

Company **OWENS, LIBBEY-OWENS, GAS DEPT.**

Address **BOX 4158 CHARLESTON 4, W.VA.**

Farm **A. S. BEHREND**

Tract \_\_\_\_\_ Acres **213** Lease No. **2786**

Well (Farm) No. **1** Serial No. **1025**

Elevation (Spirit Level) **800.76**

Quadrangle **LOGAN NW**

County **LOGAN** District **CHAPMANVILLE**

Engineer **T. S. Journey**

Engineer's Registration No. **269**

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date **March 24 1955** Scale **1" = 500 FT.**

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

**WELL LOCATION MAP**

FILE NO. LOG-744

+ 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.

K&E 150 IMPERIAL TRACING CLOTH T.M. 9555

No Samples 3-3 24 Deep Well



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 9

Quadrangle Logan

Permit No. Log-744

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Owens, Libbey-Owens Gas Department  
Address P. O. Box 4168, Charleston 4, W. Va.  
Farm A. S. Behrend Acres 213  
Location (waters) \_\_\_\_\_  
Well No. 1 (Serial No. 1025) Elev. 800.76  
District Chapmanville County Logan

The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_

Mineral rights are owned by A. S. Behrend  
4915 Wolcott Ave., Apt. A 2 Chicago 40, Ill.

Drilling commenced 4/9/59

Drilling completed 6/24/59 6/18/59 1198 1308 1/2

Date Shot 7/7/59 From 2920 To 3935

With 766-2/3# Trojan Powder; 9750# Trojan powder

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

\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume Big Lime 191M, Shale & Corn. Lime 46 Cu. Ft.

Rock Pressure 400# - shale lbs. 168 hrs.

Oil None \_\_\_\_\_ bbls., 1st 24 hrs.

Fresh water 30, 40, 103, 191-197, 232, 310 feet

Salt water \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 5/8	158'11"	158'11"	Oilwell hookwall
10 3/4	624'2"	Pulled	Size of <u>3 1/2 x 7 x 16</u>
8 5/8	686'9"	686'9"	
7	1120'6"	1120'6"	Depth set <u>1322-1326</u>
5 3/16			
3 1/2	1306'7"	Pulled	Part of <u>2'6"</u> from
2 3/4	---	1328'2"	Part bottom DF to
Liners Used			Part of <u>ground.</u>
			Perf. bottom

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

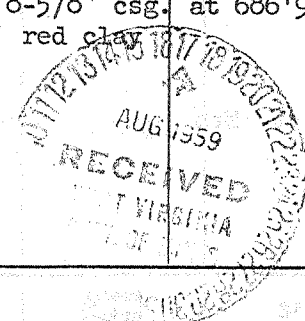
COAL WAS ENCOUNTERED AT 560 FEET 36 INCHES

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

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	yellow	soft	0	6			
Sand	grey	hard	6	48			
Slate	brown	soft	48	55	Water at 30', 1/2 BPH		
Sand	grey	hard	55	82	Water at 40', 2 BPH		
Sand	grey	hard	82	122			
Sand	white	hard	122	184			
Sand	white	med.	184	233			
Slate	grey	soft	233	240	Water at 103', 8 BPH		
Sand	grey	hard	240	265	Ran 13-5/8" csg. at 158'11" on shoe in 6' red clay.		
Sand	grey	med.	265	283	Water 191-7, 6 BPH		
Slate	dark	soft	283	285	Water at 232', 8 BPH		
Sand	grey	med.	285	325			
Slate	dark	soft	325	336	Water at 310', hole filling		
Sand	grey	hard	336	347			
Slate	dark	soft	347	380			
Sand	grey	hard	380	560			
Coal	black	soft	560	563			
Slate	dark	very soft	563	567			
Lime	dark	very hard	567	572			
Slate	dark	soft	572	591			
Water sand	light	hard	591	643			
Shells	black	hard	643	652			
Slate	black	soft	652	668			
Lime shells	dark	hard	668	678			
Slate	dark	soft	678	689			
Lime shells	black	hard	689	696			
Sand	grey	ext. hard	696	703			
Sand	white	hard	703	737			
Red rock	red	soft	737	779			
Shale	grey	soft	779	789			
Shells	dark	hard	789	794			

(Over)



Formation	Color	Hard or Soft	Top <sup>9</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime	black	med.	794	804			
Red rock	red	soft	804	819			
Slate	black	soft	819	842			
Red rock	red	soft	842	863			
Slate	grey	soft	863	878	5/4/59		Pulled 10-3/4" csg. at 624'4"
Lime shells	light	hard	878	915			
Red rock	red	soft	915	932			
Slate	grey	soft	932	973			
Red rock	red	soft	973	993			
Slate	grey	soft	993	1037			
Little lime	black	hard	1037	1073			
Sl. & shls.	black	soft	1073	1089			
Big Lime	light	hard	1089	1105			
Big Lime	dark	hard	1105	1146	4/8/59		Ran 7" csg. at 1120'6" on shoe set in red clay
Gritty lime	dark	hard	1146	1160			
Big Lime	white	hard	1160	1196			
Gritty lime	grey	hard	1196	1205			Gas 1196 794 cu. ft. Gas 1200 4.6 MCF Gas 1205 5.1 " Gas 1209 10.4 " Gas 1216 27 " Gas 1220 28 "
Big Lime	white	hard	1205	1223			
Red Injun	red	med.	1223	1228			
Big Lime	white	hard	1228	1231			
Gritty lime	white	hard	1231	1235			
Lime	white	hard	1235	1245	Test 1245		27 MCF
Big Lime	dark	hard	1245	1276			
Big Lime	white	hard	1276	1335	Gas 1297 33.2 MCF Gas 1302 37.5 "		
Red Injun	red	soft	1335	1370			
Sl. & shls.	dark	soft	1370	1449			
Weir shells	grey	hard	1449	1507			
Sl. & shls.	dark	soft	1507	1799	Test 1799		34.1 MCF
Slate	dark	soft	1799	1815			
Coffee shale	brown	soft	1815	1832			
Berea	dark	hard	1832	1849			
Slate	dark	soft	1849	1892			
Shells	dark	hard	1892	1904			
Sl. & shls.	dark	med.	1904	1930	Test 1908		34.1 MCF
Sl. & shls.	dark	soft	1930	1969			
Sl. & shls.	dark	soft	1969	2019			
Slate	dark	soft	2019	2029			
Shells	dark	hard	2029	2033			
Slate	dark	soft	2033	2045			
Shell	dark	hard	2045	2055			
Sl. & shls.	dark	med.	2055	2090			
Sl. & shls.	dark	soft	2090	2487	Tests 2100 - 2487		31 MCF
Shells	dark	med.	2487	2507			
Sl. & shls.	dark	soft	2507	2921			
Br. shale	brown	soft	2921	2940	Test 2940		30 MCF
Shell	brown	hard	2940	2952			
Br. shale	brown	soft	2952	2995			
Shells	brown	hard	2995	3020			
Br. shale	brown	soft	3020	3293			
Slate	white	soft	3293	3521			
Br. shale	brown	soft	3521	3530			
Slate	white	soft	3530	3646			
Br. shale	brown	soft	3646	3753			
Br. shale	brown	soft	3753	3834	Tests 3819, 3833, 3837, 3839, 3843, 3850, 3855, 3859 = 29 MCF		
Corn. lime	grey	hard	3834	3926	Gas 3862, 3866, 3870, 3875 = 32 MCF		
Sandy corn. lime	dark	hard	3926	3935			
			T. D. 465	3935			

Date July 22, 19 59

APPROVED Owens, Libbey-Owens Gas Department, Owner

By A. H. Smith  
A. H. Smith, Mgr. (Title)  
Land, Engr., & Geo.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 7A

Quadrangle Logan

WELL RECORD

Permit No. Log-744

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Address \_\_\_\_\_  
Mineral rights are owned by A. H. Behrend  
Address \_\_\_\_\_  
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.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

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

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 Found	Remarks
			T. D. A. S.	3767	Test 3935		31.3 MCF
		1832 801 1031			Set bridge at 1359; filled to 1308'6"		
					6/24/59 Shot well with 766-2/3# Trojan powder from 1198 to 1308 1/2 (12:22 P.M.) Tamped with 60' pea gravel. T. B. set for 3 hrs.		
					Test B. S.		31.3 MCF
					After tamp out; while cleaning out:		
					6 hrs.		346 MCF
					18 hrs.		310 "
					45 hrs.		235 MCF
					7/2/59 Drilled out bridge below Big Lime.		
					7/7/59 Opened well. Shot well with 9750# Trojan powder (195-50# shells) from 2920 to 3935'. Test B. S.		240 MCF
					15 min. A. S.		1449 MCF
					30 min. A. S.		858 MCF
					1 hr. A. S.		504 MCF
					10 hrs.		264 MCF
					19 hrs.		235 MCF
					7/8/59 Ran 3 1/2" tbg. at 1328'2" with "Oilwell" hookwall pkr., tbg. 2' above rig floor.		
					F.O.F. Big Lime		191 MCF
					Shale & Corn. Lime		46 MCF
							237 MCF
					Shut in in 3 1/2" tbg. 22-3/4 hrs. A.S. (3:30 P.M.)		

