

Company PITTSBURGH E. W. VA. GAS CO.
 Address CLARKSBURG, W. VA.
 Farm JAMES B. HIGGINS
 Tract _____ Acres 300 Lease No. 3021
 Well (Farm) No. 162 Serial No. 1636
 Elevation (Spirit Level) AS SHOWN SC
 Quadrangle LITTLETON S.E. 13-4
 County WETZEL District GRANT
 Engineer Kenneth B. Moore
 Engineer's Registration No. _____
 File No. V-118 P. 58 Drawing No. _____
 Date JUNE 7, 1948 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. WET-676-A-#1636

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

1712

Ab 676-A

WELL RECORD

Permit No. _____ Oil or Gas Well Gas (KIND)

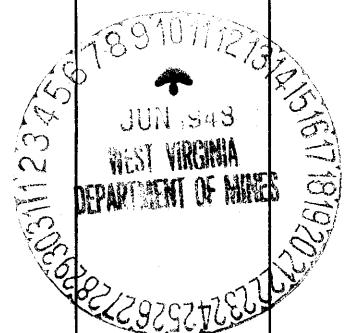
Company Pittsburgh W.Va. Gas Co
 Address Clarksburg W.Va.
 Farm James V. Higgins Acres 300
 Location (waters) Littleton SE 1/4
 Well No. 1636 Elev. 851 VA
 District Grant County Wetzel
 The surface of tract is owned in fee by J.O. Higgins
 Address Pine Grove W.Va.
 Mineral rights are owned by Archie Marshall A.F.
 Address Charleston W.Va.
 Drilling commenced July 19 1897
 Drilling completed Aug. 12 1897
 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 237 feet _____ feet
 Salt water 1357-60 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	148	148	
10	955	955	Size of
8 1/4	1308	1308	
6 3/4	1742	1742	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 482 FEET 120 INCHES
987 FEET 60 INCHES 1303 FEET 24 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Earth			0	17			
Slate	White	Soft	17	57			
Lime	"	"	57	62			
Slate	"	"	62	122			
Sand	"	Hard	122	157			
Slate	"	Soft	157	207			
Slate	Red	"	207	227			
Sand	White	"	227	237			
Lime	"	"	237	247	Sh. Water 237		
Slate	"	"	247	307			
Lime	"	"	307	367			
Slate	Red	Soft	367	377			
Slate	White	"	377	427			
Lime	"	Hard	427	467			
Slate	Black	Soft	467	482			
Pgh. Coal	"	"	482	492			
Slate	White	"	492	502			
Lime	Blue	Hard	502	507			
Slate	White	Soft	507	517			
Slate	Red	"	517	527			
Lime	White	Hard	527	542			
Slate	White	Soft	542	582			
Lime	"	Hard	582	587			
Slate	Red	Soft	587	602			
Slate	White	Soft	602	642			
Slate	Red	"	642	662			
Lime	White	"	662	677			
Slate	Red	"	677	707			
Slate	White	"	707	747			
Slate	Red	"	747	807			
Slate	White	"	807	857			
Lime	"	Hard	857	877			
Slate	Red	Soft	877	907			
Slate	White	"	907	937			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Black	Soft	937	977			
Slate	White	"	977	987			
Coal	Black	"	987	992			
Slate	White	"	992	1027			
L. Dunkard	White	Hard	1027	1062			
Slate	"	Soft	1062	1102			
Lime	"	"	1102	1127			
Slate	"	"	1127	1167			
Sand	"	"	1167	1187			
Slate	"	"	1187	1232			
Lime	"	"	1232	1242			
Slate	"	"	1242	1265			
1st Salt Sd	"	Hard	1265	1303			
Coal	Black	Soft	1303	1305			
2nd Salt Sd	White	Hard	1305	1410	Water	1357-60	
Slate	Black	Soft	1410	1420			
3rd Salt Sd	White	Hard	1420	1485	Water	1443	
Slate	Black	Soft	1485	1491			
Sand	Gray	Hard	1491	1528			
Lime	White	"	1528	1543			
Slate	Black	Soft	1543	1552			
Lime	White	Hard	1552	1582			
Slate	Blue	Soft	1582	1615			
Lime	White	Hard	1615	1633			
Red Rock	Red	"	1633	1662			
Maxon Sd.	Gray	"	1662	1672			
Slate	Dark	Soft	1672	1684			
Lime	White	Hard	1684	1705			
Slate	Blue	Soft	1705	1718			
L. Lime	White	Hard	1718	1725			
Pencil Cave	Black	Soft	1725	1730			
B. Lime	White	Hard	1730	1778			
B. Injun	"	"	1778	1900			
Slate	Black	Soft	1900	1905			
Squaw Sd	Gray	Hard	1905	1995			
Slate	Black	Soft	1995	2024			
Berea G.	Gray	Hard	2024	2040			
Lime	White	"	2040	2052			
Slate	Black	Soft	2052	2112			
Gantz Sd	White	Hard	2112	2130			
Slate	Blue	Soft	2130	2141			
Lime	White	Hard	2141	2208			
Slate	Black	Soft	2208	2323			
50ft. Sd.	Gray	Soft	2323	2339	Sh. Gas.	2328	
Slate	Black	Soft	2339	2355			
Sand	White	Hard	2355	2365			
Slate	Black	Soft	2365	2405			
Lime	White	Hard	2405	2435			
Red Rock	Red	Soft	2435	2450			
Lime	White	Hard	2450	2490			
Slate	Black	Soft	2490	2549			
Red Rock	Red	Soft	2549	2553			
Gov. Stray	Gray	Hard	2553	2605	Gas	2605-82	
Slate	Black	Soft	2605	2618			
Slate	White	"	2618	2651			
4th Sand	White	Hard	2651	2655	Gas	2652-54	
Slate	Black	Soft	2655	2665	Gas	2669	
Sand	White	Hard	2665	2670			
Slate	Black	Soft	2670	2708			
5th Sand	White	Hard	2708	2712			
Slate			2712				
Total Depth				2763			

Date June 8, 1948

APPROVED Pittsburgh & W. Va. Gas Co., Owner

By W. C. McMaster

(Title)

Record of Well No. 1636 Located on J. V. Higgins Farm 19
 Grant, District Wetzel County W. Va. State
 Division N District No. 12 Drilled under Well Order
 Rig built by Began 19 Completed 19
 Well drilled by Began 19 Completed Aug. 12 - 1899
 Depth of Well 1302 feet Size of Hole 5 7/8 Producing Gas
 Elev. 851 2763 6 5/8

CASED WITH

REMARKS

AMOUNT	SIZE	KIND	REMARKS
148'	18"		
955'	10"		
1315'	5 3/16"		
1308'	8 1/4"	Old	1-5 3/16 x 10" Reamer Packer (Reclaimed)
1742'	6 5/8"		

COAL VEINS

Pgh. about 541

FORMATIONS

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Salt sand	1265	1303				
Coal	1303	1305				
2nd salt sand	1305	1410			1357	4 Bails per Hr.
3rd "	1420	1628			1443	Hole full
Mason "	1662	1672				
Little Pine	1710	1725				
Big Limestone	1725	1770				Sept 27-1923. No. 343.
Big Sand	1770	1800				Repairing gas well no. 1636
Squaw sand	1910	1975				
Keena grit	2024	2080				
Sandy sand	2112	2130				
Fifth Foot	2323	2539		2328		slow.
Sandy Stray	2553	2605		2080-82		2.4 W1"
Fourth sand	2601	2655		2651-55		.6 W2"
Sand	2655	2670		2669		1.8 W2"
Fifth sand	2708	2712				1.0 W2"

Drilled

PRESSURE TEST IN <i>6 1/2</i> CASING		REMARKS
<i>1/2</i>	lbs.	
<i>1</i>	"	
<i>2</i>	"	
<i>5</i>	<i>4 1/2</i>	
<i>10</i>	<i>9</i>	
<i>15</i>	<i>16</i>	
<i>30</i>	<i>23</i>	
Rock Pressure <i>43</i> <i>125-19 lbs.</i> in		
Taken <i>July 11-1925</i> 19		
By		

WELL TUBED AND PACKED.....19.....

VIZ:-

FIRST PRESSURE TEST IN.....TUBING		REMARKS
<i>30 Sec.</i>	lbs.	
<i>1 Min.</i>	"	
<i>2 "</i>	"	
<i>5 "</i>	"	
<i>10 "</i>	"	
<i>15 "</i>	"	
<i>30 "</i>	"	
Rock Pressure <i>43</i> " in		
Taken <i>19</i>		
By		

MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

Drilling Deeper June 9-1925. W. O. 1821
11, 758 St. Lumbermen, @ 30° S. W. C. J. Bailey