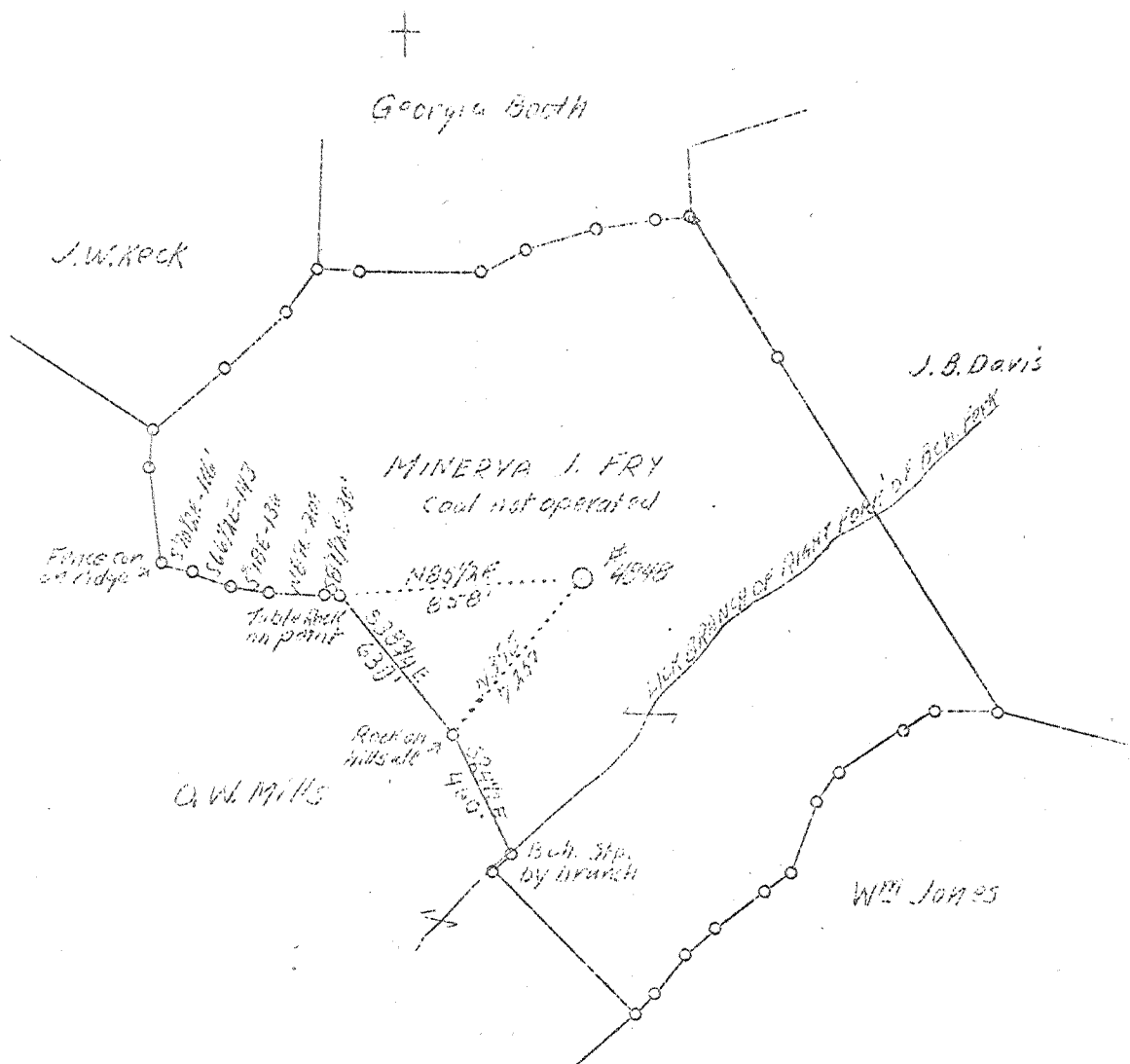


LATITUDE 38°15'

LONGITUDE 82°15'



Vol. IV, p. 681

Company United Fuel Gas Co.
 Address Charleston, W.Va.
 Farm Minerva J. Fry
 Acres 99.6
 Lease No. 39211
 Serial No. 4848
 Well (Farm) No. 1
 El. (Sea Level Barometer) 950
 Quadrangle Wayne *N.E.*
 County Wayne
 District Stonewall
 Eng. G.A. Cunningham
 Eng. Reg. No. 659
 File No. 22 - 49
 Date 5/9/39
 Scale 1" = 660'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston
 WELL LOCATION MAP
 File No. Way-156
 x Denotes location of well on U.S. 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.

6-6-231
 Samples (MI-19-C, D) (10-36623) *Deep Well*

MINERVA J. FRY NO. 1 (4848) WELL

Stonewall District, Wayne County, W. Va.

By United Fuel Gas Company, Charleston, W. Va.

Located, 4.6 mi. W. of 82015' and 2.15mi. S. of 38015' -Se- Wayne
 Quadrangle; 6 mi. E. of Wayne, on Lick Branch of Right Fork of Beech
 Creek.

Elevation, 950' (barometer).

Permit, Way-150.

Drilling commenced May 25, 1939; completed, July 13, 1939.

Shot July 15, 1939; at 2879'.

19" casing, 22'; 8-1/4", 145'; 6-5/8", 1555'; 5" tubing, 3261'.

Coal was encountered at 780-789'.

Samples were taken mostly at ten-foot intervals in the drilling of this well, but there are several gaps where one to four samples are missing. The drillers' record is not sufficiently detailed to supply much information in addition to that obtained from the samples. Record by Martens from sample examination July 27, 1940.

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	
			PENNSYLVANIAN, 1420 feet
0 -	40	40	Clay and soft shale, yellow; contains many small limestone nodules
40 -	90	50	Sandstone, light-brown, medium-grained; from 30 to 50' contains some clay and limestone nodules as above
90 -	110	20	Sandstone, gray and brownish, medium-to fine-grained, 80%; gray shale and siltstone, 20%
110 -	120	10	Shale, light-green, with many small limestone nodules
120 -	160	40	Sandstone, brown, coarse to very coarse
160 -	170	10	Shale, red, soft, calcareous
170 -	180	10	Sandstone, brown, medium-grained, 80%; light grayish-green shale, 20%
180 -	190	10	Clay, red and gray, calcareous, 60%; gray sandstone, 20%
190 -	230	40	Sandstone, white, medium-to fine-grained
230 -	240	10	Clay, gray, sandy, calcareous, pyritic; sample also contains many fragments of siderite concretions and a little impure coal
240 -	250	10	No sample
250 -	270	20	Clay, gray, sandy, with large amount of pyrite and siderite and a little impure coal; presumably the pyrite and siderite occur as nodules in the clay; they make up at least half of the two samples from this interval as well as the sample from 230 to 240'
270 -	280	10	Shale, gray, micaceous, 60%; sandstone, broken small, 40%
280 -	290	10	Shale, gray to brownish, 50%; sandstone, 50%
290 -	300	10	Shale, gray, micaceous, with pieces of siderite nodules
300 -	310	10	Sandstone, gray, fine, highly micaceous; 95%; coal 5%
310 -	320	10	Sandstone, light-gray, very fine, micaceous; both this and the preceding are broken small

(OVER)

MINNEHA J. FRY NO. (4848) WELL (continued)

Top.	Bottom.	Thickness.	
320	- 360	40	Shale, gray, soft, with spherulites and nodules of siderite
360	- 370	10	Clay, gray, yellow, and red, with nodules of siderite and impure limestone
370	- 400	30	Sandstone, white, medium-grained; contains a little mica, chlorite, and kaolin
400	- 420	20	Clay, light-gray, 90%; green siltstone, and siderite nodules and spherulites, 10%
420	- 430	10	No sample
430	- 440	10	Clay, and shale, gray with black streaks, 70%; grayish-green siltstone with siderite spherulites, 30%
440	- 450	10	Siltstone, gray to grayish-green with many siderite spherulites
450	- 470	20	Sandstone, light-gray, fine; contains small amounts of muscovite, biotite, and chlorite
470	- 560	90	Sandstone, white, fine; broken mostly to individual grains; contains small amounts of muscovite
560	- 580	20	Sandstone, gray, very fine, shaly, and micaceous
580	- 630	50	Sandstone, gray, fine to very fine; the two samples between 600 and 620' contain a little coal
630	- 660	30	Sandstone, light-gray, fine 70%; coal, 30%
660	- 700	40	Sandstone, light-gray, fine; contains muscovite, biotite, and chlorite
700	- 720	20	Sandstone, light-gray, fine, like that above, with 10 to 20% of darker gray shaly siltstone and very fine sandstone
720	- 750	30	Shale, gray, silty, micaceous
750	- 770	20	Sandstone, light-gray, very fine, slightly calcareous; contains some siderite, mica, chlorite
770	- 780	10	Sandstone, light-gray, fine, 80%; coal, 20%
780	- 789	9	Coal
789	- 800	11	No sample
800	- 880	80	Siltstone, medium-to dark-gray, shaly, micaceous; also small amount of light-gray shale and siltstone with siderite spherulites
880	- 910	30	Sandstone, light-gray, fine, calcareous; contains mica, chlorite, and siderite
910	- 920	10	Shale and siltstone, gray; contains siderite
920	- 930	10	No sample
930	- 970	40	Sandstone, light grayish green, fine, slightly calcareous; contains muscovite, biotite, chlorite, and siderite
970	- 990	20	Sandstone, gray, fine, shaly, micaceous; contains siderite and carbonaceous matter
990	- 1000	10	Shale, dark-gray, silty, micaceous
1000	- 1010	10	No sample
1010	- 1060	50	Sandstone, light-gray, fine; contains mica, chlorite, and siderite
1060	- 1370	310	Sandstone, white, fine-to medium-grained, nearly all quartz; contains very small amount of muscovite

(CONTINUED ON PAGE 3)

WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

WELL RECORD

Permit No. Way-156

Wayne Quad.

Gas Well

CASING & TUBING

Company	United Fuel Gas Company	10	22	22
Address	Box 1256, Charleston, W. Va.	8-1/4	145	145
Farm	Minerva J. Fry ACRES 99.6	6-5/8	1553	1553
Location	Lick Br. of Rt. Fk. of Beech Ck.	3	3281	3281
Well No.	4848 ELEV. 950			
District	Stonewall - Wayne County			
Surface & Mineral	Minerva J. Fry, W. Huntington, W. Va.			
Commenced	May 25, 1939			
Completed	July 13, 1939			
Date shot	7/15/39 - Depth 2870	COAL AT:		
Volume	Gas Well	780'	102"	
Rock Pressure	-			
Water	-			

Formation Color ¹⁹³⁹ Top Base Result Formation Color ¹⁹³¹ Top Base Result

Yellow Clay	0	60	White Slate	1910	1940
Blue Slate	60	70	Slate & Shells	1940	2107
Yellow Sand	70	80	Blue Slate	2107	2210
Blue Slate	80	120	Shell	2210	2234
White Sand	120	160	White Slate	2234	2302
Blue Mud	160	185	Brown Shale	2302	2316
Gray Sand	185	248	Berea Sand	2316	2334
White Slate	248	270	White Slate	2334	2339
Broken Up	270	300	Gray Shell	2339	2359
Blue Slate	300	312	White Slate	2359	2372
Black Lime	312	320	Brown Shell	2372	2475
White Lime	320	330	Gray Shell	2475	2495
Blue Mud	330	370	White Slate	2495	2614
White Sand	370	400	Slate & Shells	2614	2671
White Slate	400	450	Gray Slate	2671	2853
White Sand	450	560	Brown Shale	2853	2962
Dark Sand	560	600	Gray Shale	2962	3005
Blue Sand	600	640	Brown Shale	3005	3340
Slate & Sand	640	670	Gray Shell	3340	3396
Gray Sand	670	720	White Slate	3396	3452
White Slate	720	750	Blue Slate	3452	3521
White Sand	750	780	White Slate	3521	3575
Coal	780	789	Brown Shale	3575	3662
Blue Slate	789	830	Corniferous Lime	3662	
White Sand	830	908	Total Depth	3662	
Blue Slate	908	920			
White Sand	920	982			
Slate	982	1020			
Salt Sand	1020	1211			
Slate	1211	1215			
Salt Sand	1215	1420			
Slate & Shells	1420	1461			
White Slate	1461	1472			
Red Rock	1472	1484			
Black Mud	1484	1507			
White Slate	1507	1508			
Little Lime	1508	1525			
Pencil Cave	1525	1528			
Big Lime	1528	1539			
White Slate	1539	1542			
Big Lime	1542	1701			
Keener Sand	1701	1728			
Injun	1728	1791			
White Slate	1791	1806			
Black Lime	1806	1850			
Slate & Shells	1850	1910			

3662
950
-2712