

Latitude

Longitude

1.713  
.45w

Topo Location

7.5' Loc. \_\_\_\_\_ 15' Loc. \_\_\_\_\_  
 \_\_\_\_\_ (calc.) \_\_\_\_\_

Company Manufact L&H  
 Farm Jacob Bowers 1893  
 15' Quad \_\_\_\_\_  
 (sec.) \_\_\_\_\_  
 7.5' Quad Cameron  
 District Cameron

WELL LOCATION PLAT

County 051 Permit 70020  
 Now 571

LATITUDE 39° 52' 30"

LONGITUDE 80° 32' 30"



1.705  
0.47W

7'5 OGIS topo location

7.5' loc 1.715 15' loc \_\_\_\_\_  
                  0.47W (calc.) \_\_\_\_\_

Company \_\_\_\_\_

Farm \_\_\_\_\_

Quad CAMERON 7 1/2'

County MARSHALL

District CAMERON

WELL LOCATION MAP

File No. 051-0571

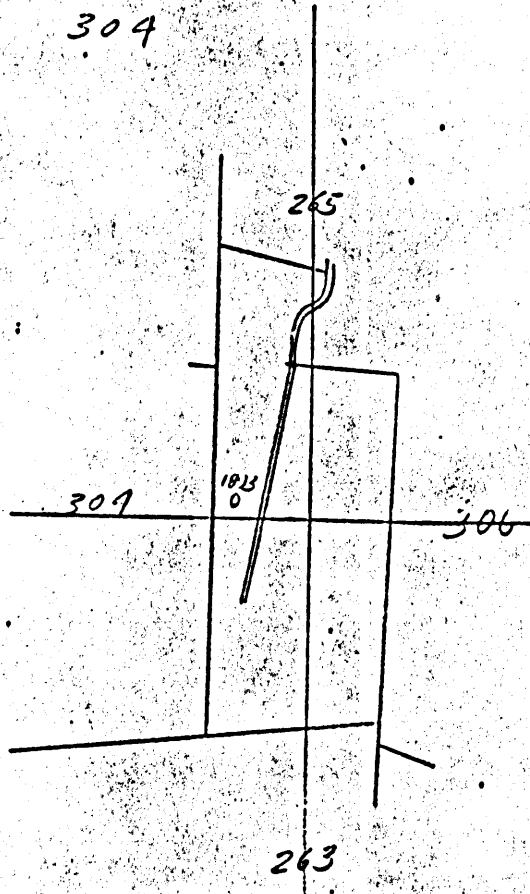
(024)

COMPANY COLUMBIA GAS TRANSMISSION CORPORATION MAP NO. \_\_\_\_\_

FARM Byran Braddock WELL NO. 601822

DISTRICT Cameron COUNTY Marshall STATE WV

SCALE: 1" = 1320' LONG. 80°33'07" LAT. 39°51'01"



MSH-571

**THE MANUFACTURERS' LIGHT & HEAT CO.**  
Company

Division \_\_\_\_\_  
 Record of Well No. 1893 on Jacob Boners Farm \_\_\_\_\_ Acres \_\_\_\_\_  
 Field \_\_\_\_\_ District \_\_\_\_\_ Township \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_  
 Rig Commenced \_\_\_\_\_ 19 \_\_\_\_\_ Completed \_\_\_\_\_ 19 \_\_\_\_\_  
 Drilling Commenced \_\_\_\_\_ 19 \_\_\_\_\_ Completed \_\_\_\_\_ 19 \_\_\_\_\_  
 Contractor \_\_\_\_\_ Address \_\_\_\_\_  
 Driller Name \_\_\_\_\_

**CASING AND TUBING RECORD**

Conductor	11"	10"	8 1/2"	7"	6 1/2"	5 1/2"	4"	3"
Used in Rig								
Left in Well								

**PACKER RECORD**

**SHOOTING RECORD**

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

**VOLUME AND PRESSURE**

Date	Reading in inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hr. R. P.	Max. R. P.	16	
						1	5	10	20	30				

**TOTAL INITIAL OPEN FLOW**

**CUBIC FEET PER 24 HOURS**

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS			
Clay yellow soft	1	12	12	Shells	215	2000	1
Shale white hard	12	70	58	Shale	2200	2275	1
Shale dark soft	70	120	50	Lime hard	2275	2500	2
Lime white hard	120	215	95	Shale	2390	2050	6
Shale dark soft	215	305	90	Lime hard	2350	2590	4
Lime white hard	305	375	70	Shells Shale	2415	2500	8
Sand white hard	375	395	20	Bank Rock	2500	2575	1
Shale dark soft	400	400	30	Red Rock	2575	2575	1
Lime white hard	430	550	120	Shale	2525	2575	7
Lime hard	555	645	90	soft shells	2575	2604	2
Shale "	653	680	27	Shale	2644	2654	3
Shale dark soft	680	715	35				
Sand white hard	715	765	50				
" "	765	860	95				
Lime " hard	750	900	150				
" " soft	910	920	10				
Red Rock Red soft	920	940	20				
Lime hard	940	1000	60				
Red Rock Red soft	1000	1150	150				
Shale black soft	1095	1125	30				
Shale "	1185	1190	5				
Lime white hard	1190	1240	50				
Lime sand	1240	1250	10				
Shale soft	1240	1325	85				
Sand soft	1325	1375	50				
Sand black soft	1375	1440	65				
Sand dark hard	1440	1700	260				
Shale	2005	2100	95				

MSH-574 ?

Examined above information and measurements and found to be correct by \_\_\_\_\_ Contractor \_\_\_\_\_ Field Superintendent

NOTE: The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of each.

The Manufacturers Light and Heat Company

348 Fourth Ave. Pittsburgh, Penna.

Division *W. I. C. D. I.*

Record of Well No. 1893 on Jacob Lowers Farm 107 Acres

*Cameron* Field *Cameron* District *Marshall* County *W. Va.* State

Rig Commenced *Dec 31 1915* Completed *Jan 6 1916*

Drilling Commenced *January 12 1916* Completed *Feb. 11 1916*

Cost per foot \$1.10 Contractor *Snyder Bros.* Address *Cameron, W. Va.*

Drillers' Names *Ross Earnest, Chas. McCullough*

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder

CONDUCTOR AND CASING USED IN DRILLING

Conductor	13 inch	10 inch	8 1/2 inch	8 inch	6 1/2 inch	6 inch	5 1/2-16 inch	5 inch	4 inch
15		192	1065	1923					

CONDUCTOR AND CASING LEFT IN WELL

Conductor	13 inch	10 inch	8 1/2 inch	8 inch	6 1/2 inch	6 inch	5 1/2-16 inch	5 inch	4 inch	3 inch
15				1923						

OIL WELL

GAS WELL

When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute's Pressure	Rock Pressure
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FORMATION		Top	Bottom	Thickness	REMARKS
Bluff sand	<i>White Hard</i>	375	395	20	<i>Feb. 20-1916 Well Packed in Big iron gun sand at 1991 3/4 ft with 1-6 7/8 x 4" O.N.S. Disc wall Packer.</i>
Waynesburgh coal	<i>Black</i>	395	400	5	
Napletown	"	550	555	5	
Pittsburgh	"	645	653	8	
Little Dunkard sand	<i>White Hard</i>	1050	1085	35	
Big	" <i>White Hard</i>	1125	1185	60	<i>Feb. 12-1916 Well shot with 20 qt. in 50ft sand. Top of shell 2601 Bottom 2606 and also in Gordon stray sand with 20-gal made before shooting 9/10 water in 6 7/8 casing after shooting 9/10 water in 6 7/8 casing made in 4" Tubing with spring cage. 25-50-70-90-105 For 16 minutes 150#</i>
Gas sand	<i>hard</i>	1420	1500	60	
Salt	<i>hard</i>	1500	1600	100	
Maxon	<i>hard</i>	1700	1725	25	
Big Lime		1755	1795	40	
Big Injun sand		1795	2035	240	
Thirty foot sand	<i>hard</i>	2390	<del>2451</del>	25	
Fifty	"	2600	2616	16	
Gas in Fifty foot sand		2601	2604	3	
Gordon Stray sand		2654	2676	22	
Gas in	"	2655	2658		
"	"	2673			
Gordon sand		2679	2689	10	
Total depth of well		2738			

*25 lbs NO 2" - 4, 12 000 Gordon*

APPROVED: MSH-571

*[Signature]*

JACOB BOWERS NO. 1893 WELL.

Cameron District, Marshall County, W. Va.  
 By Manufacturers Light & Heat Co.  
 Completed Feb. 11, 1916.  
 Record from Mr. Schillheim Sept. 30, 1939.

	Top.	Bottom.
Pittsburgh Coal	645	- 653
Little Dunkard Sand	1050	- 1085
Big Dunkard Sand	1125	- 1185
Gas Sand	1440	- 1500
Salt Sand	1500	- 1600
Horton Sand	1705	- 1725
Big Lime	1755	- 1795
Big Injun Sand	1795	- 2035
30-Foot? Sand	2390	- 2451
50-Foot Sand (gas, 2601-2604')	2600	- 2616
Gordon Stray Sand (gas, 2655-2658')	2654	- 2676
Gordon Sand	2679	- 2689
Total depth		2738