



Company THE OWENS, LIBBEY-OWENS GAS DEPT.
 Address BOX 2111 CHARLESTON 28, W VA.
 Farm LOUISA COLLINS
 Tract _____ Acres 711 1/2 Lease No. 1205
 Well (Farm) No. TWO Serial No. 669
 Elevation (Spirit Level) 1093.5
 Quadrangle MIDKIFF SW
 County WAYNE District GRANT
 Engineer T.S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date JULY 19, 1943 Scale 1" = 1000 FT.

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

WELL LOCATION MAP
 FILE NO. WAY-289

+ 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.

Samples - 10-G - 1154-19, 289, 291 Deep Well

Wayne 289

Grant District, Wayne County, W. Va.

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

Located 0.6 mi. S. of 38° 05' and 3.89 mi. W. of 82° 10' - SW - Midkiff Quadrangle.

Elevation, 1093.5' L.

Permit Way-289.

Drilling commenced Aug. 10, 1943; completed Sept. 30, 1943.

Gas well in Devonian Shales.

Section based on samples from 1664 to 1919', 2497 to 2512', and 2937 to 3971',
examined by J. H. C. Martens.

Record to RCT from Martens March 24, 1945.

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	
MAUCH CHUNK GROUP, 27+ FEET			
1664	- 1689	25	Limestone, brown, fossiliferous
1689	- 1691	2	Shale, green, soft, thinly laminated (Pencil Cave)
GEORGETOWN LIMESTONE, 201 FEET			
1691	- 1747	53	Limestone, light-brown to very light brown
1747	- 1762	15	Limestone, brown, indistinctly oolitic
1762	- 1785	23	Limestone, light-brown
1785	- 1801	16	Limestone, light-brown, partly oolitic and slightly sandy
1801	- 1810	9	Limestone, light-brown
1810	- 1925	15	Limestone, very light brown and light-green
1825	- 1853	28	Limestone, light-brown
1853	- 1873	20	Limestone, light-brown, partly oolitic
1873	- 1892	19	Limestone, brown, dolomitic, with about 20% of white anhydrite
MACGRADY FORMATION, 19 FEET			
1892	- 1911	19	Siltstone, red
POCONO FORMATION, 592 FEET			
1911	- 1919	8	Siltstone, gray
1919	- 2497?	578	No samples
2471?	- 2497	26	Shale, dark
2497	- 2501	4	Siltstone, light-gray, pyritic; also some black and gray shale
2501	- 2503	2	Siltstone, white, coarse (Berea, 2497-2503')
DEVONIAN SHALES, 1462 FEET			
2503	- 2512	9	Shale and shaly siltstone, gray
2512	- 3917	1405	Samples not described
3917	- 3965	48	Shale, black
HUNTERSVILLE CHERT, 6+ FEET			
3965	- 3967	2	Limestone, brown, fossiliferous, containing pyrite and sphalerite
3967	- 3971	4	Limestone, brown, very cherty
	3969		Total depth by record

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

Permit No. Way 289
Midkiff Quad.

Gas Well
CASING & TUBING

Company	The Owens, Libbey-Owens Gas Dept.	Cond. 14" 14"
Address	P.O. Box 2111, Charleston, 28, W.Va.	8 1/2 341' 341'
Farm	Louisa Collins Acres 711	6 5/8 1710' 1710'
Location	Wm. Nelson Branch	3 3945' 3945'
Well No	669 Elev. 1093. 5 L	
District	Grant Wayne County	
Surface	Joe Taylor Heirs, Wewanta, W.Va.	OWS Anchor Packer
Mineral	Mrs. Louisa Collins, 544 Bridge St., Huntington, W.Va.	Size 3 x 6 5/8 x 16"
Commenced	Aug. 10, 1943	Depth 2800-2806
Completed	Sept. 30, 1943	Perf. top 3330'
Date shot	10-L-43 Depth 3193 to 3969 with 7500# Detonite	" bot 3352'
Volume	119,000 C.F.	" top 3286'
Rock Pressure	375 lbs. 15 hrs.	" bot 3308'
Salt Water	685' 1/2 blr. pr. hr.	3230' - 3262'

Clay	Y	S	0	16	Shell	Dk	H	2503	2508
Slate	Lt	S	16	52	Slate & Shells	Lt	S	2508	2535
Coal	Dk	S	52	55	Slate & Shell	Dk	H	2535	2615
Slate	Lt	S	55	71	Slate & Shells	Lt	S	2615	2800
Sand	Lt	S	71	86	Shell	Dk	H	2800	2815
Slate	Lt	S	86	109	Slate & Shells	Lt	S	2815	2931
Sand	Lt	S	109	199	Slate	Dk	S	2931	2937
Coal	Dk	S	199	204	Brown Shale	Br	S	2937	3026
Slate	Lt	S	204	210	Slate & Shells	Dk	M	3026	3097
Sand	Lt	S	210	245	Shale	Dk	S	3097	3113
Slate	Lt	S	245	258	Shale & Shell	Dk	M	3113	3144
Sand	Lt	S	258	290	Slate	Dk	S	3144	3221
Slate	Lt	S	290	340	Slate & Shell	Dk	S	3221	3247
Sand	Lt	S	340	433	Slate	Dk	S	3247	3263
Slate	Dk	S	433	447	Shale	Dk	S	3263	3285
Sand	Lt	S	447	518	Shell	Dk	H	3285	3300
Slate	Lt	S	518	542	Shale & Shells	Dk	S	3300	3337
Sand	Lt	S	542	560	Shale	Dk	S	3337	3383
Slate	Lt	S	560	565	Shell	Dk	H	3383	3395
Sand	Lt	S	565	590	Shale	Dk	H	3395	3405
Slate	Dk	S	590	669	Shell	Dk	H	3403	3414
Sand	Lt	H	669	698	Shale	Dk	S	3414	3490
Slate & Shells	Dk	M	698	791	Shell	Dk	H	3490	3505
Slate	Dk	S	791	801	Shale	Dk	S	3505	3583
Sand	Lt	M	801	851	Slate	Lt	S	3583	3595
Slate & Shells	Lt	S	851	978	Shell	Lt	H	3595	3606
Sand	Wh	M	978	1148	Slate	Lt	S	3606	3648
Sand	Lt	H	1148	1315	Shell	Dk	H	3648	3661
Slate	Lt	S	1315	1325	Slate	Lt	S	3661	3776
Sand	Lt	H	1325	1396	Shale	Dk	S	3776	3787
Slate	Dk	S	1396	1414	Slate	Lt	S	3787	3876
Sand	Lt	H	1414	1513	Shale	Br	S	3876	3965
Slate	Dk	S	1513	1518	Shale	Br	S	3876	3969
Sand	Lt	H	1518	1633	C. Lime	Dk	H	3965	3969
Slate	Lt	S	1633	1639	TOTAL DEPTH				3969
Sand	Lt	H	1639	1641	Gas 851' 15,000 C.F.				
Lime	Dk	H	1641	1689	Show gas 3212'				
Slate	Dk	S	1689	1691					
Big Lime	Lt	H	1691	1724					
Big Lime	Wh	H	1724	1898					
Injun	Sand	M	1898	1919					
Shell	Dk	H	1919	1954					
Slate & Shells	Lt	M	1954	2006					
Shell	Lt	H	2006	2016					
Slate & Shells	Lt	M	2016	2197					
Shell	Lt	H	2197	2235					
Slate & Shells	Lt	M	2235	2471					
Shale	Dk	S	2471	2497					
Berea	Sand	Dk	2497	2508					

3965
1094

2871