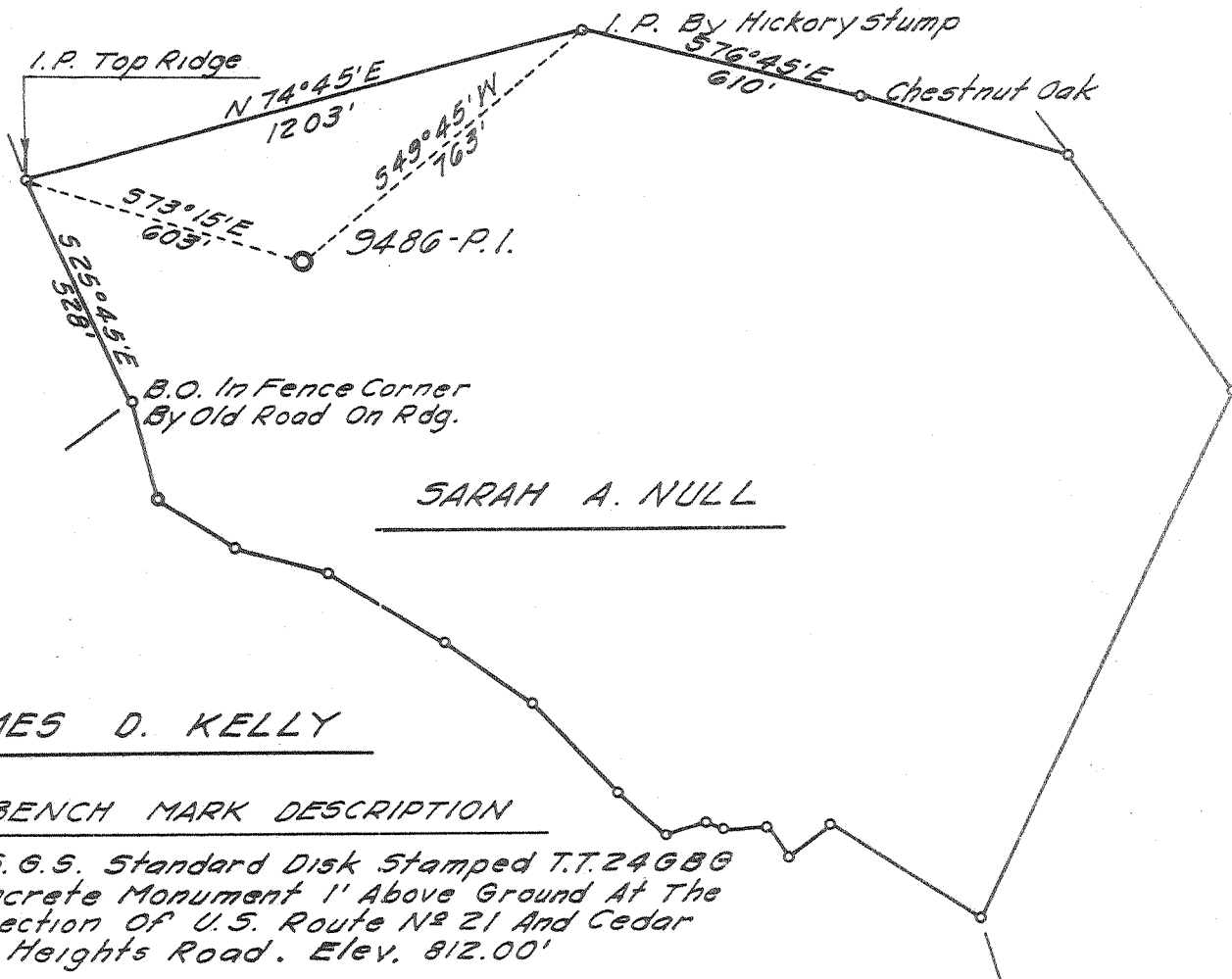


Latitude 38° 30'

Longitude 81° 40'

Wm. S. PUGH ET. AL.



SARAH A. NULL

JAMES D. KELLY

BENCH MARK DESCRIPTION

U. S. G. S. Standard Disk Stamped T.T. 24688  
 In Concrete Monument 1' Above Ground At The  
 Intersection Of U. S. Route No 21 And Cedar  
 View Heights Road. Elev. 812.00'

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** 812.00'

Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W. VA.  
 Farm SARAH A. NULL, ET. AL.  
 Tract \_\_\_\_\_ Acres 270 Lease No. 53845 ET. AL.  
 Well (Farm) No. \_\_\_\_\_ Serial No. 9486-P.I.  
 Elevation (Spirit Level) 821.28'  
 Quadrangle CHARLESTON, NW  
 County KANAWHA District UNION  
 Engineer O. S. Spinks  
 Engineer's Registration No. 2712  
 File No. 58-67 Drawing No. \_\_\_\_\_  
 Date FEB. 19, '68 Scale 1" = 400'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. KAN-2232

+ 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

WELL RECORD

Oil or Gas Well

Gas  
(KIND)

Quadrangle Charleston

Permit No. KAN-2232

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>Sarah A. Null, et al</u> Acres <u>290 Merger</u> Size				
Location (waters) <u>Martin Branch</u>	16			Kind of Packer
Well No. <u>9486 P.I.</u> Elev. <u>821.28'</u>	13 <u>3/8"</u>	<u>63'</u> Cemented from		<u>64'</u> to surface
District <u>Union</u> County <u>Kanawha</u>	10			Size of
The surface of tract is owned in fee by	<del>9-5/8"</del> <u>9-5/8"</u>	<u>1924'</u> Cemented from		Depth set
Address	6%	<u>1925</u> to surface		
Mineral rights are owned by <u>Sarah Ann Null, et al</u>	7" <del>xxxx</del>	<u>5595'</u> Cemented from		<u>5595'</u>
Route <u>4, Box 155</u> Address <u>Charleston, W.Va. 25312</u>				
Drilling commenced <u>3-20-68</u>	3			Perf. top
Drilling completed <u>3-26-68</u>	<u>23/8"</u> Tubing		<u>5616'</u>	Perf. bottom
Date Shot From To	Liners Used			Perf. top
With				Perf. bottom

Open Flow 1/10ths Water in          Inch  
         /10ths Merc. in          Inch  
 Volume 100,000,000 Newburg Cu. Ft.  
 Rock Pressure 2010 lbs.          hrs.  
 Oil          bbis., 1st 24 hrs.  
 WELL ACIDIZED (DETAILS)          FEET          INCHES          FEET          INCHES  
 WELL FRACTURED (DETAILS)          FEET          INCHES          FEET          INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbis.) 100,000 MCF  
 ROCK PRESSURE AFTER TREATMENT          HOURS  
 Fresh Water          Feet Salt Water          Feet  
 Producing Sand Newburg Depth         

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	20	Gas in Newburg Est.	45,000 Mcf	
Sand			20	73			
Red Rock and Sand			73	450			
Sand			450	1005	Test before fracture -	45,000 Mcf	
Salt Sand			1005	1615	Fractured Newburg 4-1-68	with 1,000 gals	
Lime - <u>Blue</u>			1615	1780	acid, 39,060 gallons fluid,	30,000#	
Injun Sand			1780	1860	20-40 sand.		
Shale			1860	2325	Final test after fracture-	100,000	
Berea			2325	2335	Mcf Four Point Potential Test		
Shale			2335	4790			
Corniferous Lime			✓4790	4878			
Oriskany			✓4878	4918			
Lime			4918	5400			
Dolomite			5400	5635			
Newburg			✓5635				
Total Depth			5638'				

Log Tops  
Onondaga 4740-4835  
Oriskany 4835-75  
Newburg 5534-99



AUG 5 1968