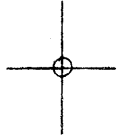


LATITUDE 39° 47' 30"



LONGITUDE 80° 03' 00"

7.5 OGIS topo location

7.5' loc 0295 ✓ 15' loc _____
2.04 w (calc.) _____

Company _____

Farm _____

Quad CAMERON 7 1/2'

County MARSHALL

District LIBERTY

WELL LOCATION MAP

File No. 051 - 1578

(024)

COMPANY COLUMBIA GAS TRANSMISSION CORPORATION

MAP NO. Cameron

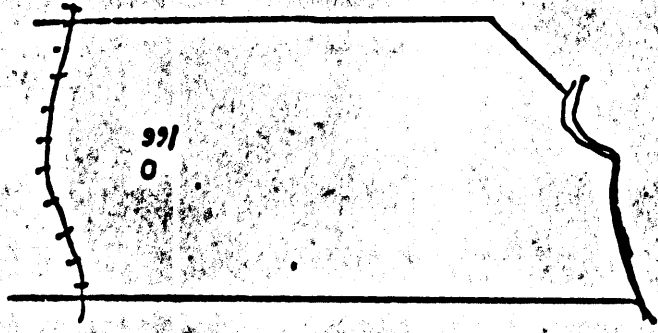
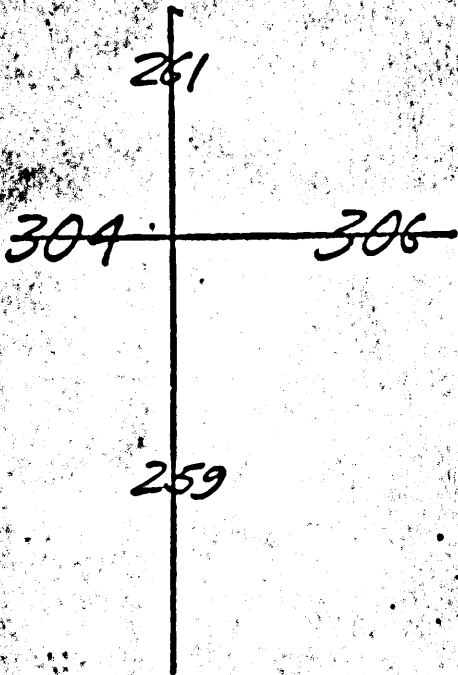
FARM Emerald Coal Co

WELL NO. 60991

DISTRICT Liberty COUNTY Marshall

STATE WV

SCALE 1" = 1320' LONG. _____ LAT. _____



MSH-578

The Manufacturers Light & Heat Co.

Farm Bank Building, Pittsburg, Penna.

Division

Record of Well No. *1991* on *1 1/2* Acres *Thomas, Brian*

Farm

Acres

Lawson Field *Liberty* District *Marshall* County *W. Va.* State

Rig commenced *April 6th* 1907. Completed *April 16* 1907

Drilling commenced *April 25th* 1907. Completed *June 29th* 1907

Cost per foot *1.29*

Contractor *Ed Rowley* Address *Pittsburg Pa*

Drillers' names *George Day, Ed Miller, W. Ernest, Harry Herman*

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
						<i>2 1/2</i>		<i>82</i>	<i>W. B. Ferrel</i>

CONDUCTOR AND CASING USED IN DRILLING										
Conductor	13 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	6 inch	6 3/16 inch	6 inch	4 inch	
<i>16</i>		<i>300</i>	<i>1774</i>	<i>1966</i>						

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	6 inch	6 3/16 inch	6 inch	4 inch	3 inch
<i>16</i>				<i>1766</i>					<i>2139</i>	

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
<i>June 24th 1907</i>	<i>40 lbs</i>					<i>6 1/2 x 4</i>	<i>2878</i>	<i>4</i>		

FORMATION	Top		Bottom		Thickness	REMARKS
	Feet	Feet	Feet	Feet		
<i>Pittsburg local</i>		<i>775</i>				
<i>Gas Sand</i>		<i>1400</i>	<i>1458</i>			
<i>Salt</i>	<i>1st</i>	<i>1570</i>	<i>1610</i>			
<i>"</i>	<i>2nd</i>	<i>1740</i>	<i>1790</i>			
<i>Wagon</i>	<i>"</i>	<i>1870</i>	<i>1860</i>			
<i>Small leave</i>	<i>"</i>	<i>1870</i>	<i>1880</i>			
<i>Big leave</i>	<i>"</i>	<i>1880</i>	<i>1963</i>			
<i>Big log run</i>	<i>"</i>	<i>1960</i>	<i>2185</i>			
<i>50 ft</i>	<i>"</i>	<i>2540</i>	<i>2570</i>			
<i>Stray</i>	<i>"</i>	<i>2752</i>	<i>2780</i>			
<i>Gordon</i>	<i>"</i>	<i>2815</i>	<i>2840</i>			
<i>Fourth</i>	<i>"</i>	<i>2883</i>	<i>2893</i>			
<i>Fifth</i>	<i>"</i>	<i>2980</i>	<i>2986</i>			
<i>Steel depth</i>	<i>"</i>	<i>2996</i>				

Little gas (20th in 6 1/2" casing feet)

well filled up with hard wood poles & stone to 2913 feet

well shot in Fourth sand with 40 quarts June 24th 1907

well tubed with 4" June 26th 1907

61 feet of anchor (3 jobs)

1-6 1/2 x 4 casing joints used