



New Location
 Drill Deeper
 Abandonment

Company THE OHANE LIBBY OYENS GAS DEPT
 Address BOX 1276 CHARLESTON W.VA.
 Farm BULL CREEK COAL LAND CO
 Tract _____ Acres 4000 Lease No. 16
 Well (Farm) No. 17 Serial No. 603
 Elevation (Spirit Level) 744.7
 Quadrangle PEYTONA NW
 County BOONE District PEYTONA
 Engineer T.S. JOHNSON
 Engineer's Registration No. 289
 File No. _____ Drawing No. _____
 Date APR 9 1941 Scale 1" = 1000 FT.

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

WELL LOCATION MAP
 FILE NO. Boo-499-DD

† 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.

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

Permit No. Boo-499
-Quad

Gas Well

Company The Owens, Libbey-Owens Gas Dpt.
Address P.O. Box 1375, Charleston, W. Va.
Farm Bull Creek Coal Land Co. ACRES- 4,000
Location Bull Creek
Well No. 603 ELV. - 747.3D. F.
District Peytona Boone County
Surface & Mineral Bull Ck. Coal Ld. Co., 806 Ellicott Square
Buffalo, N. Y.
Commenced May 27, 1941
Completed Aug. 30, 1941
Shot Aug. 27, 1941 Depth - 4318-4330
Volume Big Lime 94 Mcf- Oriskany 119M
Rock Pressure B. L. 116#0.1050lbs. 72hrs.
Fresh Water 30'

CASING & TUBING
13 28' 28'
8 1/2 1059' 1059'
6-5/8 4256' 4256'
3 69' 69'
2 4355' 4355'
Packer - Spang
Size - 7" x 2-3/8"
Depth - 4275'
Perf. top - 4346'
Bottom - 4351'

Sand & Gravel	y	0	25	Shell Wh	h	1753	1773
Slate	s	25	46	Slate Wh	s	1773	1793
Fresh Water			30'	Slate & Shells	s	1793	1866
Sand Dark	h	46	181	Shells Wh	h	1866	1900
Slate Wh	s	181	216	Slate & Shells	s	1900	1990
Sand Wh	s	216	249	Slate & Shells	s	1990	2359
Slate Lt	s	249	269	Slate & Shells	s	2359	2442
Sand Lt	h	269	424	Slate & Shells	s	2442	2861
Slate Dk	s	424	426	Slate & Shells	s	2861	2926
Sand Wh	h	426	439	Slate & Shells	s	2926	3011
Slate & Shells		439	474	Shell	h	3011	3021
Sand Wh	h	474	597	Slate Dk	s	3021	3049
Broken Slate		597	615	Shell Gr	h	3049	3064
Slate Dk	s	615	617	Slate & Shells	s	3064	3162
Shell Dk	h	617	626	Shale -441 Br	s	3162	3197
Slate Dk	s	626	642	Slate & Shells	s	3197	3222
Slate & Shells		642	669	Slate & Shells	s	3222	3295
Sand Wh	h	669	684	Slate & Shells	s	3295	3305
Slate Dk	s	684	686	Shale Br	s	3305	3451
Sand Wh	h	686	859	Slate & Shells	s	3451	3910
Red Rock	s	859	865	Shale Br	s	3910	3970
Slate Lt	s	865	888	Shale Dk	s	3970	4189
Sand Wh	h	888	899	Shale Blk	s	4189	4221
Slate Lt	s	899	911	Corniferous gr	h	4221	4317
Red Rock	s	911	916	Oriskany Wh	h	4317	4324
Slate & Shells		916	931	Gas		4321-4331'	223,000 CF
Red Rock	s	931	936	Lime Brn	h	4324	4345
Slate Lt	s	936	946	Lime Dk	h	4345	4351
Shell	h	946	956	TOTAL DEPTH			4351
Slate Lt	s	956	974				
Little Lime	h	974	1009				
Slate Wh	s	1009	1023				
Lime	h	1023	1037				
Lime Wh	h	1037	1046				
Slate	s	1046	1050				
Lime Wh	h	1050	1059				
Lime Wh	h	1059	1209				
Gas		1146-48'	133,000CF				
Py Injun r	h	1209	1252				
Slate & Shells		1252	1289				
Slate Dk	s	1289	1306				
Shells Dk	h	1306	1362				
Slate	s	1362	1365				
Shells Dk	h	1365	1381				
Slate Dk	s	1381	1401				
Slate & Shells		1401	1442				
Slate & Shells		1442	1676				
Slate & Shells		1676	1684				
Shells Dk	h	1684	1699				
Slate & Shells		1699	1733				
Slate Wh	s	1733	1753				



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

TO DEEPEN

PEYTONA

WELL RECORD

Oil or Gas Well

GAS (KIND)

Permit No. B00-499 D.D.

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT Address P. O. Box 4168, Charleston, W. Va. 25304 Farm BULL CREEK COAL LAND CO. Acres 4,000

Location (waters) Well No. 17 (Serial No. 603) Elev. 747.3 District Peytona County Boone

The surface of tract is owned in fee by Orlandi Coal Co. 5206 Washington Ave. SE Address Charleston, W. Va. 25304

Mineral rights are owned by Bull Creek Coal Land Co. 44 Lyman Road Address Buffalo 26, N. Y.

Deepening Drilling commenced 8-11-67 Drilling completed 19-25-67

Date Shot From To With

Open Flow /10ths Water in Inch /10ths Merc. in Inch

Volume Newberg Sand 477 M Cu. Ft. Rock Pressure 1490 lbs. 46 hrs.

Oil bbls., 1st 24 hrs. WELL ACIDIZED

WELL FRACTURED 10-23-67 Dowell fraced Newberg Sand -- see remarks.

RESULT AFTER TREATMENT ROCK PRESSURE AFTER TREATMENT # 1490

Fresh Water Feet Salt Water Feet

Table with 8 columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Includes geological data and test results.

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Hookwall Packer set 10-10-67							
Test 10:30 A.M.			83 M				
McCullough ran gamma-ray, density, neutron, and temperature logs.							
10-12-67							
Pulled 5-1/2" casing. Total of 4954'1" of 5-1/2" casing pulled. Fished for packer rubber.							
10-17-67							
Ran 4-1/2" casing to 5022-1/2'. Set casing 1-1/2' off bottom.							
Set casing on shoe and used 11 casing centralizers. Also used 7 shock masters on casing.							
Well Service cemented 4-1/2" casing with 100 sacks resiment from 5024 to 4084 ft.							
10-18-67							
McCullough perforated the 4-1/2" casing from 4982' to 4979' using Densi Jets. Total of 14 holes.							
Test after bailed dry:			64 MCF				
10-23-67							
Dowell fraced the Newberg Sand using 500 gallons mud acid, 18,000# 20-40 sand, and 736 bbls. water.							
10-25-67							
Test: 9 A.M.		336 M	Heavy mist.				
10-27-67							
22 hr. rock pressure 1200#							
Blew 4-1/2" casing at 9:15 A.M.							
Test: 3:15 P.M.		346 M	Very light mist.				
11-3-67							
47 hour rock pressure 1400#							
Blew 4-1/2" casing at 9:20 A.M.							
Test: 3:20 P.M.		477 M	Light spray.				
11-10-67							
46 hour rock pressure 1490#							
Blew well 9 A.M.							
Test 6 hours		477 M	Light mist.				
Well shut in.							

Date November 27, 1967

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By T.E. Mollering (Title)