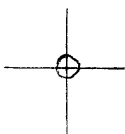


LATITUDE 39° 52' 30"

00° 03' 00" LONGITUDE



7.5'  
2.02S  
1.35W

7'5 OGIS topo location

7.5' loc 2.03S 15' loc \_\_\_\_\_  
                  1.35W (calc.) \_\_\_\_\_

Company \_\_\_\_\_

Farm \_\_\_\_\_

Quad CAMERON 7 1/2'

County MARSHALL

District CAMERON

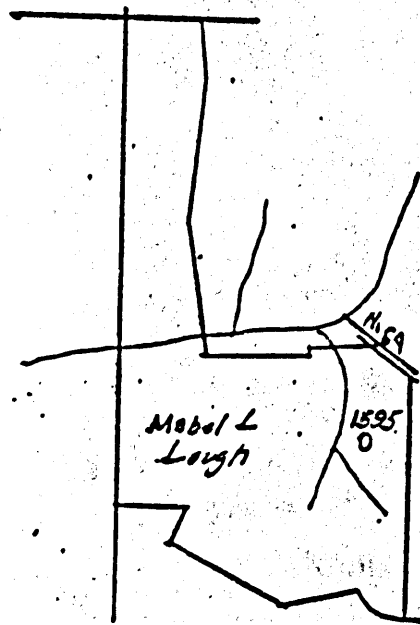
WELL LOCATION MAP

File No. 051-1573

Well Reassigned:  
47-051-02527

(024)

COMPANY COLUMBIA GAS TRANSMISSION CORPORATION MAP NO. \_\_\_\_\_  
FARM Mabel L. Lough WELL NO. 601525  
DISTRICT Cameron COUNTY Marshall STATE WV  
SCALE 1" = 1320' LONG. 80° 31' 36" LAT. 39° 50' 45"



MSH-573

# THE MANUFACTURING LIGHT & HEAT CO.

Division \_\_\_\_\_ Company \_\_\_\_\_  
 Record of Well No. 1593 on T. R. Lough Farm Acres \_\_\_\_\_  
 Field Cameron District Mitchell County St. Joe State \_\_\_\_\_  
 Rig Commenced 19 Completed 19  
 Drilling Commenced May 1 - 1913 Completed 19  
 Contractor Frank T. Rivers Address Washington, D.C.  
 Driller Name Wm. R. Edwards, S. B. Bell, J. Poling, & W. J. Morgan

## CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/2"	7"	6 1/2"	5 1/2"	4"	3"
Used in Drig.			<u>205</u>	<u>1220</u>		<u>1845</u>			
Left in Well									

## PACKER RECORD

## SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Ca. Pl.	Volume After Ca. Pl.
						Top	Bottom		

## VOLUME AND PRESSURE

Date	Reading in inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					H. P.	Max. H. P.	How	
						1	5	10	30	60				

## TOTAL INITIAL OPEN FLOW

## CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Shale	White soft	0	70	Water 40' 3 barrels
Lime	White hard	70	200	Gas at 1375 ft
Sand	Gray soft	200	250	Gas at 2715 ft
Lime	White hard	250	200	Gas at 2155 ft
Sand	White soft	450	457	
Shale	Black soft	457	37	
Shale	White soft	494	48	
Lime	White hard	542	140	
Shale	Black soft	682	5	Shale Black soft 1540 1545 11
Lime	White hard	687	11	Lime White hard 1545 1555 10
Shale	Black soft	713	5	Shale Black soft 1555 1560 5
Lime	White hard	718	42	Lime White hard 1560 1562 12
Shale	Black soft	760	23	Shale Black soft 1562 1574 24
Lime	White hard	783	40	Lime White hard 1574 1579 12
Shale	Black soft	823	42	Shale Black soft 1579 1582 12
Lime	White hard	865	150	Lime White hard 1582 1597 51
Shale	Black soft	1015	41	Shale Black soft 1597 1601 20
Sand	Gray hard	1144	15	Sand Gray hard 1601 1616 16
Shale	Black soft	1159	10	Shale Black soft 1616 1626 10
Sand	White hard	1169	5	Sand White hard 1626 1631 11
Shale	Black soft	1230	30	Shale Black soft 1631 1641 14
Sand	White hard	1245	75	Sand White hard 1641 1656 36
Shale	White soft	1310	80	Shale White soft 1656 1671 25
Sand	Dark soft	1370	60	Sand Dark soft 1671 1691 20
Shale	White soft	1430	80	Shale White soft 1691 1711 20
Sand	Dark hard	1530	40	Sand Dark hard 1711 1731 20
Shale	Dark soft	1570	25	Shale Dark soft 1731 1756 25
Sand	White hard	1645	121	Sand White hard 1756 1877 121

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" must 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 pay.

# The Manufacturers Light and Heat Co.

Farmers Bank Building, Pittsburgh, Penna.

Division

Record of Well No.

Field

Rig commenced

Drilling commenced

Cost per foot

Drillers' names

*Cameron*  
*1-1575*  
*W. B. Leight*  
*April 4, 1913*  
*May 1, 1913*  
*1.15*  
*S. T. Best, S. Morgan, W. Richards, J. L. Allen*

Farm

County

State

Completed

Completed

Address

BOILER			ENGINE			RIG		
No.	Name of Maker	H. P.	No.	Name of Maker	H. P.	New	Old	Name of Builder
						Yes	8%	W. Gilmer

## CONDUCTOR AND CASING USED IN DRILLING

Conductor	13 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 1/8 inch	5 inch	4 inch
16		205	1220	1865					

## CONDUCTOR AND CASING LEFT IN WELL

Conductor	13 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 1/8 inch	5 inch	4 inch	3 inch
16			1220	1865				2928 1/2		

## 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 Press
						6 7/8 x 4	2529	4"	30	246

## FORMATION

## Top Bottom Thickness

## REMARKS

Waverburg Coal	487	492	5	Three barrels of water out 40 feet. Gas at 2715 feet. Gas at 2788 feet.	
Waverburg Coal	680	685	5		
Pittsburg Coal	773	778	5		
Waverburg Sand	843	883	40		
Little Dunkard	1144	1159	15	Well tubed June 17-1913 with 4" tubing. Packed in 1-6 7/8 x 4" anchor packer set at 2529 ft in 30 ft sand anchor. 386.07 ft 17 ft above packer 2541.07 123 "	
Sand	1172	1230	58		
Big Dunkard	1265	1310	45		
Sand	1390	1450	60		
Gas Sand	1530	1570	40	Total 2928.02" 142 "	
Salt Sand	1695	1826	131		
Little Limestone	1845	1855	10		
Little Limestone	1855	1860	5		
Big Limestone	1860	1932	72	well shot. June 14-1913 with 60 lbs in Gordon shot Increased Production from 410 water in 6 7/8 hole to 10110 water in 4 1/8 hole.	
Big Limestone	1932	2178	246		
Forty Foot	2516	2567	53		
Forty Foot	2777	2812	35		
Forty Foot	2812	2912	100		
Forty Foot	2912				

Forty Foot.

2714 2750 36

APPROVED

MSH-573