<u>Star Route, Box 39</u> Address <u>Poca, W. Va. 25159</u>	<u>4 1/2</u>			
Drilling commenced <u>Dec. 7, 1967</u>	<u>3</u>			Perf. top
Drilling completed <u>Dec. 21, 1967</u>	<u>2 1/2</u>		<u>5320'</u>	Perf. bottom
Date Shot From To	Liners Used			Perf. top
With				Perf. bottom

Open Flow 7/10ths Water in Inch Attach copy of cementing record.

 /10ths Merc. in Inch CASING CEMENTED SIZE No. Ft. Date

Volume 18,500,000 - Newburg Cu. Ft. Amount of cement used (bags)

Rock Pressure 1601 D.W. lbs. hrs. Name of Service Co.

Oil bbls. 1st 24 hrs. COAL WAS ENCOUNTERED AT FEET INCHES

WELL ACIDIZED (DETAILS) FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) 18,500 MCF

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water 45' 155' Feet 320' Salt Water 1105' Feet 1450'

Producing Sand Newburg Depth 5292

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Clay and Shale			0	75	Water at 45'		
Broken Sand			75	90			
Shale			90	107	Water increased at 155'		
Broken Sand			107	133			
Shale and Sand			133	180	Water at 320'		
Broken Sand			180	480			
Broken Sand & Shale			480	500	Water 1105' Salt		
Sand			500	585			
Sand & Shale			585	670	Salt water 1450'		
Shale			670	765			
Sand			765	815	Gas 5292' 140/10 Merc. 4" 7,326 M		
Shale and Sand			815	1005			
Sand			1005	1400	Test before fracture - 7,460 M		
Big Lime			1400	1590	Fractured Newburg 12-27-67 with 1,000 gallons mud acid, 30,000# 20-40 sand, 20,120 gallons water.		
Sand			1590	1625			
Sand & Shale			1625	1660			
Shale and Sandstone			1660	4475	Final test after fracture - 18,500 M		
Corniferous Lime			4475	4500			
Oriskany Sand			4560	4560			
Lime			4595	4755	Shut in 12-29-67 in 2-3/8" tubing.		
Shaly Lime			4955	5100			
Dolomite			5100	5291	LOGS RUN: 5288 5288		
Newburg			5291	5302	Gamma Ray 4560 613		
Dolomite			5302	5320	Density 7.24 4675		
Total Depth			5326'				

P. I. Card open hole production from 5286 to 5302 Newburg.