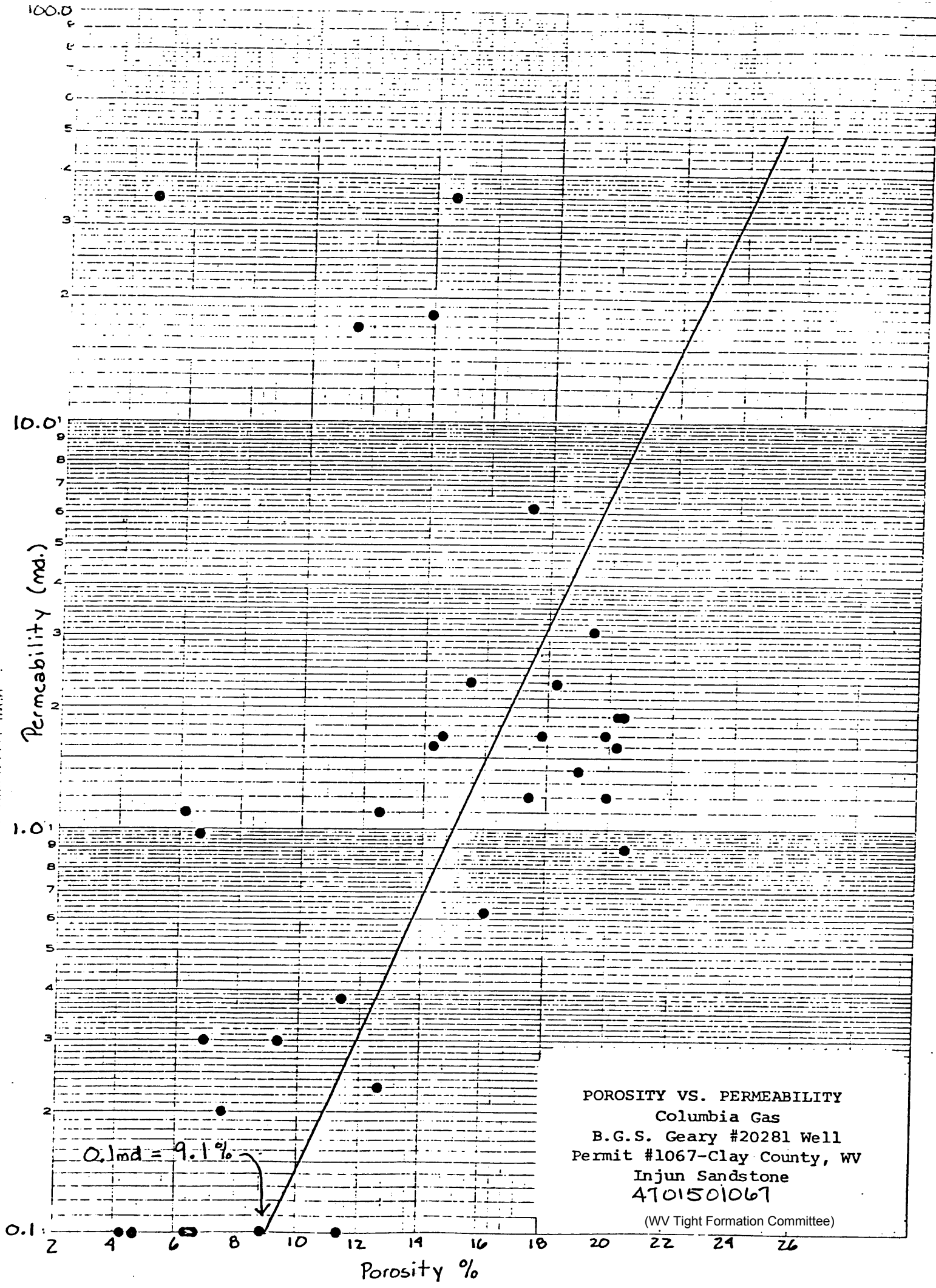


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PAPER



POROSITY VS. PERMEABILITY
Columbia Gas
B.G.S. Geary #20281 Well
Permit #1067-Clay County, WV
Injun Sandstone
4701501067
(WV Tight Formation Committee)

40-54

Clay-1067



OILFIELD RESEARCH, INC.

WHOLE CORE ANALYSIS REPORT

Company Columbia Gas Transmission Corporation Elevation 739 GL File No. 7507028
 Lease B. G. S. Geary Well 20,281 Formation Injun Date Cored 7/17-18/75
 Field Grannys Cr. South Drlg. Fluid FW Gel Date Report 7/28/75
 County Clay State W. Virginia Type Of Core Diamond Permit No. _____
 Location _____ Remarks Sampled by client

LITHOLOGICAL ABBREVIATIONS

SAND-SO DOLOMITE-DOL ANHYDRITE-ANHY SANDY-SOY FINE-FN CRYSTALLINE-XLN BROWN-BRN FRACTURED-FRAC SLIGHTLY-SL/
 SHALE-SH CHEST-CH CONGLOMERATE-CONG SHALEY-SHY MEDIUM-MED GRAIN-GRN GRAY-GY LAMINATION-LAM VERY-W/
 LIME-LM GYPSUM-GYP FOSSILIFEROUS-FOSS LIMEY-LMY COARSE-CSE GRANULAR-GRNL VUGGY-VGY STYLOLITIC-STY WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	LITHOLOGY AND REMARKS
		HORIZONTAL			
		MAX	90°		

INJUN					Oil Saturation	Water Saturation
1	1585.0 - 86.4	18.	14.	6.0	6.7	90.6
2	1686.4 - 87.7	0.23	<0.10	12.7	3.8	48.7
3	1687.7 - 88.9	35.	31.	14.7	1.8	34.1
4	1688.9 - 90.2	17.	10.	11.5	2.3	38.6
5	1690.2 - 91.6	0.38	0.38	11.4	3.8	43.7
6	1691.6 - 92.8	1.1	1.0	6.2	4.0	59.0
7	1692.8 - 93.9	<0.10	<0.10	4.2	0.0	72.1
8	1693.9 - 95.4	0.20	0.20	7.6	5.0	53.2
9	1695.4 - 96.8	<0.10	<0.10	6.4	0.0	61.1
10	1696.8 - 98.0	<0.10	<0.10	6.5	2.0	63.2
11	1698.0 - 99.8	0.30	0.30	6.9	0.0	57.8
12	1699.8 - 01.2	0.30	0.30	9.4	4.2	50.7
13	1601.2 - 02.2	<0.10	<0.10	6.8	2.4	62.0
14	1602.2 - 03.5	<0.10	<0.10	4.8	3.8	89.6
15	1603.5 - 04.6	<0.10	<0.10	8.9	7.0	56.8
16	1604.6 - 06.0	<0.10	<0.10	11.4	5.2	61.3
17	1606.0 - 07.4	1.7	1.4	14.6	7.4	56.2
18	1607.4 - 08.6	2.3	1.7	15.4	7.5	55.6
19	1608.6 - 11.0	1.1	1.1	12.6	8.6	62.1
20	1611.0 - 12.4	35.	3.4	4.9	8.8	59.2
21	1612.4 - 13.8	0.97	0.83	6.7	6.9	66.2
22	1613.8 - 15.2	1.6	1.4	14.3	10.7	57.8
23	1615.2 - 16.8	6.1	6.1	17.5	11.4	52.7
24	1616.8 - 18.0	1.7	1.4	17.9	13.2	51.2
25	1618.0 - 19.4	2.3	1.8	18.3	11.4	51.8
26	1619.4 - 20.9	0.89	0.38	19.6	13.8	50.0
27	1620.9 - 22.2	1.4	1.2	19.1	18.1	49.3

WHOLE CORE ANALYSIS REPORT

Lease B.G.S. Geary

Well No. 20281

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	LITHOLOGY AND REMARKS	
		HORIZONTAL				VERTICAL
		MAX	90°			

					<u>Oil Saturation</u>	<u>Water Saturation</u>
28	1622.2 - 23.4	1.2	1.1	20.0	13.6	51.3
29	1623.4 - 24.9	1.6	1.6	20.3	12.9	51.2
30	1624.9 - 26.1	1.9	1.9	20.3	13.5	50.2
31	1626.1 - 27.3	1.9	1.7	20.4	18.3	46.7
32	1627.3 - 28.6	1.7	1.7	19.9	12.6	50.2
33	1628.6 - 30.1	3.1	2.7	19.5	15.1	50.8
34	1630.1 - 31.1	0.62	0.62	16.1	17.0	42.8
35	1631.1 - 32.0	1.2	1.2	17.5	14.4	46.9

AVERAGE

1585.0-1613.8	5.2	3.0	9.1	4.5	59.2 (28.8')
1613.8-1632.0	2.1	1.9	18.7	13.9	50.5 (18.2')

All averages are weighted averages.