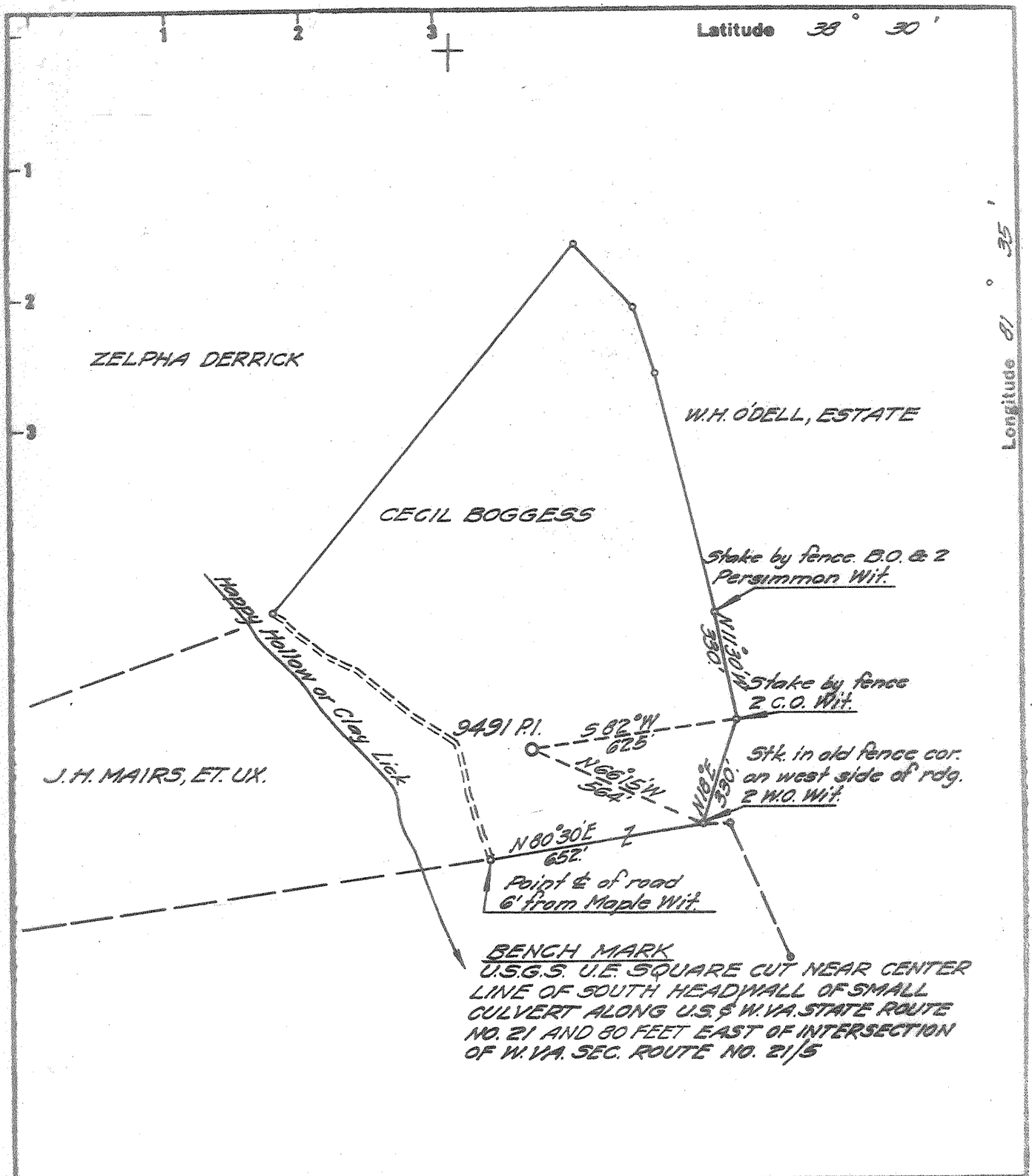
Plot ✓ Log ✓ Card ✓ CSD ✓ Mfl ✓



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 653.70'

Company UNITED FUEL GAS CO.
Address CHARLESTON W.VA.
Farm CECIL BOGGESS, ET. AL.
Tract _____ Acres 300.84 Lease No. 62475 ET.AL.
Well (Farm) No. _____ Serial No. 9491 P.I.
Elevation (Spirit Level) 637.84'
Quadrangle CHARLESTON N.C.
County KANAWHA District POCA
Engineer Adrian E. Knudsman
Engineer's Registration No. 2330
File No. 60-69 Drawing No. _____
Date JUNE 11, 1968 Scale 1"=400'

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

WELL LOCATION MAP

FILE NO. KAN-2276

+ 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.

BRUNING 44-560 JUL 8 1968 6-6 Rocky Fork 312 Deep Well (Newburg)

Ashland O.&R. - 10.557%
Commonwealth - 13.809%
A.L.D. - 9.150%

Form OG-10

Map Square 60-69

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Rotary ☒
Spudder ☐
Cable Tools ☐
Storage ☐

Quadrangle Charleston
Permit No. Kan-2276
Oil or Gas Well GAS (KIND)

Company United Fuel Gas Company
Address P.O. Box 1273, Charleston, W. Va.
Farm Cecil Boggess et al. Acres 300.54
Location (waters) Happy Hol. of Tupper Creek 849.84'KB
Well No. 9491 P.I. Elev. 837.84'
District Union Boca County Kanawha
The surface of tract is owned in fee by
Address
Mineral rights are owned by
Address
Drilling commenced June 29, 1968
Drilling completed July 8, 1968
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) Fractured Newburg 7-11-68 with 26,000# 20-40 sand, 778 bbls. water, 1,000 gallons acid
RESULT AFTER TREATMENT (Initial open Flow or bbls) 88,000 Mcf Four Point Potential Test 88,000,000
ROCK PRESSURE AFTER TREATMENT 1945# HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Newburg Depth 5696'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	250'	250'	
10 9 5/8"	1924'	1924'	Size of
8¼			
6⅝ 7"	5721'	5721'	Depth set
5 3/16			
4½			
3			Perf. top
2 3/8"	5825'	5825'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock & Sand			0	100			
Sand			100	260	5692	5692	
Sand & Shale			260	1245	4915	850	
Sand			1245	1630	777	-4842	
Lime - Big Lime			1630	1830			
Sand - Injun			1830	1860			
Shale			1860	2280			
Sand - Berea			2280	2320			
Shale			2320	4830			
Corniferous Lime			4830	4915			
Oriskany Sand			4915	4960	Show gas in Oriskany		
Shale & Lime			4960	5200	Show sulphur gas 5530'		
Lime			5200	5350	Gas 5692-5696' est. 35,000 M		
Dolomite			5350	5692			
Newburg			5692	5696			
Total Depth			5696'				

Test before fracture - 35 MMCF
Fractured Newburg
Final open flow - 88 MMCF Four Point
Rock Pressure 1945#

CASING POINTS:
13 3/8" 250' Cemented 125 sacks
9 5/8" 32# 1924' Cemented 100 sacks
7" 23 & 26# 5670' Cemented 150 sacks
2 3/8" 4.6# 5803'

JAN 1969 Received West Virginia Dept. of Mines

JAN 26 1969