



0.97 S
0.63 W

New Location
 Drill Deeper
 Abandonment

Vol. VII, p. 689

Company THE OWENS LIBBEY-OWENS GAS DEPT.
 Address BOX 1375 CHARLESTON, W. VA.
 Farm J. P. BARBOUR
 Tract _____ Acres 125 Lease No. 1673
 Well (Farm) No. ONE Serial No. 645
 Elevation (Spirit Level) 638.54
 Quadrangle GUYANDOT-SW
 County WAYNE District UNION
 Engineer T.S. [Signature]
 Engineer's Registration No. 265
 File No. _____ Drawing No. _____
 Date JUNE 12, 1942 Scale 1" = 1000 FT.

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

WELL LOCATION MAP
 FILE NO. Wzy-271

+ 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.

6-6229
Deep Well

Sample (no. 1) - 1240-4041

J. P. BARBOUR AND W. F. DUNKLE NO. 1 (645) WELL.

Union District, Wayne County, W. Va.

By The Owens, Libbey-Owens Gas Dept., Charleston, W. Va.

Located 0.97 mi. S. of 35° 20' and 0.63 mi. W. of 82° 25' - SW - Guyandot Quadrangle.

Commenced Sept. 10, 1942; completed Dec. 10, 1942.

Elevation, 638.54' L.

Permit Way-271.

Gas well in Big Six; 119,000 cu. ft. and 1360 lbs. rock pressure.

Section based on samples from 1244 to 1602, and 2070 to 2123', examined by J. H. C.

Martens. Survey also has samples 2491 to 2041'.

Record to RCT from Martens March 24, 1945.

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	Description
GREENBRIER LIMESTONE, 189 FEET			
1244			Top of "dark lime" in driller's record
1248 - 1271		23	Limestone, brown to light-brown
1271 - 1313		42	Limestone, very light brown; contains some oolites and microfossils; a few pieces of light-green shale are present in each sample, but they probably come from the top of this interval
1313 - 1413		100	Limestone, very light brown to white
1413 - 1433		20	Limestone, light-brown, dolomitic, slightly sandy
POCONO FORMATION, 680 FEET			
1433 - 1439		6	Shale, dark-gray, 80%; green silty shale, 20%
1439 - 1508		69	Siltstone, gray, coarse and sandy
1508 - 1541		33	Siltstone, gray, coarse; contains a few very coarse rounded quartz grains
1541 - 1584		43	Sandstone, light-gray, very fine; not much coarser than the siltstone above
1584 - 1588		4	No sample
1588 - 1602		14	Siltstone and silty shale, gray
1602 - 2070		468	No sample
2070 - 2084		14	Shale, black (Sunbury Shale)
2084 - 2090		6	Sandstone, white, very fine; much pyrite in some fragments (Berea Sandstone)
2090 - 2113		23	Siltstone, nearly white, coarse, 80%; gray silty shale, 20%
DEVONIAN SHALES, 1125 FEET			
2113 - 2123		10	Shale, gray, 50%; light-gray siltstone, 50%
3238			Top Corniferous in record
	4042		Total depth

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

Permit No. Way 271
Guyandotte Quad.

Gas Well
CASING & TUBING

Company	The Owens, Libbey-Owens Gas Dept.			
Address	P.O. Box 2111, Charleston, W.Va.	10	254'	254'
Farm	J.P. Barbour Acres 125	8 1/2	1234	1234
Location	Beech Fork	6 5/8	1588	1588
Well No	645	3	4042	4042
District	Union Wayne County			
Surface	J.P. Barbour, Lavalette, W.Va.			OWS Wall Anchor Packer
Mineral	Same			Size 3 x 6 5/8 x 16"
Commenced	Sept. 10, 1942			Depth 3883-3877
Completed	Dec. 10, 1942			Perf. top 4020
Not shot				Perf. bot 4041 } Rose Hill
Volume	119,000 C.F.			
Rock Pressure	1360 lbs. 48 hrs.			
Fresh Water	102; 120' H.F.			
Salt Water	999 H.F.; 3451' 2 1/2 Gal. pr. hr. with H ₂ S			

Surface	R	S	0	22	Shells	Gr	H	2387	2404
Clay	R	S	22	32	Slate&Shells	Gr	S	2404	2516
Mud	Bl	S	32	56	Shale	Br	S	2516	2582
Mud	R	S	56	66	Slate&Shells	Gr	S	2582	2653
Slate	Dk	S	66	81	Broken Shale	Br	S	2653	2677
Red Rock	R	S	81	111	Shale	Br	S	2677	2750
Slate	Lt	S	111	216	Slate	Gr	S	2750	2778
Sand	Wh	S	216	221	Shale	Br	S	2778	2875
Slate	Lt	S	221	331	Slate	Gr	S	2875	2888
Sand	Wh	S	331	371	Shale	Br	S	2888	2996
Slate	Wh	S	371	383	Slate & Shells	Dk	S	2996	3011
Slate	Gr	S	383	450	Slate	Lt	S	3011	3042
Slate	Dk	S	450	490	Slate & Shells	Gr	S	3042	3077
Sand	Wh	S	490	525	Slate	Gr	S	3077	3192
Slate	Wh	S	525	589	Shale	Br	S	3192	3210
Sand	Wh	S	589	618	Slate& Shells	Dk	S	3210	3238
Slate	Dk	S	618	653	Corniferous	Dk	H	3238	3970
Salt Sand	Wh	M	653	710	Big Six Sand	Wh	H	3970	3992
Slate	Wh	S	710	730	Slate	R	S	3992	4042
Sand Broken	Wh	S	730	815	TOTAL DEPTH				4042
Slate	Wh	S	815	825					
Sand	Wh	S	825	855	Gas 3942-3944			133,000 C.F.	- Corniferous ls. (prob. mck.)
Slate	Wh	S	855	866					
Slate	Dk	S	866	912					
Sand	Gr	S	912	1225					
Lime	Dk	H	1225	1234					
Slate	Dk	S	1234	1244					
Lime	Dk	H	1244	1271					
Big Lime	Wh	H	1271	1339					
Big Lime	Wh	H Gritty	1339	1349					
Big Lime	Wh	H	1349	1433					
Slate	Dk	S	1433	1439					
Big Injun	Gr	S	1439	1578					
Slate	Dk	S	1578	1584					
Shell	Dk	H	1584	1585					
Lime	Gr	H	1585	1588					
Slate&Shells	Gr	S	1588	1659					
Slate & Shells	Dk	S	1659	1709					
Slate&Shells	Gr	S	1709	1877					
Slate	Gr	S	1877	1923					
Slate & Shells	Gr	S	1923	1978					
Slate&Shells	Gr	H	1978	2034					
Slate&Shells	Gr	S	2034	2069					
Shale	Dk	S	2069	2084					
Berea Sand	Gr	H	2084	2103					
Shells	Gr	H	2103	2151					
Slate	Dk	S	2151	2202					
Slate&Shells	Dk	S	2202	2288					
Slate&Shells	Gr	H	2288	2312					
Shells	Gr	H	2312	2332					
Slate	Gr	S	2332	2350					
Slate&Shells	Gr	M	2350	2387					

3238
 639
 2599

139
 1439
 639
 800