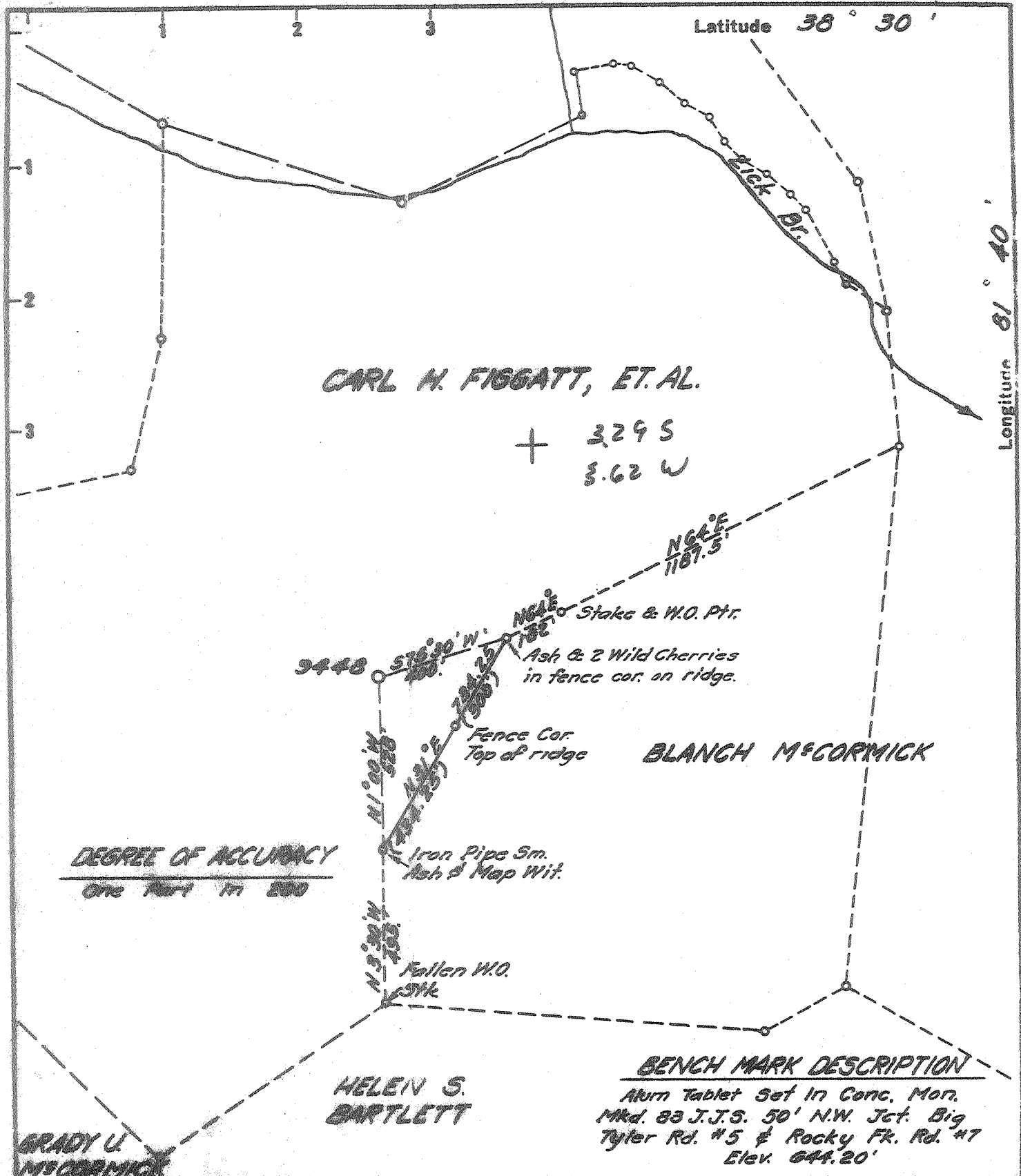


M

7/2/66



Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

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 644.20'

Company UNITED FUEL GAS CO.

Address CHARLESTON W. VA.

Farm CARL H. FIGGATT, ET. AL.

Tract _____ Acres 305 ^{MEASUR} Lease No. 17735

Well (Farm) No. _____ Serial No. 3448

Elevation (Spirit Level) 1000.46'

Quadrangle CHARLESTON ^{NW}

County KANAWHA District UNION

Engineer O. J. Jinks

Engineer's Registration No. 2712

File No. 56-65 Drawing No. _____

Date DEC. 9, 1966 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. KAV-2094

+ 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.

6-6-312

Deep Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston

Permit No. KAN-2094

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va. 25325
Farm CARL H. FIGGATT, ET AL Acres 305

Location (waters) Lick Branch
Well No. 9448 Elev. 1000.46'
District Uninn County Kanawha

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by L. Blanch McCormick, et al
106 1/2 Roane Street Address Charleston, W. Va.

Drilling commenced 2-14-67
Drilling completed 2-23-67

Date Shot _____ From _____ To _____
With _____

Open Flow 1/10ths Water in _____ Inch
1/10ths Merc in _____ Inch

Volume 20,670,000 Newburg Cu. Ft.

Rock Pressure 2155 lbs. 72 hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) _____

WELL FRACTURED (DETAILS) _____

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____

ROCK PRESSURE AFTER TREATMENT _____ HOURS _____

Fresh Water 620 Feet _____ Salt Water _____ Feet _____

Producing Sand Newburg Depth _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16.			
13 3/8"	63'	Cemented	100 sacks
10.			Size of
9-5/8"	2050'	Cemented to surface	
7"	5671'	Cemented	150 sacks
5 3/16.			Depth set
4 1/2.			
3.			Perf. top
2.		5701'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

Amount of cement used (bags) _____

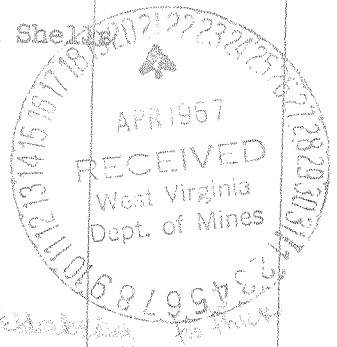
Name of Service Co. _____

COAL WAS ENCOUNTERED AT 110 FEET 60 INCHES

FEET _____ INCHES FEET _____ INCHES

FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand- Shell			0	110	Water 620'		
Coal			110	115			
Red Rock & Sand Shell			115	750	Gas 5705-5707' 3# Spring gauge thru 4"		
Sand Shells			750	1530	4,900 M		
Sand - set			1530	1815			
Lime - Blaine			1815	1990			
Sand - Dayton			1990	2030	Test before fracture - 4,640 M		
Shale - Shells			2030	2915	Fractured Newburg 3-2-67 with 1,000 gallons		
Shale			2915	4888	15% penetrating acid, 23,400 gallons		
Corniferous			4888	4979	water, 18,000# 20-40 sand, 7,300 gallons		
Oriskany			4979	4998	flush.		
Lime & Chert - Haldeman			4998	5400	Final open flow after fracture - 18# Side		
Dolomite - Sabina			5400	5710	Static 18# 4" 20,670 M		
Newburg			5710	5725			
Dolomite - Makee			5725	5746			
Total Depth			5746'				Shut in 3-3-67 in 2" tubing.



5710

LOGS RUN:
Gamma Ray
Density
Induction