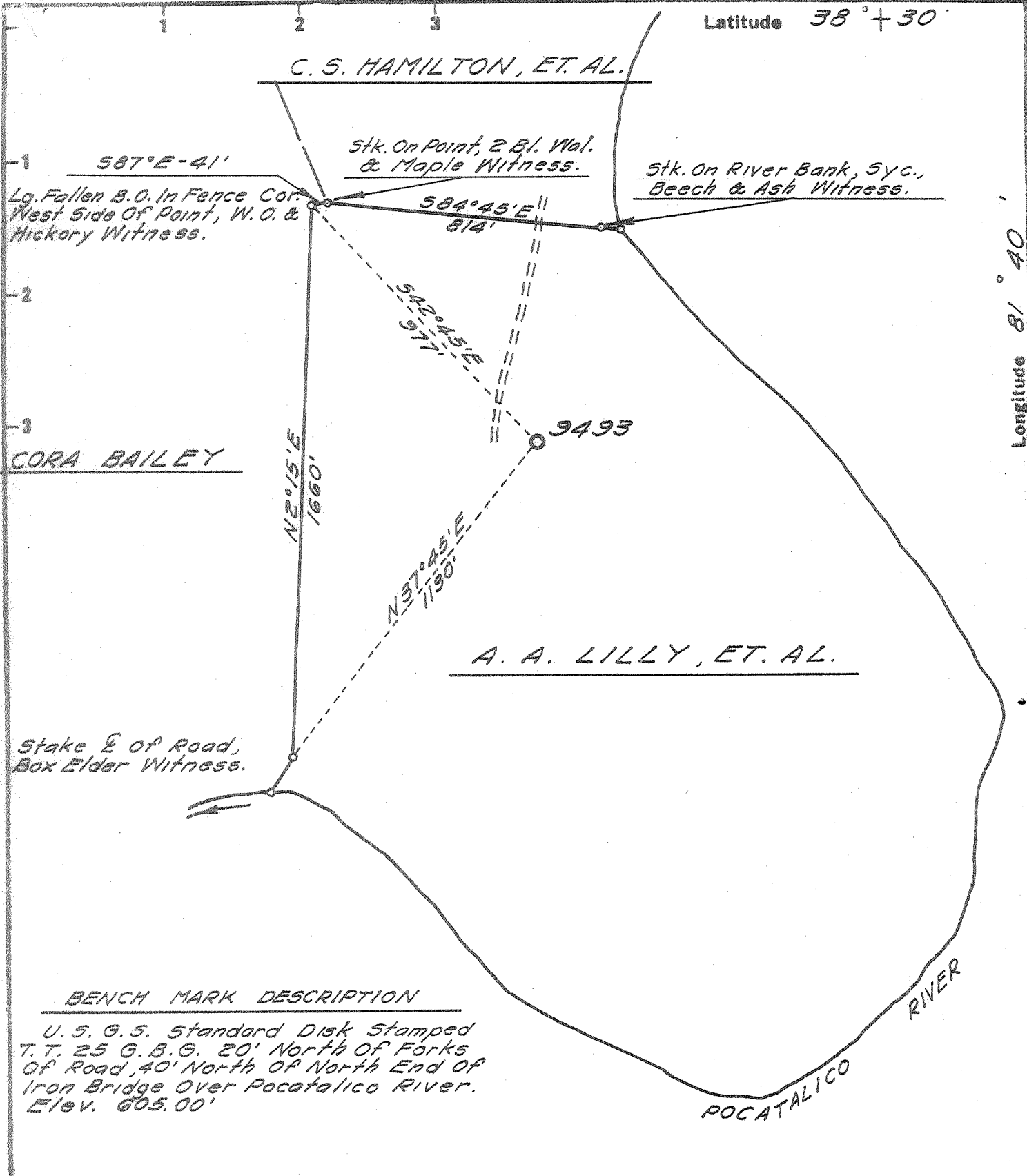


Latitude 38° + 30'



- 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.

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm A. A. LILLY, ET. AL.
 Tract _____ Acres 283.5 (Unit) Lease No. 48665 ET. AL.
 Well (Farm) No. _____ Serial No. 9493
 Elevation (Spirit Level) _____ 713.45'
 Quadrangle CHARLESTON NW
 County KANAWHA District UNION
 Engineer Clayton E. Hardman
 Engineer's Registration No. 2330
 File No. 58-69 Drawing No. _____
 Date JULY 9, '68 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-2284

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston

WELL RECORD

Permit No. KAN-2284

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>	Size			
Farm <u>A. A. Lilly, et al</u> Acres <u>283.5</u> Merger	16			Kind of Packer
Location (waters) <u>Pocatalico River</u>	13 <u>3/8</u>		<u>32'</u>	
Well No. <u>9493</u> Elev. <u>713.45'</u>	10			Size of
District <u>Union</u> County <u>Kanawha</u>	9-5/8" <u>1796'</u>	<u>Cemented with 500 sacks Poz</u>		<u>100 sacks neat</u>
The surface of tract is owned in fee by	6% 12-7" <u>5492'</u>	<u>Cemented with 150 sacks</u>		Depth set
Address	3			Perf. top
Mineral rights are owned by <u>Mary E. Lilly, et al</u>	<u>23/8"</u>		<u>5534'</u>	Perf. bottom
<u>200 Beauregard St. Apt. 102 Charleston, W.Va. 25320</u>	Liners Used			Perf. top
Drilling commenced <u>7-25-68</u>				Perf. bottom
Drilling completed <u>8-3-68</u>				
Date Shot From To				
With				

Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 88,000,000 Newburg Cu. Ft.
 Rock Pressure 1843 lbs. hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) _____
 WELL FRACTURED (DETAILS) _____

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 88,000 Mcf (88,000,000)
 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
Sandy Shale			0	90	Gas	5538-5540'	21,900 Mcf
Sand			90	275			
Sand & Shale			275	975			Test before fracture - 21,900 M
Sand			975	1545			Fractured Newburg 8-6-68 with 1,000
Lime <u>Big Lime</u>			1545	1710			gallons mud acid, 750 bbls. fluid,
Sand <u>Big</u>			1710	1765			29,000# 20-40 sand, 101,000 standard
Shale-Sand			1765	1985			cubic feet nitrogen. Test after
Shale			1985	2165			fracture - 88,000 Mcf (Four Point
Sand <u>area</u>			2165	2180			Potential Test) Test August 13, 1968
Shale			2180	4685			
Lime Corniferous			4685	4780			
Sand Oriskany			4780	4835			
Dolomite, Lime & Shells			4835	5538			
Newburg Sand			5538	5552			
Dolomite			5552	5565			
Total Depth			5565'				

