



Company THE OWENS LIBBEY-OWENS GAS DEPT.
 Address BOX 1375 CHARLESTON W. VA.
 Farm WILSON COAL LAND CO.
 Tract _____ Acres 9937 Lease No. 1460
 Well (Farm) No. 27 Serial No. 584
 Elevation (Spirit Level) 729.3
 Quadrangle NAUGATUCK N. NC
 County WAYNE District LINCOLN
 Engineer T.S. Flannery
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date OCT. 7, 1940 Scale 1"=1000'

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

WELL LOCATION MAP
 FILE NO. WAY-220

+ 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

293

Deep Well

WILSON COAL LAND COMPANY NO. 27 (594) WELL.

Lincoln District, Wayne County, W. Va.

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

Located 1.78 mi. S. of 38° 00' and 1.21 mi. W. of 82° 20' - NC - Naugatuck
Quadrangle.

Elevation, 729.3' L.

Permit Way-220.

Drilling commenced Oct. 13, 1940; completed Dec. 14, 1940.

Volume, 33,000 cu. ft.

Fresh water, 40'; salt water, 840'.

10" casing, 28'; 8 1/2", 302'; 6 3/8", 1287'.

Sample description from 2680 to 3328' by C. N. Apsour and 3328 to 3815' by
J. H. C. Martens.

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	Description
GREENSBRIER LIMESTONE, 185 FEET			
1257 - 1442	185	Limestone, white, hard (from driller's record)	
MACCRADY AND POCONO FORMATIONS, 609 FEET			
2011 - 2021	10	Shale, brown, soft (Sunbury Shale)	
2021 - 2051	30	Sandstone, white, hard (Berea Sandstone)	
DEVONIAN SHALES, 1277 FEET			
2051 - 2680	629	No samples	
2680 - 2823	143	Shale, very dark gray or chocolate-brown	
2823 - 2829	6	Shale, gray	
2829 - 2978	149	Shale, very dark gray or chocolate-brown	
2978 - 2993	15	Shale, black	
2993 - 3003	10	Shale, gray	
3003 - 3163	60	No samples	
3163 - 3197	34	Shale, greenish-gray	
3197 - 3284	87	No samples	
3284 - 3328	44	Shale, very dark gray to chocolate-brown	
HUNTERSVILLE CHERT, 661 FEET			
3328 - 3331	3	Limestone, brown, cherty	
3331 - 3341	10	Limestone, light-brown, very cherty	
3341 - 3356	15	No sample	
3356 - 3365	9	Limestone, light-brown, very cherty; contains some silt and dolomite and a very little glauconite	
3365 - 3394	29	Limestone, very light brown, cherty, and slightly dolomitic; a few sand grains and some coarse silt at 3389-3394' may mark the Oriskany horizon	
HELDENBERG GROUP, 631 FEET			
3394 - 3402	8	Limestone, nearly white, cherty, 50%; dark-brown, cherty, and silty limestone, 50%	
3402 - 3423	21	Limestone, light-brown to gray, fossiliferous, silty, slightly dolomitic; contains a little chert and very little glauconite	
3423 - 3429	6	Chert, gray, highly calcareous, silty, glauconitic; contains many small specks of pyrite	
3429 - 3433	4	No sample	
3433 - 3440	7	Limestone, gray, fossiliferous, cherty, and silty; contains many small specks of pyrite and glauconite	
3440 - 3444	4	Shale, dark-gray, pyritic, highly calcareous; contains a little glauconite	
3444 - 3457	13	Limestone, gray to dark-gray with white spots, highly fossiliferous, silty, and somewhat cherty; contains much pyrite	
CAYUGAN SERIES, 358+ FEET			
3457 - 3467	10	Limestone, light-brown	
3467 - 3472	5	Limestone, brown, highly pyritic	

(OVER)

WILSON COAL LAND COMPANY NO. 27 (584) WELL (Continued).

Top.	Bottom.	Thickness.	
3472	- 3505	33	Limestone, brown to gray, dolomitic
3505	- 3509	4	Dolomite, brown, very fine textured
3509	- 3519	10	Dolomite, very light brown, with white crystalline dolomite occurring as veins and fillings of irregular cavities; cleavage fragment of purple fluorite in sample from 3509-3514'
3519	- 3532	13	No sample
3532	- 3536	4	Dolomite, dark-brown
3536	- 3549	13	No sample
3549	- 3554	5	Dolomite, very light brown, with about 10% of white anhydrite
3554	- 3566	12	No sample
3566	- 3569	13	Dolomite, brown
3569	- 3597	18	Dolomite, dark-brown
3597	- 3606	9	Dolomite, brown
3606	- 3698	92	Dolomite-anhydrite rock, brown with some white; samples not complete
3698	- 3751	53	Dolomite, brown to dark-brown, very fine textured
3751	- 3784	33	Dolomite, brown, not quite so fine
3784	- 3793	9	Dolomite, light-brown
3793	- 3796	3	No sample
3796	- 3815	19	Dolomite, dark-brown
	3819		Total depth

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

Permit No. Way-220
Naugatuck Quad.

Gas Well

Company The Owens, Libbey-Owens Gas Dept.,
Address Box 1375, Charleston, W. Va.
Farm Wilson Coal Land Co. ACRES 9937
Location Twelve Pole Creek
Well No. 584 ELEV. 729.3
District Lincoln - Wayne County
Surface State Conservation Comsr., Charleston
Mineral Owens, Libbey-Owens Gas Dept.
Commenced Oct. 13, 1940
Completed Dec. 14, 1940
Open Flow 10/10ths W in 1 inch
Volume 33,000 c.f.
Rock Pressure -
Fresh Water 40 - Salt Water 840

CASING & TUBING

10 28
8-1/4 302
6-5/8 1287

Stratum	Grain	Color	Thickness	Notes	Grain	Color	Thickness	Notes
Creek Sand & Gravel	yl	s	0 28		Slate	dk	s	1984 2011
Sand	gr	s	28 44	FW 40 HF	Shale	bn	s	2011 2021
Slate	dk	s	44 64		Berea Sand	wh	h	2021 2051
Sand	gr	s	64 79		Shell	dk	h	2051 2068
Slate	dk	s	79 101		Sand	gr	h	2068 2082
Sand	wh	h	101 122		Shell	wh	h	2082 2104
Slate	dk	s	122 146		Slate	dk	s	2104 2134
Sand	gr	s	146 156		Slate&Shells	dk	s	2134 2184
Slate	gr	s	156 180		Slate	wh	s	2184 2199
Sand	wh	h	180 195		Shell	wh	h	2199 2214
Slate	lt	s	195 215		Slate	lt	s	2214 2262
Sand	wh	s	215 255		Slate&Shells	gr	s	2262 2495
Slate	dk	s	255 418		Slate	dk	s	2495 2554
Sand	wh	s	418 453		Slate	lt	s	2554 2603
Slate	dk	s	453 511		Slate	dk	s	2603 2654
Sand	gr	s	511 552		Slate	wh	s	2654 2691
Slate	dk	s	552 564		Shale	bn	s	2691 2823
Sand	dk	s	564 597		Slate	wh	s	2823 2829
Slate	dk	s	597 700		Shale	bn	s	2829 2988
Sand	wh	s	700 759		Slate	gr	s	2988 3017
Slate	dk	s	759 779		Slate&Shells	gr	s	3017 3168
Salt Sand	wh	s	779 825		Slate	gr	s	3168 3202
Slate	lt	s	825 834		Slate	dk	s	3202 3254
Sand	wh	s	834 865	SW 840 HF	Shell	dk	h	3254 3260
Slate	gr	s	865 867	Gas 840	Shale	bn	s	3260 3328
Sand	wh	h	867 899	drowned out	Cornf. Lime	gr	s	3328 3365
Sand	wh	s	899 953		Cornf. Lime	wh	h	3365 3389
Slate	dk	s	953 961		Cornf. Lime	gr	h	3389 3429
Sand	gr	s	961 974		Cornf. Lime	dk	h	3429 3457
Slate	wh	s	974 1005		Cornf. Lime	gr	h	3457 3496
Sand	wh	s	1005 1041		Cornf. Lime	dk	h	3496 3505
Slate	dk	s	1041 1081		Cornf. Lime	gr	h	3505 3532
Slate	wh	s	1081 1086					Gas 3532
Sand	wh	m	1086 1150					52,000 c.f.
Slate	gr	s	1150 1172		Cornf. Lime	gr	h	3532 3579
Red Rock	rd	s	1172 1186					Gas 3554-
Slate	dk	s	1186 1233					3566
Little Lime	dk	h	1233 1253		Cornf. Lime	dk	h	3579 3597
Slate	dk	s	1253 1257		Cornf. Lime	gr	h	3597 3606
Big Lime	wh	h	1257 1287		Cornf. Lime	dk	h	3606 3737
Big Lime	wh	h	1287 1442	Sh. Gas at	Cornf. Lime	dk	h	3737 3819
Keener Sand	gr	h	1442 1456	1341-1343	Total Depth			3819
Red Sand	h		1456 1462					
Red Rock	rd	s	1462 1482					
Big Injun	wh	h	1482 1497	Gas 1489				
Shell	gr	h	1497 1528	15,000 cf.				
Sand Shells	gr	h	1528 1560					
Slate&Shells	wh	h	1560 1597					
Lime	gr	h	1597 1634					
Slate&Shells	gr	s	1634 1984					

3328
729

2599