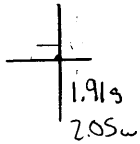


LATITUDE 39° 35'

80° 12' 30"

LONGITUDE



T'5 OGIS topo location

7.5' 10c	<u>1.89 S</u>	15' 10c	<u>1.89 S</u>
	<u>2.02 W</u>	(calc.)	<u>4.00 W</u>

Company Monongahela West Penn  
Public Service  
Farm W.D. Toothman (M-6)

Quad Grant Town Blairsville  
County Marion  
District Lincoln

WELL LOCATION MAP

File No. 049-86

LATITUDE 39°35'

LONGITUDE 80°10'

H. J. HAWKINS  
HRS. +

M# 78

ROAD TO UPTON

(COORD. VALUES)  
N-32759.74  
W-23137.76

COUNTY

N 59°30'E  
1064.25'

W.D. TOOTHMAN FARM  
35± AC.

H. J. HAWKINS  
HRS.

ST. TO FAIRMONT  
MILL RUN  
COUNTY

ROAD TO FAIRMONT

(19.7 AC.)

W.D. TOOTHMAN FARM  
35± AC.  
S 74°46' E  
1485 (DEED)  
1446.21'

(COORD. VALUES)  
N-32759.74  
W-23137.76

J. W. HAWKINS

(COORD. VALUES)  
N-31049.89  
W-22868.12

SMALL H.C.  
E.O.

F. AMOS HRS.

S 1.55  
S 1.67  
W 4.43  
W 4.26

NOTE: COORDINATE VALUES FROM JAMISON C.E.C.CO.

Company	Monongahela West Penn Public Service Co.
Address	Fairmont, W. Va.
Farm	W. D. Toothman (M. E. Toothman)
Acres	35
Lease No.	76
Well (Farm) No.	2
Serial No.	M #67
Elevation (SL)	1268.38
Quadrangle	Blacksville
County	Marion
District	Lincoln
Engineer	F. A. H. Kolley
Eng. Reg. No.	695
Drawing No.	B-81539-G
Date	Aug. 15, 1939
Scale 1" - 400'	

STATE OF WEST VIRGINIA  
Department of Mines  
OIL & GAS DIVISION  
Charleston

WELL LOCATION MAP

File No. MOR-86 D

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.

W. D. TOOTHMAN NO. 2 WELL

Lincoln District, Marion County, W. Va.

By Monongahela West Penn Public Service Company, Fairmont, W. Va.

Located 4.41 mi. W. of 80010' and 1.88mi. S. of 39035' -SW- Blacksville Quadrangle.

Elevation, 1268.38' L.

Permit, Mar-86.

Well originally drilled to Big Injun Sand, total depth 2023'; completed May 6, 1916.

Deepening started Sept. 12, 1939; completed, Oct. 25, 1939.

Shot Oct. 26, 1939, at 2956 to 2961 and 2967 to 2972'.

Gas well; 116,000 cu. ft. per day; 51 lbs. rock pressure in 24 hrs.

5-5/16" casing, 2890'.

Record by Hartens from sample examination July 27, 1940.

Top. Bottom. Thickness.

LOWER MISSISSIPPIAN AND UPPER DEVONIAN			
Top.	Bottom.	Thickness.	
2023	2043	20	Sandstone, light-gray, fine-to medium-grained
2043	2083	40	Shale and siltstone, gray
2083	2091	8	Siltstone, gray
2091	2095	4	Sandstone, light-gray, very fine, micaceous; with some darker gray siltstone
2095	2121	26	Siltstone, gray, shaly, 60%; darker gray shale, 40%
2121	2145	24	Sandstone, light-gray, fine; some shale throughout, but more near top
2145	2321	176	Siltstone, gray, micaceous; with up to about 30% of gray silty shale; some of the material classed as siltstone contains considerable very fine sand, but there are no distinct beds of sandstone in this interval
2321	2341	20	Shale, dark-gray, 80%; gray siltstone, 20% (Sunbury Shale?)
2341	2354	13	Sandstone, light-gray, very fine, slightly calcareous; some fragments highly pyritic (Berea Sandstone?)
2354	2361	7	Shale, dark-gray, silty
2361	2378	17	Siltstone, gray, shaly
2378	2388	10	Shale, gray
2388	2400	12	Siltstone, gray, shaly, slightly calcareous
2400	2420	20	Shale, gray, silty, micaceous; with small amount of gray and green siltstone
2420	2424	4	Sandstone, light-gray, fine, 60%; gray shale, 40%
2424	2437	13	Sandstone, nearly white, coarse, pebbly
2437	2465	28	Shale, gray, fairly dark
2465	2475	10	Shale, gray, 60%; white to gray, poorly sorted sandstone, 40%
2475	2478	3	Siltstone, gray
2478	2500	22	Sandstone, white to light grayish-green; considerable rust stain from 2485 to 2495'; poorly sorted, but mostly fine
2500	2505	5	Shale, gray, 50%; white sandstone, 50%
2505	2531	26	Sandstone, light grayish-green, fine
2531	2536	5	Shale, gray
2536	2542	7	Sandstone, white to light-green, fine
2542	2548	6	Shale, red, green, and gray in about equal amounts
2548	2554	6	Shale, green and gray
2554	2579	25	Sandstone, nearly white, coarse, with small amount of rust stain
2579	2592	13	Shale, gray
2592	2597	5	Sandstone, light grayish-green, mostly fine, poorly sorted

W, D, TOOTHMAN NO. 2 WELL (continued).

Top.	Bottom.	Thickness.	
2597	- 2610	13	Shale, gray
2610	- 2640	30	Shale, gray, green, and red, 60%; siltstone, 40%
2640	- 2669	29	Shale, red
2669	- 2674	5	Siltstone, green
2674	- 2680	6	Shale, gray
2680	- 2729	49	Shale, red; with varying amounts of red and green siltstone and gray and green shale
2729	- 2734	5	Sandstone, light-gray, fine
2734	- 2750	16	Shale, red
2750	- 2760	10	Shale, red and green, 50%; siltstone, 50%
2760	- 2764	4	Sandstone, red and green, fine
2764	- 2775	11	Shale, gray
2775	- 2787	12	Siltstone, gray and green
2787	- 2793	6	Siltstone, red and green
2793	- 2805	12	Sandstone, white to gray, very fine
2805	- 2826	21	Shale, gray and green; some calcareous siltstone between 2812 and 2819'
2826	- 2833	7	Sandstone, white to light-green, very fine, 60%; gray and green shale, 40%
2833	- 2883	50	Shale, gray; a little coarse sandstone between 2851 and 2859'
2883	- 2889	6	Siltstone, grayish-green
2889	- 2931	42	Shale, gray; with some siltstone
2931	- 2971	40	Sandstone, nearly white, with some rust stain; medium-grained in samples but many grains appear to be broken so may actually be coarse
2971	- 2997	26	Shale, gray; with varying amounts of siltstone and very fine sandstone
	2997		Total depth

WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

W E L L R E C O R D

Permit No. Mar-86

Gas Well

Blacksville Quad.

CASING & TUBING

Company	Monongahela West Penn Public Ser. Co.	5-3/16 2890 2890
Address	306 Watson Bldg., Fairmont, W. Va.	No tubing in well,
Farm	W. D. Toothman ACRES 35	producing thru 5-3/16
Location	Little Dunkard Mill Run	casing.
Well No.	W.E.Toothman #2 M #67 ELEV. 1268.38	
District	Lincoln - Marion County	
Surface	W. D. Toothman, Farmington, W. Va.	
Mineral	Same & Jamison Coal & Coke Co. of Fairmont, W. Va.	
Commenced	9/12/39 - completed 10/25/39	
Shot	10/26/39 - depth 2956-2961 & 2967-2972	
Open Flow	6/10ths Water in 2 inch	
Volume	116,000 c.f.	
Rock Pressure	51 lbs. 24 hrs.	
Oil	None	
Water	-	

Formation Color & Top Base Result Formation Color & Top Base Result

Well originally drilled to Big Injun Sand - Total Depth 2023 - Completed May 6, 1916									
Present job - Started drilling at 2028 - Sept. 12, 1939									
Big Injun Sand	2121	2121							
Sand (Squaw)	2121	2151							
Line & Shells	2151	2170							
Sand & Shells	2170	2405							
Gantz Sand	2405	2456							
Slate & Shells	2456	2473							
50 Ft. Sand	2473	2545							
Slate	2545	2550							
50 Ft. sand	2550	2600							
Slate & Shells	2600	2676							
Gordon Stray Sand	2676	2686							
Slate & Shells	2686	2700							
Gordon Sand	2700	2758							
Slate & Shells	2758	2940							
5th Sand	2940	2972							
			1st Gas	2956					
			2nd Gas	2967					
Total Depth	2997		Production before shot -	83,000 c.f.					
	2023		Production after shot of	20 qts. - 116,000 c.f.					
	94*								

**WEST VIRGINIA DEPARTMENT OF MINES**

**OIL & GAS DIVISION**

**W E L L R E C O R D**

Permit No. Mar-86

Gas Well

Blacksville Quad.

CASING & TUBING

Company	Monongahela West Penn Public Ser. Co.	5-3/16 2890 2890
Address	306 Watson Bldg., Fairmont, W. Va.	No tubing in well,
Farm	W. D. Toothman ACRES 35	producing thru 5-3/16
Location	Little Dunkard Mill Run	casing.
Well No.	K.E.Toothman #2 M #67 ELEV. 1268.38	
District	Lincoln - Marion County	
Surface	W. D. Toothman, Farmington, W. Va.	
Mineral	Same & Jamison Coal & Coke Co. of Fairmont, W. Va.	
Commenced	9/12/39 - completed 10/25/39	
Shot	10/26/39 - depth 2956-2961 & 2967-2972	
Open Flow	6/10ths Water in 2 inch	
Volume	116,000 c.f.	
Rock Pressure	51 lbs. 24 hrs.	
Oil	None	
Water		

*Formation Color & Top Base Result*      *Formation Color & Top Base Result*

Well originally drilled to Big Injun Sand - Total Depth 2023 - Completed May 6, 1916									
Present job - Started drilling at 2028 - Sept. 12, 1939									
Big Injun Sand		2121							
Sand (Squaw)	2121	2151							
Lime & Shells	2151	2170							
Sand & Shells	2170	2405							
Gantz Sand	2405	2456							
Slate & Shells	2456	2473							
50 Ft. Sand	2473	2545							
Slate	2545	2550							
30 Ft. sand	2550	2600							
Slate & Shells	2600	2676							
Gordon Stray Sand	2676	2686							
Slate & Shells	2686	2700							
Gordon Sand	2700	2758							
Slate & Shells	2758	2940							
5th Sand	2940	2972	1st Gas	2956					
			2nd Gas	2967					
Total Depth		2997	Production before shot - 83,000 c.f.						
			Production after shot of 20 qts. - 116,000 c.f.						