



W-0.7
S-5.7

New Location ■
 Drill Deeper ○
 Abandonment ✖

Company THE OWENS LIBBEY-OWENS GAS DEPT.
 Address BOX 1375 CHARLESTON, W.VA.
 Farm J. D. BAKER
 Tract _____ Acres 98 Lease No. 695
 Well (Farm) No. 1 Serial No. 593
 Elevation (Spirit Level) 590.9
 Quadrangle GUYANDOT SW
 County WAYNE District UNION
 Engineer T.S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date 12-20-40 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. **WAY-229**

+ 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

3 samples at 70 (1189-315) Deep Well

J. B. WAKER NO. 1 (593) WELL.

Union District, Wayne County, W. Va.
 By The Owens, Libbey-Owens Gas Department, Charleston, W. Va.
 Located 0.7 mi. W. of $82^{\circ} 25'$ and 5.7 mi. S. of $38^{\circ} 20'$ - SW -
 Guyandot Quadrangle.

Elevation, 590.9' L.

Permit Way-229.

Drilling commenced Jan. 13, 1941; completed March 4, 1941.

Shot March 2, 1941; depth, 2461-2941'.

Volume, 169,000 cu. ft.; rock pressure, 475 lbs. in 24 hrs.

Fresh water, 595 and 900'.

13" casing, 27'; $8\frac{1}{4}"$, 250'; $6\frac{3}{8}"$, 1572'; $5\frac{1}{8}"$, 597'; 3" tubing, 2941'.

Section based on samples from 1189 to 3165', examined by C. N. Apsouri
 (omitting part of Devonian Shales).

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	
GREENBRIER LIMESTONE, 168 FEET			
1189	- 1287	98	Limestone, light-brown to white
1287	- 1307	20	Limestone, very light brown, slightly sandy, 80%; light-green limestone, 20%
1307	- 1317	10	Limestone, very light brown
1317	- 1342	25	Limestone, very light brown, oolitic, slightly sandy
1342	- 1357	15	Limestone, brown, dolomitic
POCONO FORMATION, 677 FEET			
1357	- 1371	14	Siltstone, gray, sandy, pyritic
1371	- 1382	11	Sandstone, gray, very fine
1382	- 1387	5	Shale, gray, silty
1387	- 1413	26	Siltstone, light-gray, sandy
1413	- 1428	15	Siltstone, light-gray, sandy, 80%; coarse quartz sand grains, 20%
1428	- 1457	29	Siltstone, gray to greenish-gray, sandy
1357	- 1467	10	No samples
1467	- 1483	16	Sandstone, white, very fine, pyritic; contains some coarser grains
1483	- 1493	10	Sandstone, white, very fine, pyritic
1493	- 1498	5	Siltstone, gray, 75%; white sandstone, 25%
1498	- 1516	18	Siltstone, gray and brown, partly sandy (depth corrected from 1498 to 1506 $\frac{1}{2}'$ making this interval $8\frac{1}{2}'$ too large)
1516	- 1541	25	Siltstone, gray to white, 80%; brown shale, 20%
1541	- 1559	18	Shale, gray and brown
1559	- 1571	12	Shale, gray, silty, 50%; gray and brown sandy siltstone, 50%
1571	- 1576	5	Siltstone, gray, shaly
1576	- 1763	187	Shale, gray
1763	- 1786	23	Shale, gray, pyritic
1786	- 1797	11	No samples
1797	- 1831	34	Shale, gray
1831	- 1879	48	Shale and siltstone, gray
1879	- 1899	20	Shale, gray
1899	- 1954	55	Shale, gray, 50%; gray to white siltstone, 50%
1954	- 1974	20	Shale, gray
1984	- 1992	18	Shale, very dark gray, 70%; light-gray shale, 30% (Sunbury Shale)
	2003		Depth corrected from 1992 to 2003' by SIM
2003	- 2009	9	Sandstone, white, very fine, pyritic (Berea Sandstone; show of oil at 2003')

(OVER)

J. B. BAKER NO. 1 (593) WELL (Continued).

Top. Bottom. Thickness.

DEVONIAN SHALES, 1123 FEET

2043 - 2061	18	Sandstone, light-gray, sandy, 60 to 70%; gray shale, 40 to 30%
2061 - 2108	47	Shale, light-gray, 75%; brown siltstone, 25%
2108 - 2145	37	Shale, light-gray, 50%; very dark-gray shale, 50%
2145 - 2150	5	Shale, very dark gray, silty
2150 - 3063	913	Samples not examined
2063 - 3116	53	Shale, light greenish gray, 80%; very dark gray shale, 20%
3116 - 3157	41	Shale, very dark gray
		HUNTERSVILLE CHERT? (CONCRETEOUS), 8+ FEET
3157 - 3164	7	Limestone, brownish-gray, very cherty, pyritic
3164 - 3165	1	Chert, light-gray, calcareous
		Total depth by samples
3165		
3158		Total depth by driller's record

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Way-229
Guyandot Quad.

Gas Well

Company The Owens, Libbey-Owens Gas Dept.
Address Box 1375, Charleston, W. Va.
Farm J. D. Baker ACRES 98
Location Twelve Pole Creek
Well No. 593 ELEV. 591
District Union - Wayne County
Surface & Mineral J. D. Baker, Wayne, W. Va.
Commenced Jan. 13, 1941
Completed March 4, 1941
Shot 3/2/41 - depth 2461-2941
Volume 169,000 c.f.
Rock Pressure 475 lbs. 24 hrs.
Fresh Water 595 and 900
Salt Water -

CASING & TUBING

13	27	27
8-1/4	250	250
6-5/8	1572	1572
5-3/16	597	597
3	2941	2941

Packer - Oil Well Anchor
Wall
Size - 3x6-5/8x16
Depth set - 2058
Perf. top - 2340 2937
" bot.- 2885 2890
" top - 2910
" bot.- 2915

Surface Gravel	s	0	27		Shell	dk	h	2034	2041	
Sand	lt	s	27	45	FW 40 2 BPH	Slate	dk	s	2041	2043
Slate	dk	s	45	171		Shell	dk	h	2043	2071
Slate	lt	s	171	213		Slate&Shell	gr	m	2071	2133
Sand	lt	s	213	238	FW 224 HF	Shale	bn	s	2133	2204
Slate	dk	s	238	275		Slate&Shells	lt	s	2204	2245
Sand	lt	s	275	351	FW 350 1 BPH	Shell	lt	h	2245	2255
Slate	lt	s	351	377		Slate&Shells	lt	s	2255	2273
Slate&Shale	lt	s	377	479		Slate	lt	s	2273	2396
Slate	dk	s	479	511		Slate&Shells	lt	s	2396	2472
Slate&Shells	dk	s	511	560		Shale	bn	s	2472	2559
Sand	lt	m	560	594		Shale&Shells	lt	s	2559	2599
Slate	dk	s	594	643		Shale	bn	s	2599	2680
Sand	lt	m	643	683		Slate&Shells	bn	m	2680	2710
Slate	dk	s	683	698						Gas 2699-
Sand	lt	s	698	745						2732
Slate	dk	s	745	748		Shale	bn	s	2710	2915
Sand	lt	s	748	781		Slate	lt	s	2915	2939
Slate	dk	s	781	798		Shell	lt	h	2939	2951
Sand	lt	m	798	808		Slate	lt	s	2951	3109
Slate	dk	m	808	826		Shale	bn	s	3109	3157
Sand	lt	m	826	954	SW 860-866 HF	Corniferous L	dk	h	3157	3158
Slate	dk	s	954	956		Total Depth				3158
Sand	lt	h	956	983						
Slate	dk	s	983	988		Hole filled up				
Sand	lt	h	988	1094		with crushed stone		3158	2941	
Slate	dk	s	1094	1097						
Sand	lt	h	1097	1103						
Shell	dk	h	1103	1109						
Slate	dk	s	1109	1118						
Slate&Shells	dk	s	1118	1134						
Red Rock	rd	s	1134	1138						
Slate	dk	s	1138	1169						
Shell	dk	h	1169	1189						
Big Lime	lt	h	1189	1363						
Big Lime	dk	h	1363	1371						
Big Lime	wh	h	1371	1399						
Sand	gr	h	1399	1448						
Slate			1448	1467						
Sand	lt	s	1467	1496						
Slate	dk	s	1496	1501						
Sand	dk	m	1501	1526						
Shell	dk	h	1526	1557						
Slate	dk	s	1557	1567						
Shell	dk	h	1567	1582						
Slate&Shells	dk	s	1582	1925						
Slate&Shells	dk	h	1925	1955						
Slate&Shells	dk	s	1955	1991						
Shale	dk	s	1991	2003						
Berea Sand	gr	h	2003	2034	Sh.Oil 2003					

3158
591

2567

3157
591

2566