

- New Location.
- Drill Deeper.
- Redrill
- Abandonment

40
 5.12 S.
 2.56 W.
 9 SC (5-2) BK. 119-P. 15-17

Company Owens, Libbey-Owens Gas Dept.
 Address Box 4168 Charleston W. Va.
 Farm G.M. Burgess Etal
 Tract _____ Acres 450 Lease No. 2574
 Well (Farm) No. 5 Serial No. 1114
 Elevation (Spirit Level) 770.61
 Quadrangle Guyandot-5W
 County Wayne District Union
 Engineer T.S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date Dec. 12, Scale 1" = 500 Ft.

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

WELL LOCATION MAP
 FILE NO. WAY-1336

+ 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.

No Samples 6-6-22-24 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 19

Quadrangle Guyandot

Permit No. Way-1336

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston 4, W. Va.
Farm G. M. Burgess Acres 450

Location (waters) _____
Well No. 5 (Serial No. 1114) Elev. 770.61
District Union County Wayne

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by G. M. Burgess & Shirley Ferguson
Marian B. Leach Address 309 Lock Lane
Wayne, West Virginia
Richmond, Va.

Drilling commenced 7-4-61
Drilling completed 12-5-61

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 _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10 3/4"	402'8"	402'8"	Size of
8 5/8"	1364'5"	Pulled	
7"	2239'1"	2239'1"	Depth set
5 1/2"	4023'7"	4023'7"	
3			Perf. top 3942
2			Perf. bottom 3950
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 4 1/2" SIZE 4023'7" No. Ft. 10-2-61 Date
Dowell cemented with 85 sacks of cement and 50#
Flac pumped in hole.
COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED Fraced Big Six Sand three times -- See Remarks

RESULT AFTER TREATMENT 75 MCF Big Six

ROCK PRESSURE AFTER TREATMENT 690 lbs. in 127 hrs.

Fresh Water 402-455 Feet _____ Salt Water 1095, 1598 Feet 1650-1691

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface	Dark	Soft	0	11			
Sand	Dark	Med.	11	55			
Slate	Grey	Soft	55	70			
Red Rock	Red	Soft	70	85			
Slate	Dark	Soft	85	120			
Slate	Grey	Soft	120	130			
Red Rock	Red	Soft	130	146			
Slate	Dark	Soft	146	187			
Slate	Grey	Soft	187	227			
Sand, Bro.	Grey	Soft	227	250			
Slate	Dark	Soft	250	355			
Sand, Bro.	Grey	Med.	355	370			
Sand	Light	Med.	370	391			
Sand, Bro.	Light	Soft	391	402			
							SIM 402 = Sand IM 401 7-8-61
							Installed 10-3/4" casing at 402' on Larkin Csg. Shoe set in red clay Water 402-455', 1 BPH
Sand	Grey	Soft	402	456			
Slate	Grey	Soft	456	475			
Slate	Dark	Med.	475	525			
Sand	White	Med.	525	591			
Slate	Dark	Soft	591	608			
Sand	Dark	Med.	608	618			Water test 608-628', 1 BPH
Sand	White	Med.	618	628			
Slate	Dark	Med.	628	678			
Sand	Light	Med.	678	695			
Slate	Dark	Soft	695	707			
Sand	Light	Med.	707	750			Water test 710-750', 1/2 BPH
Slate	Dark	Soft	750	759			

Formation	Color	Hard or Soft	Top / 19	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Grey	Soft	759	826			
Slate	Dark	Soft	826	895			
Slate	Dark	Med.	895	910			
Sand	White	Hard	910	951			
Sand, Bro.	Dark	Med.	951	1024			
Sand	White	Hard	1024	1050			
Water Sand	White	Med.	1050	1128	Water 1095'	hole full	
Sand	White	Med.	1128	1142			
Slate	Dark	Soft	1142	1199			
Sand	Dark	Hard	1199	1221			
Sand	White	Hard	1221	1270			
Slate	Dark	Med.	1270	1277			
Sand	Dark	Hard	1277	1299			
Slate	Dark	Med.	1299	1320			
L. Lime	Dark	Hard	1320	1348			
Big Lime	White	Hard	1348	1357			
Break	White	--	1357	1361			
Big Lime	White	Hard	1361	1515	SIM 1364 = Sand IM 1361 7-24-61		
					Installed 8-5/8" casing at 1364' on shoe set in red mud with 2 centralizers set at 1358' 7" and 1292' 10"		
Grey Injun	Grey	Hard	1515	1545			
Grey Injun	Grey	Med.	1545	1738			
Sl & Shls	Dark	Soft	1738	1785	Water 1650-1691', 2 BPH		
Slate	Dark	Med.	1785	1962			
Sl & Shls	Dark	Med.	1962	2034			
Slate	Dark	Med.	2034	2069			
Lime Shells	Dark	Hard	2069	2085			
Shells	Dark	Hard	2085	2097			
Slate	White	Med.	2097	2130	SIM 2100 = Sand IM 2099		
Coffee Shale	Brown	Soft	2130	2148			
Br. Shale	Brown	Med.	2148	2160			
Berea	Dark	Hard	2160	2215			
Slate	Dark	Med.	2215	2229			
Slate	Dark	Soft	2229	2233			
Shells	Dark	Hard	2233	2241	8-5-61		
					Installed 7" casing at 2239' 1" on Larkin Csg. shoe set in red clay with 2 centralizers at 2232' 9" & 2157' 3"		
Shells	Grey	Hard	2241	2249			
Slate	Grey	Med.	2249	2271			
Slate	White	Med.	2271	2280			
Br. Shale	Brown	Soft	2280	2360			
Slate	Grey	Med.	2360	2410			
Slate	White	Med.	2410	2445			
Slate	Grey	Med.	2445	2520	SIM 2470 = Sand IM 2468 8-10-61		
					Pulled 8-5/8" casing at 1364' 5"		
Br. Shale	Brown	Soft	2520	2683			
Slate	White	Med.	2683	2703			
Br. Shale	Brown	Med.	2703	2884			
Slate	White	Med.	2884	2892			
Br. Shale	Brown	Med.	2892	3025			
Slate	White	Med.	3025	3227			
Br. Shale	Brown	Med.	3227	3275			
Corn. Lime	Grey	Hard	3275	3500	Gas 3286' 245 cu. ft. Test 3416' 212 cu. ft. Small show of Black water 3450-3459'		
Corn. Lime	Dark	Hard	3500	3514			
Corn. Lime	Grey	Hard	3514	3738			
Corn. Lime	Grey	Hard	3738	3792			
Corn. Lime	Dark	Hard	3792	3894			
Corn. Lime	Grey	Hard	3894	3909			
Corn. Lime	Dark	Hard	3909	3928			
Big Six	Grey	Hard	3928	3946	Gas 3746'	47.0 MCF (Top mok)	

Date December 28, 1961

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By A. H. Smith, Mgr. (Title Land, Engrg. & Geol.)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 19A

Quadrangle Guyandot

Permit No. Way-1336

WELL RECORD
(CONTINUED)

Oil or Gas Well GAS
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston 4, W. Va.
Farm G. Mr Burgess Acres 450
Location (waters) _____
Well No. 5 (Serial No. 1114) Elev. 770.61
District Union County Wayne
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
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.
WELL ACIDIZED _____
WELL FRACTURED _____

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

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

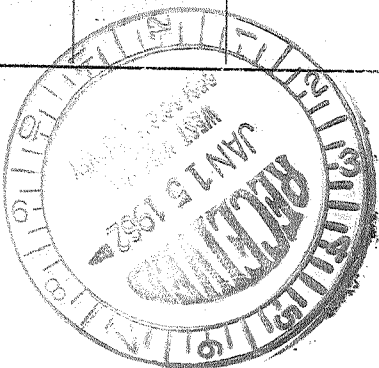
RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Big Six	Grey	Hard	3946	4000			
Slate	Grey	Med.	4000	4015			
Red Rock	Red	Soft	4015	4021	SIM 4021 = Sand IM 4020		
			Total Depth 4021		9-14-61		Well logged by Schlumberger; ran Temperature, Gamma Ray, Gamma-Gamma, and Induction logs.
					10-2-61		Installed 4023'7" of 4 1/2" casing at 4021' set on shoe with 5 centralizers set at 3990'10", 3897'6", 3804'8" 3707'1", 3608'6" and 3508'5"
							Dowell Division cemented 4 1/2" casing with 85 sacks of cement and 50# flac pumped in hole.
					10-9-61		Schlumberger perforated 4 1/2" casing from 3942-3950' at 4 shots per foot Schlumberger ran depth control and casing collar logs.
							Test 4021' 3.8 MCF
					10-11-61		Dowell Division acid fraced Big Six using 12,000 gal. 5% XF Acid and 15,000 lbs. 20-40 sand.
							Test 6 days after frac: 40 MCF
					10-24-61		Dowell Division fraced Big Six with

Formation	Color	Hard or Soft	Top / 7A	Bottom	Oil, Gas or Water	Depth Found	Remarks
					3,000 lbs. 20-40 sand and 1,200 lbs. 10-20 sand.		
					Total fluid used: 140 Bbls. (including 1,000 gals. acid)		
					Sand laden fluid used: 80 Bbls.		
					<u>10-27-61</u>		
					Gas tested	43 MCF	
					<u>11-29-61</u>		
					Dowell Division river fraced Big Six using 20,000 lbs. of 20-40 sand, 10,000 lbs. of 10-20 sand, 390 bbls. sand laden fluid and 560 bbls. total fluid.		
					<u>12-5-61</u>		
					Open 18 hrs.		
					Gas tested	75 MCF	
					Final Open Flow:		
					Big Six Sand:	75 MCF	



Date December 28, 1961

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By A. H. Smith, Mgr (Title) Land, Engrg. & Geol.