

New Location..   
 Drill Deeper.....   
 Abandonment.....

Company OWENS, LIBBEY-OWENS GAS DEPT.  
 Address BOX 4158 CHARLESTON 4, W.VA.  
 Farm MAMIE ELLIS  
 Tract \_\_\_\_\_ Acres 92 Lease No. 2346  
 Well (Farm) No. 1 Serial No. 1048  
 Elevation (Spirit Level) 663.97  
 Quadrangle WAYNE-WC  
 County WAYNE District BUTLER  
 Engineer T. S. FLOURNOY  
 Engineer's Registration No. 269  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date \_\_\_\_\_ Scale 1" = 400 FT.

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

**WELL LOCATION MAP**  
 FILE NO. WAY-1117

+ 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.

*Deep Well*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION /3

Quadrangle Wayne

Permit No. Way-1117

**WELL RECORD**

Oil or Gas Well Dry Hole  
(KIND)

Company Owens, Libbey-Owens Gas Department  
Address P. O. Box 4168, Charleston 4, W. Va.  
Farm Mamie Ellis Acres 92

Location (waters) \_\_\_\_\_  
Well No. 1 (Serial No. 1048) Elev. 663.97  
District Butler County Wayne

The surface of tract is owned in fee by C. W. Trautwein  
R.F.D. #1 Address Wayne, W. Va.

Mineral rights are owned by same  
Address \_\_\_\_\_

Drilling commenced 9-10-58

Drilling completed 1-29-59

Date Shot 2-2, 2-3, 2-13 from 3659-3710

With 225# Gel., 317# Gel., 3659-3711 1400# Hercules Powder

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

Volume \_\_\_\_\_ Cu. Ft.

Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

WELL ACIDIZED \_\_\_\_\_

WELL FRACTURED \_\_\_\_\_

RESULT AFTER TREATMENT \_\_\_\_\_

ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_

Fresh Water 84', 152, 350 Feet

Salt Water 760 Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13			
10			Size of _____
8 5/8	223'6"	223'6"	
7	1493'5"	1493'5"	Depth set _____
5 x 1 1/2"	3301	3301	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

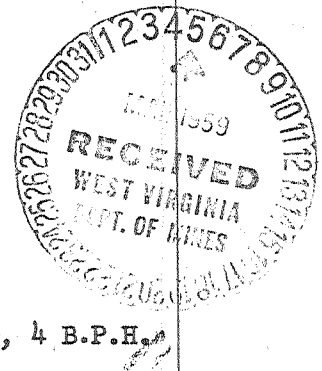
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	Yellow	Soft	0	15			
Sand	Yellow	Soft	15	25			
Clay	Blue	Soft	25	40			
Slate	Blue	Soft	40	74			
Sand	Grey	Soft	74	92	Water at 84', 1-1/2 B.P.H.		
Slate	White	Soft	92	142			
Sand	Light	Soft	142	157	Water at 152', 4 B.P.H.		
Slate	Dark	Soft	157	175			
Sand	Light	Soft	175	221	Water at 180', hole filling		
Slate	Light	Soft	221	233	9-12-58 Ran 8-5/8" casing on shoe at 223'6"		
Slate	Blue	Soft	233	265			
Sand	Light	Soft	265	273			
Slate	Grey	Soft	273	336			
Sand	Light	Soft	336	376	Water at 350', 3 B.P.H.		
Slate	Dark	Soft	376	388			
Slate & Shells	Light	Soft	388	418			
Sand	Light	Soft	418	441			
Slate	Light	Soft	441	461			
Sand	Light	Soft	461	486			
Slate	Light	Soft	486	497			
Slate	Dark	Soft	497	558			
Sand	Light	Soft	558	578			
Slate	Dark	Soft	578	610			
Sand	Light	Soft	610	618			
Sand & Sl.	Light	Soft	618	673			
Sl. & Shls.	-	-	673	721			
Slate	Dark	Soft	721	727			
Sand	Light	Soft	727	994	Water at 760, 4 B.P.H.		



(over)

Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand	Light	Med	994	1011			
Slate	Light	Soft	1011	1023			
Slate	Dark	Soft	1023	1037			
Sand	Light	Med.	1037	1051			
Sand	Light	Soft	1051	1073			
Slate	Light	Soft	1073	1075			
Lime	Light	Med.	1075	1081			
Sand	Light	Med.	1081	1104			
Little Lime	Dark	Hard	1104	1118			
Slate Break	Light	Hard	1118	1119			
Big Lime	Light	Hard	1119	1283			
Grey Injun	Grey	Med.	1283	1291			
Slate	Light	Soft	1291	1307			
Grey Injun	Grey	Med.	1307	1321			
Slate	Dark	Soft	1321	1327			
Sand	Grey	Med.	1327	1374			
Slate	Light	Soft	1374	1382			
Sand, Bro.	Grey	Soft	1382	1480			
Shells	Grey	Med.	1480	1485			10-2-58 Ran 7" casing on shoe at 1482'6" did not shut off water
Shells	Grey	Med.	1485	1491			10-6-58 Pulled 7" casing
Shells	Dark	Hard	1491	1493			10-8-58 Ran 7" casing at 1492'3" on shoe
							10-13-58 Pulled 7" casing
							10-15-58 Ran 7" casing on shoe at 1493'
							10-17-58 Pulled 7" casing; (7" re-ran 7" casing at 1493'5" on bottom hole packer
Shells	Dark	Hard	1496	1568			
Sl. & Shls.	Dark	Soft	1568	1597			
Sl. & Shls.	Grey	Soft	1597	1628			
Sl. & Shls.	Light	Soft	1628	1660			
Slate	Dark	Soft	1660	1707			
Sl. & Shls.	Light	Soft	1707	1719			
Slate	Light	Soft	1719	1827			
Shells	Light	Hard	1827	1835'			
Slate	Light	Soft	1835	1847			
Shells	Light	Hard	1847	1860			
Sl. & Shls.	Light	Soft	1860	1890			
Shale	Dark	Soft	1890	1900			
Slate	Light	Soft	1900	1905			
Shale	Brown	Soft	1905	1910			
Berea	Dark	Hard	1910	1915	Gas 1912',		35 MCF
Shells	Light	Hard	1915	1922			
Slate	Light	Soft	1922	1925			
Shells	Light	Hard	1925	1930			
Gritty Lime	Light	Hard	1930	1955			
Sl. & Shls.	Light	Med.	1955	1959			
Shells	Light	Hard	1959	1961			
Gritty Shells	Light	Med.	1961	1978			
Shells	Light	Hard	1978	1987	Test 1987,		3.4 MCF
Gritty Shells	Light	Med.	1987	2007			
Slate	Light	Soft	2007	2027			
Slate	Light	Soft	2027	2042			
Br. Shale	Brown	Soft	2042	2140			
Sl. & Shls.	Light	Soft	2140	2268			
Br. Shale	Brown	Soft	2268	2377	All gas gone at 2298'		
Sl. & Shls.	Light	Soft	2377	2459			
Br. Shale	Brown	Soft	2459	2529			
Slate	Light	Soft	2529	2552			
Slate	Light	Soft	2552	2572			
Br. Shale	Brown	Soft	2572	2744			
Slate	Light	Soft	2744	2940			
Br. Shale	Brown	Soft	2940	2965			
Corn. Lime	Dark	Hard	2965	2986			
Corn. Lime	Light	Hard	2986	3025			

Date March 4, 19 59

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By A. H. Smith  
A. H. Smith (Title) Geologist



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 13A

Quadrangle Wayne

Permit No. Way-1117

WELL RECORD

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(KIND)

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Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced \_\_\_\_\_  
Drilling completed \_\_\_\_\_  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED \_\_\_\_\_

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT	FEET	INCHES	
	FEET	INCHES	
	FEET	INCHES	

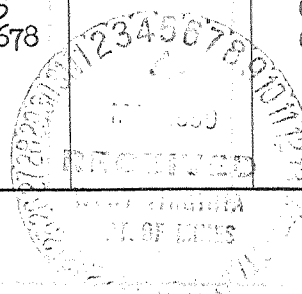
RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Continued:							
Corn, Lime	Light	Hard	3025	3034			
Corn, Lime	Grey	Hard	3034	3048			
Corn, Lime	Light	Hard	3048	3064			
Corn, Lime	Dark	Hard	3064	3091			
Corn, Lime	Grey	Hard	3091	3109			
Corn, Lime	Dark	Hard	3109	3142			
Lime	Dark	Hard	3142	3299	Water & gas between 3091 and 3142 ft. 12-1-58 In 35 hr. test over weekend, well made 20 gal. water and oil, mostly oil. Water was sulfurous. Gas - sulfurous - also began to show up. Test 12 P.M. 490 cu. ft. Gas 3155-61 849 cu. ft. Gas 3176 1.5 MCF Test 3295, 3297, 3299 1.3. 12-9-58 Ran 5-1/2" casing at 3301' on shoe; used 10 sacks gel & 25 sacks cement.		
Lime	Dark	Hard	3305	3451			
Lime	Dark	Hard	3451	3628			
Lime	Dark	Hard	3628	3660			
Big Six Sand	Dark	Hard	3660	3670	Gas 3663 520 cu. ft. Gas 3665 4.4 MCF Gas 3670 5.8 Gas 3675 6.2 Gas-? 3678 6.3		
Big Six Sand	Light	Hard	3670	3710			
Slate	Dark	Soft	3710	3716			
Red Rock	Red	Soft	3716	3858			
Slate	Dark	Soft	3858	3895			
Red Rock	Red	Soft	3895	3953			

(over)



Formation	Color	Hard or Soft	Top 13A	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock	Red	Soft	3953	3988			
Lime	Dark	Hard	3988	4005			
Slate	Dark	Soft	4005	4013			
Red Rock	Red	Soft	4013	4041			
Lime	Dark	Hard	4041	4057			
Red Rock	Red	Soft	4057	4062			
Clinton Sand	Light	Hard	4062	4072			
Clinton Sand	Light	Hard	4072	4087			
Lime	Dark	Hard	4087	4092			
Slate	Light	Soft	4092	4102			
Red Rock	Red	Soft	4102	4107			
		Total	Depth	4107			
					2-2-59		
					Shot Clinton Sand with 225# Gelatin from 4061 to 4096 ft.		
					Test before shot: (Big Six) 4.4 MCF		
					" 45 Min. after bridge out: 29.3		
					2-3-59		
					Shot Big Six Sand with 317# Gelatin from 3659-1/2 to 3710-1/2 ft.		
					Test before shot: 4.4 MCF		
					" 15 Min. A.S.: 75.		
					7 Hrs. A.S.: 15.		
					2-13-59		
					Shot Big Six Sand second time with 1400# Hercules Powder 3659 to 3711 ft.		
					Test before shot: 12.2 MCF		
					" 15 Min. A.S.: 112.		
					23 Hrs. A.S.: 23.5		
					2-14-59		
					Filled shot hole to 3630 ft. with rock and clay.		
						3630 - 3628	Lead Plug
						3628 - 3626	200# lead wool
						3626 - 3619	1 bag Cal Seal
							500# lead wool to 3616 ft.
					Inspector present.		
					All gas shut off.		
						3616 - 3606	Rock
						3606 - 3596	Clay
							1 bag Cal Seal.
							2 bags cement to 3586
						3586 - 3573	Rock & clay
					2-21-59		
					Ripped 5" casing and tried to pull at every joint beginning with 8th joint above bottom and finally pulled pipe after ripping at 20th joint.		
					Bailed out Aqua-gel.		
					Set bridge at 2429 ft., then 10 ft. rock, 3 bags cement, 1 bag Cal Seal.		
					Top of plug 2411 ft.		
					Inspector present when plugging.		
					3-2-59		
					Shot shale from 2040 to 2410 ft.		
					Test before shot: 0		
					" 15 Min. A.S.: 153 MCF		
					" 4 Hrs. A.S.: 0		
					Set rock bridge from 1935 to 2010 ft.		
					2-1/2 sacks cement to 1925 ft.		
					Shot Berea Sand from 1910 to 1925 ft.		
					Test before shot: 0		
					" 3 Hrs. A.S.: 6 MCF		
					3-3-59		
					Decided to plug well.		

Date March 4, 1959

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By A. H. Smith (Title) Geologist