SPECIAL CORE ANALYSIS REPORT

FOR

TRIPLE I ENERGY COMPANY
BRAY NO. 9-W WELL
BURRIS NO. 23 WELL
BURRIS NO. 29 WELL
JACKSON COUNTY, MISSOURI

7304 EAST 38th STREET, TULSA, OKLAHOMA 74145 • 918/664-9071

CORE LABORATORIES, INC.

July 17, 1984

Triple I Energy Corporation
6600 College Blvd.
Suite 310
Overland Park, Kansas 66211

Attention: Ms. Shirley Peterman

Subject: Water-Oil Relative Permeability
Bray No. 9-W Well
Burris No. 23 Well
Burris No. 29 Well
File No: 3404-301-84052

Gentlemen:

This report presents data for unsteady-state water-oil relative permeability tests performed on 8 horizontal core samples from the subject wells. Waterflood susceptibility calculations were reported on July 13, 1983 in CLI Report No. 3404-301-83017.

Thank you for this opportunity to be of service.

Sincerely,

CORE LABORATORIES, INC.

John C. Evanoff
Laboratory Manager
Special Core Analysis

JCE:KC:reh

WATER-OIL RELATIVE PERMEABILITY DATA

TRIPLE I ENERGY CORPORATION — BURRIS NO. 29 WELL
PERU FORMATION

Sample Number: 8A

Air Permeability, md: 123.

Porosity, Percent: 23.7

Oil Permeability at Initial Water Saturation, md: 74.

Initial Water Saturation, Percent Pore Space: 27.3

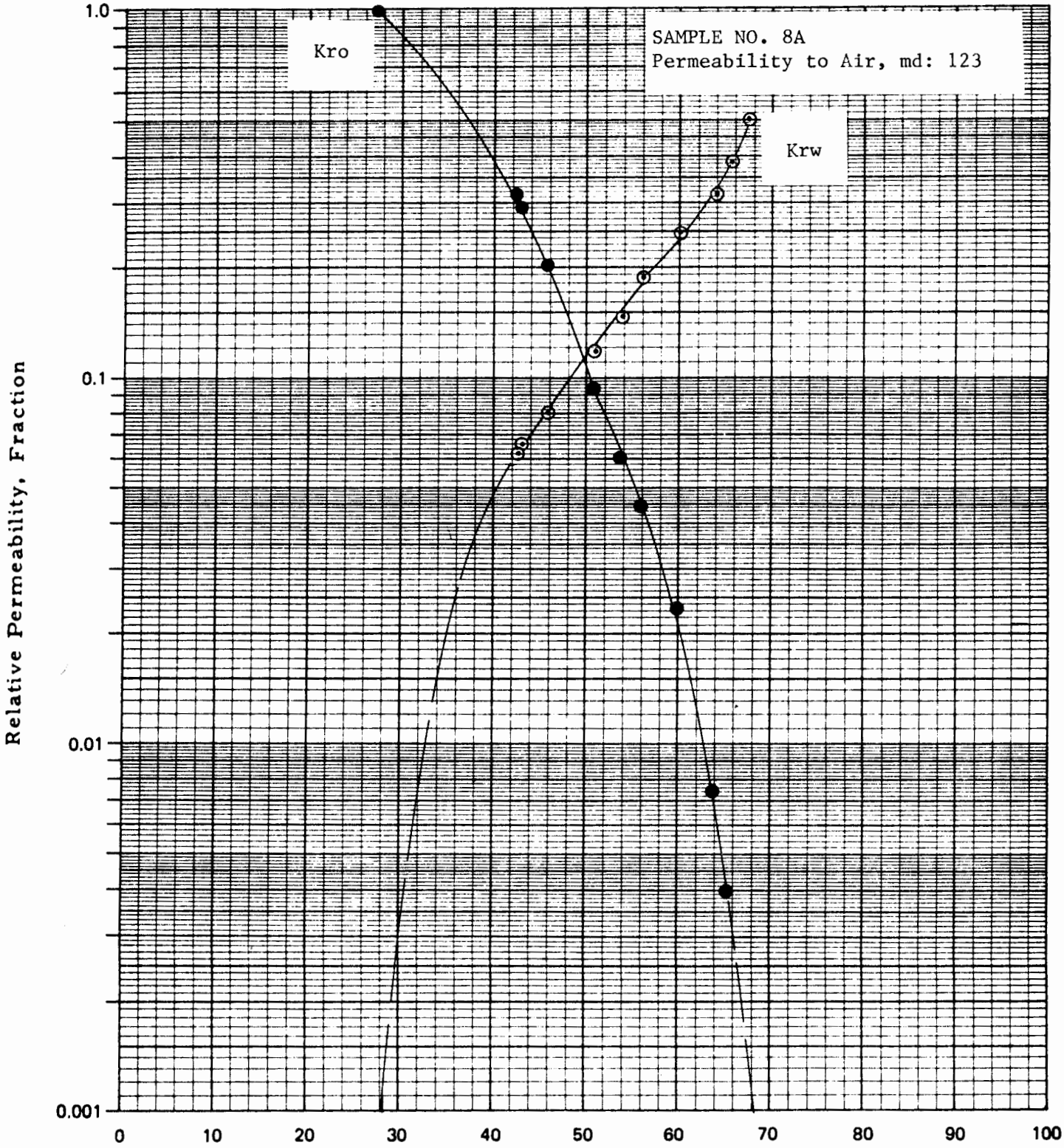
Water Saturation Percent Pore Space	Water-Oil Relative Permeability Ratio	Relative Permeability to Water*, Fraction	Relative Permeability to Oil*, Fraction
27.3	0.000	0.000	1.000
42.4	0.195	0.062	0.318
43.0	0.223	0.066	0.295
45.7	0.396	0.081	0.203
50.8	1.25	0.118	0.094
53.8	2.45	0.147	0.060
56.0	4.23	0.189	0.045
60.0	10.9	0.252	0.023
63.9	43.7	0.321	0.0074
65.5	100.	0.393	0.0039
67.3		0.514	

*Relative to oil permeability.

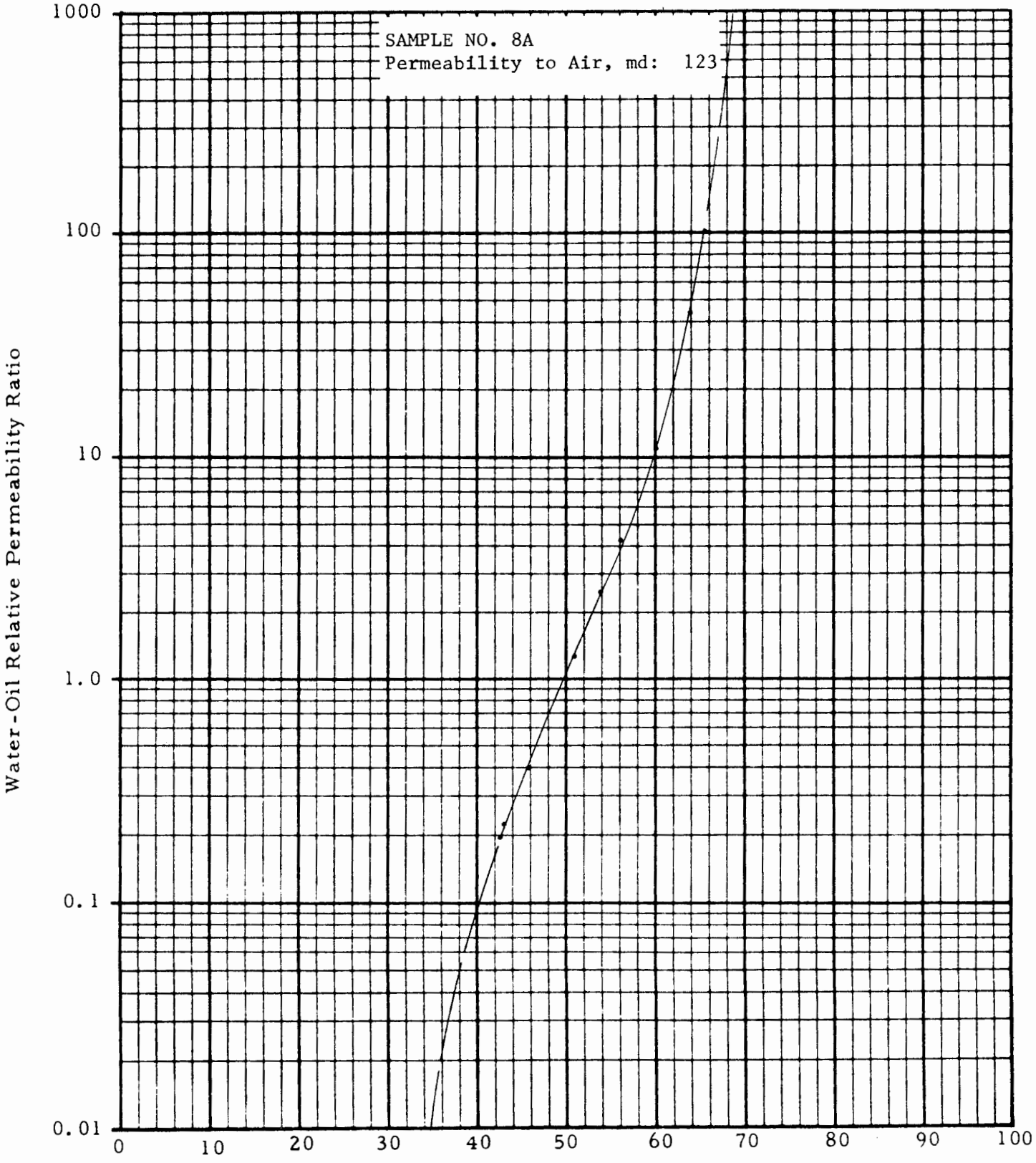
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Well Burris No. 29 County Jackson
Field State Missouri



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CL 425 A

WATER-OIL RELATIVE PERMEABILITY DATA

TRIPLE I ENERGY CORPORATION — BURRIS NO. 29 WELL
PERU FORMATION

Sample Number: 9A

Air Permeability, md: 80. — Porosity, Percent: 23.0

Oil Permeability at Initial Water Saturation, md: 41. — Initial Water Saturation, Percent Pore Space: 34.5

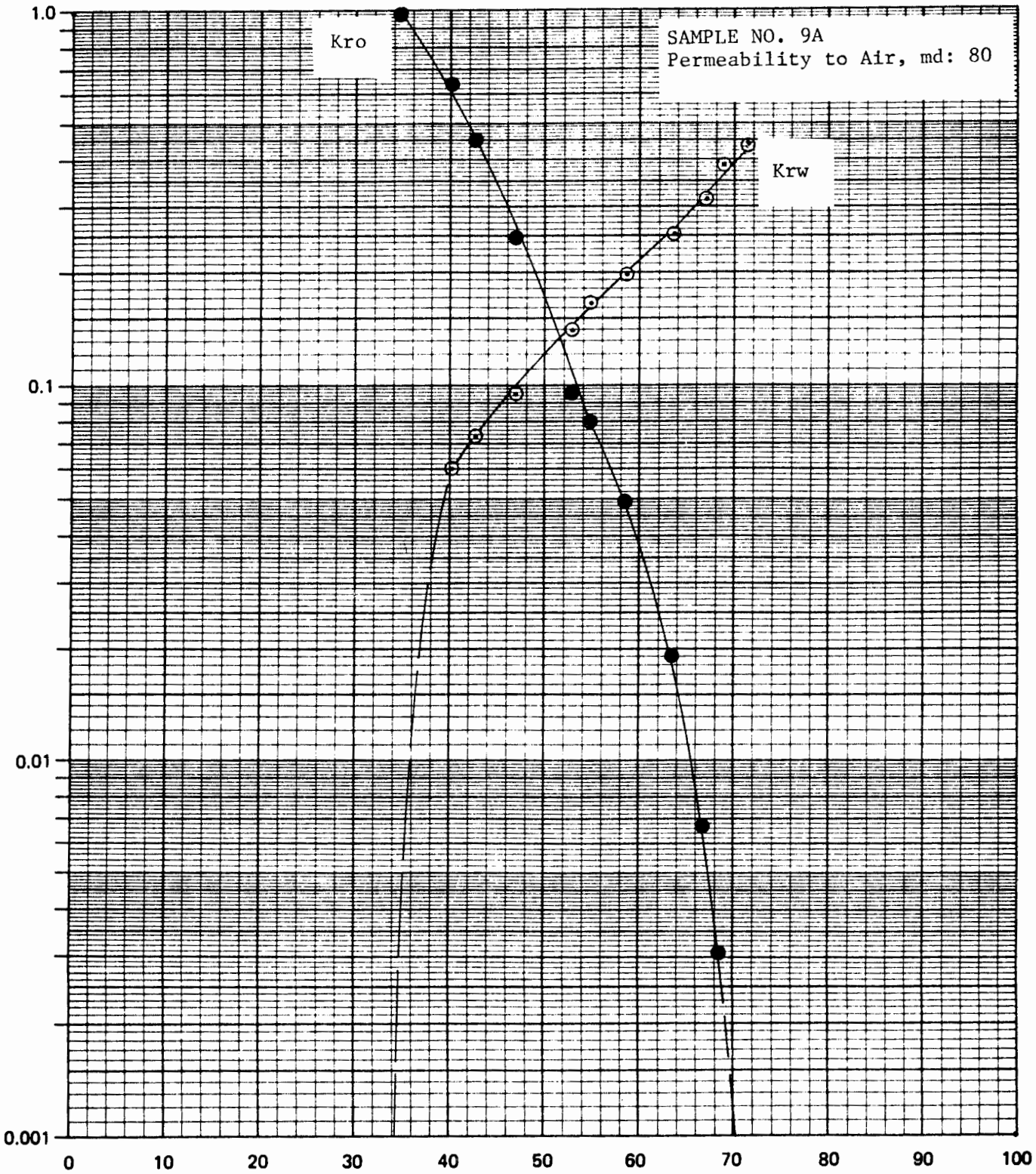
Water Saturation Percent Pore Space	Water-Oil Relative Permeability Ratio	Relative Permeability to Water*, Fraction	Relative Permeability to Oil*, Fraction
34.5	0.000	0.000	1.000
40.0	0.092	0.060	0.648
42.6	0.161	0.073	0.454
46.8	0.378	0.095	0.251
52.7	1.48	0.141	0.095
54.7	2.07	0.166	0.080
58.5	4.06	0.200	0.049
63.5	13.5	0.257	0.019
66.8	48.2	0.319	0.0066
68.7	131.	0.395	0.0030
71.2		0.443	

*Relative to oil permeability.

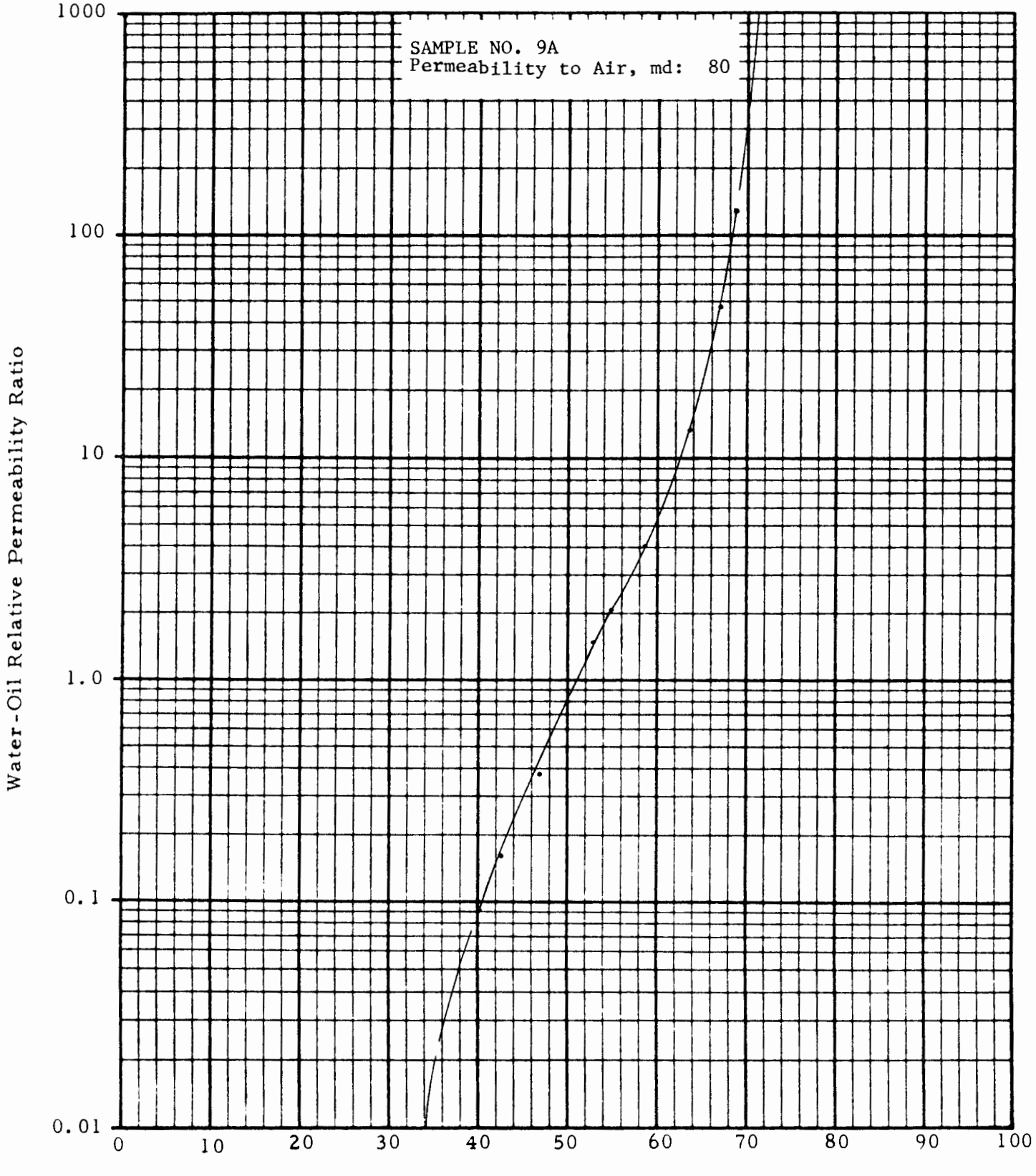
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WATER-OIL RELATIVE PERMEABILITY DATA

TRIPLE I ENERGY CORPORATION — BURRIS NO. 29 WELL
PERU FORMATION

Sample Number: 10A

Air Permeability, md: 53.

Porosity, Percent: 22.8

Oil Permeability at Initial Water Saturation, md: 31.

Initial Water Saturation, Percent Pore Space: 35.7

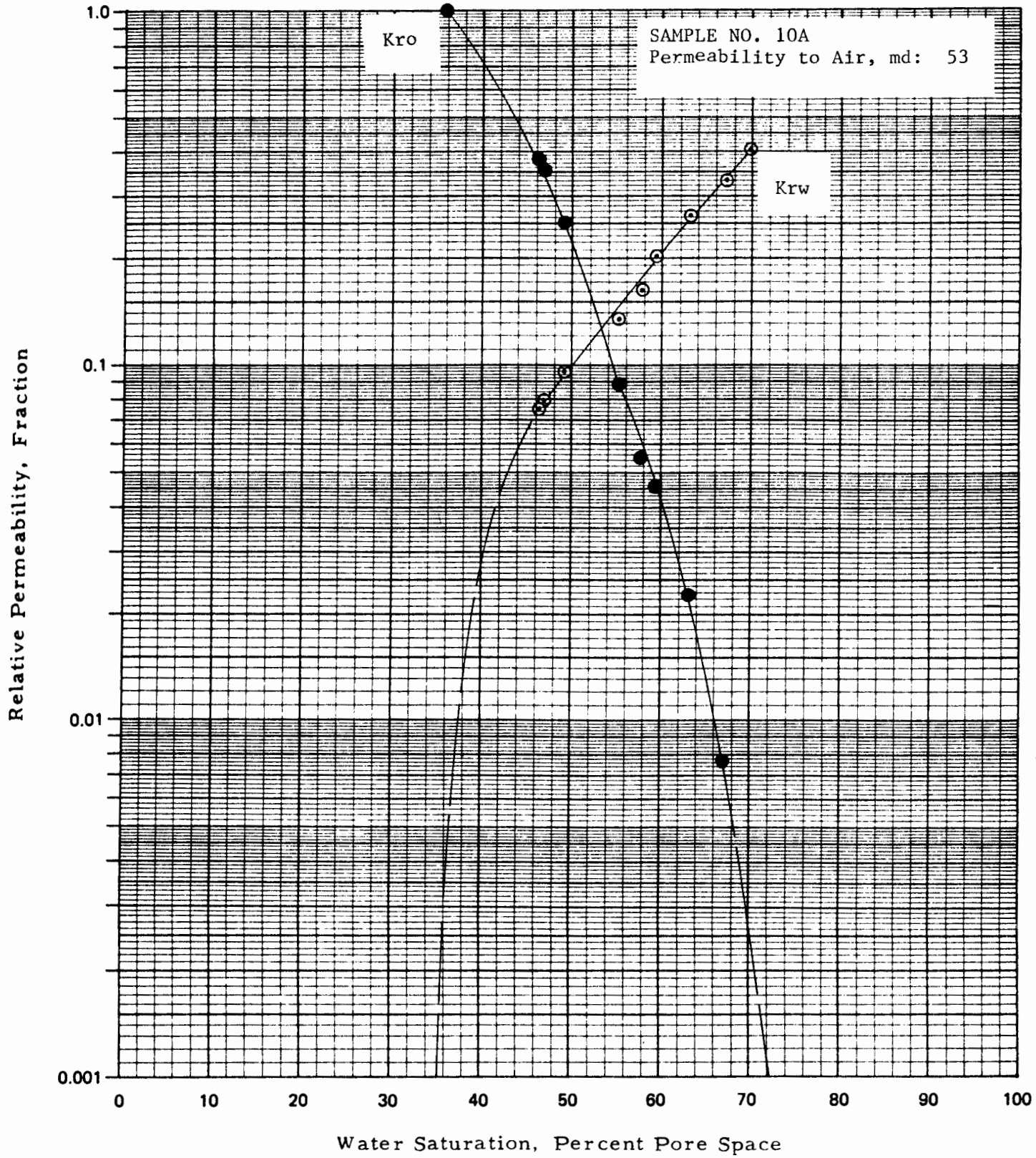
Water Saturation Percent Pore Space	Water-Oil Relative Permeability Ratio	Relative Permeability to Water*, Fraction	Relative Permeability to Oil*, Fraction
35.7	0.000	0.000	1.000
46.2	0.196	0.075	0.382
46.7	0.222	0.079	0.356
49.0	0.379	0.095	0.251
55.2	1.52	0.134	0.089
57.6	2.93	0.162	0.055
59.3	4.46	0.203	0.046
63.1	11.7	0.265	0.023
67.0	43.8	0.335	0.0076
69.7		0.408	

*Relative to oil permeability.

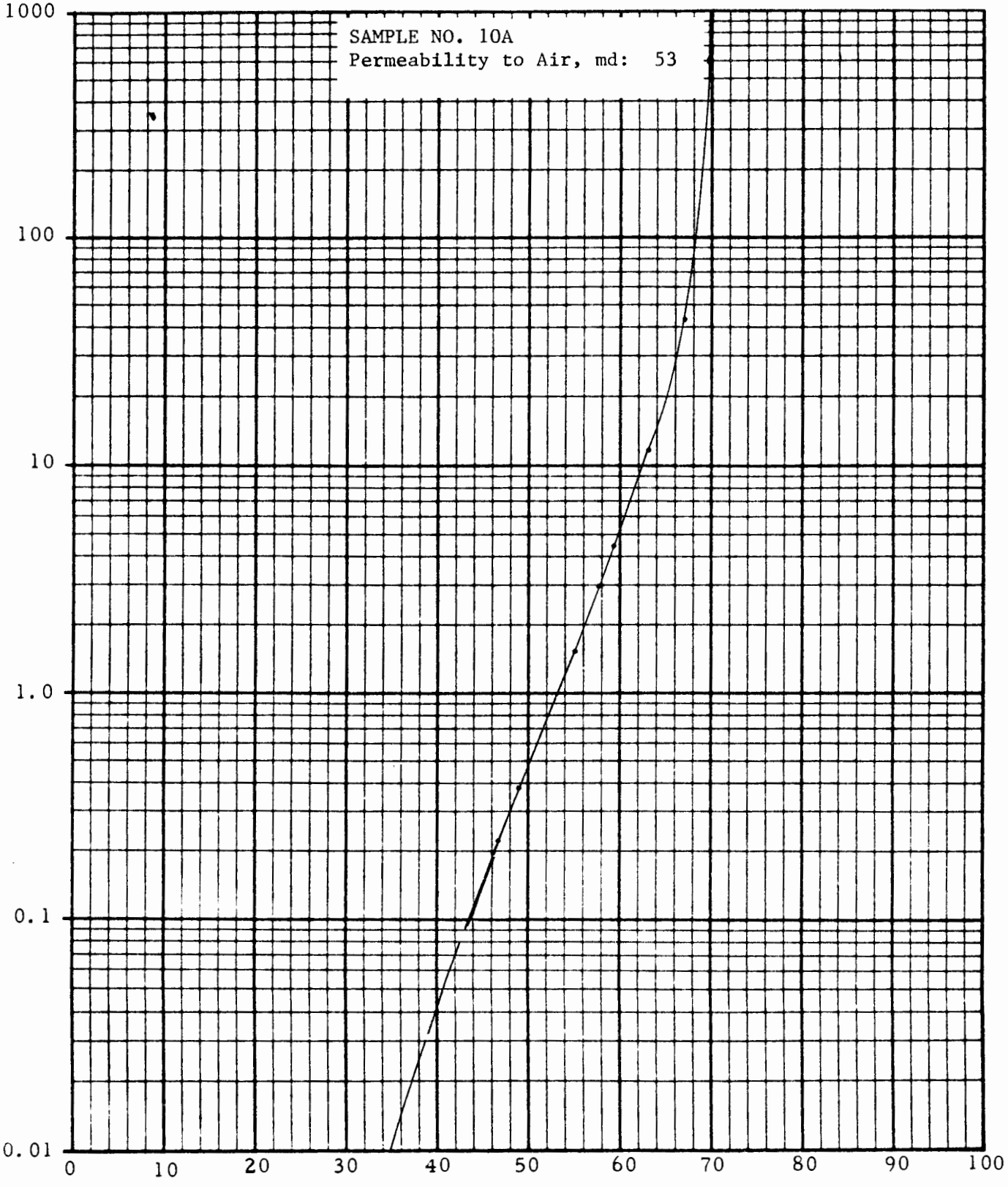
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WATER-OIL RELATIVE PERMEABILITY DATA

TRIPLE I ENERGY CORPORATION — BURRIS NO. 29 WELL
PERU FORMATION

Sample Number: 11A

Air Permeability, md: 35. — Porosity, Percent: 22.1

Oil Permeability at Initial Water Saturation, md: 19. — Initial Water Saturation, Percent Pore Space: 29.8

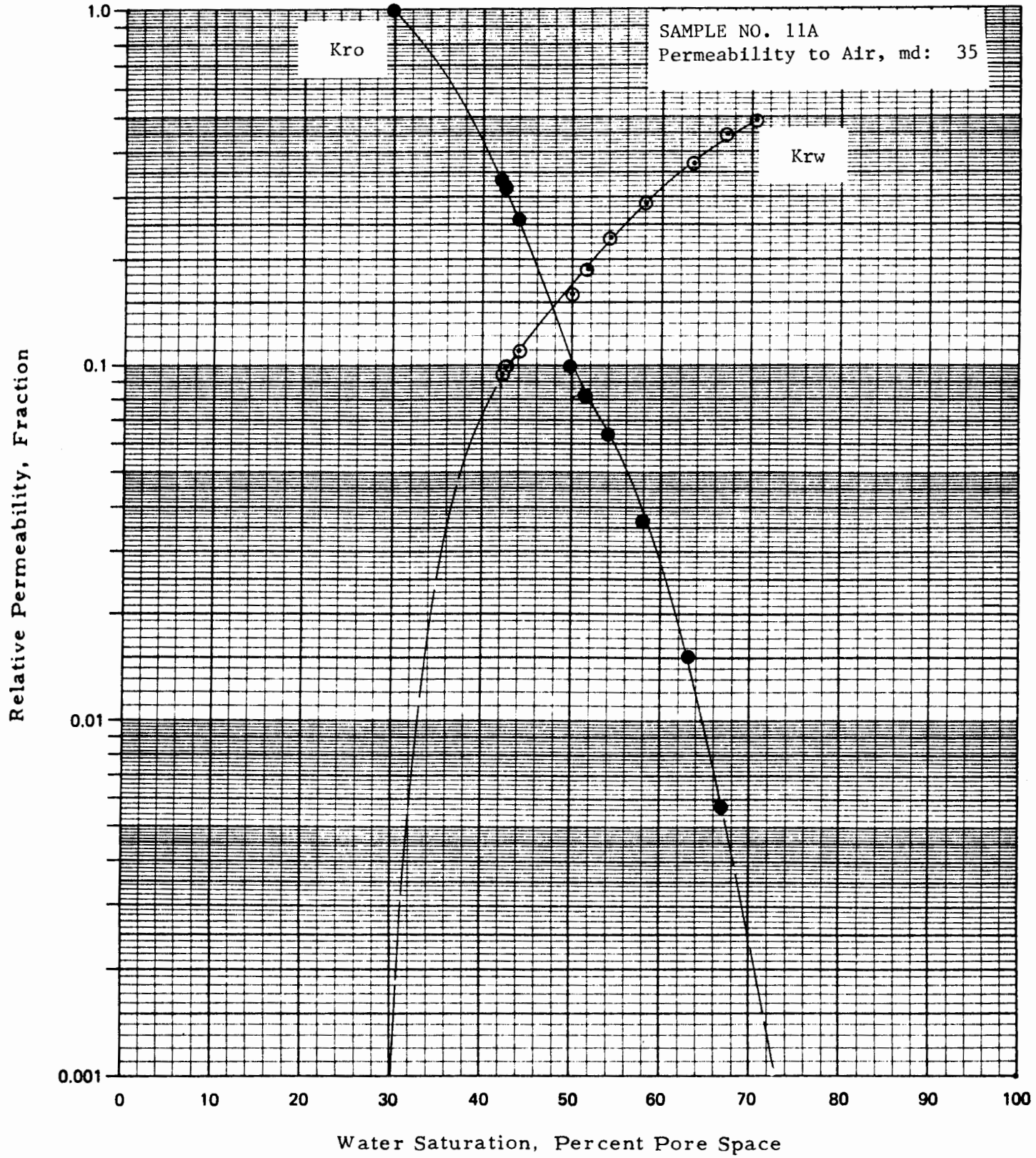
Water Saturation Percent Pore Space	Water-Oil Relative Permeability Ratio	Relative Permeability to Water*, Fraction	Relative Permeability to Oil*, Fraction
29.8	0.000	0.000	1.000
42.0	0.279	0.094	0.337
42.4	0.309	0.099	0.320
43.8	0.420	0.110	0.262
49.6	1.60	0.160	0.100
51.5	2.31	0.190	0.082
53.9	3.61	0.232	0.064
58.0	7.98	0.292	0.037
63.2	25.1	0.379	0.015
66.9	80.5	0.458	0.0057
70.0		0.500	

*Relative to oil permeability.

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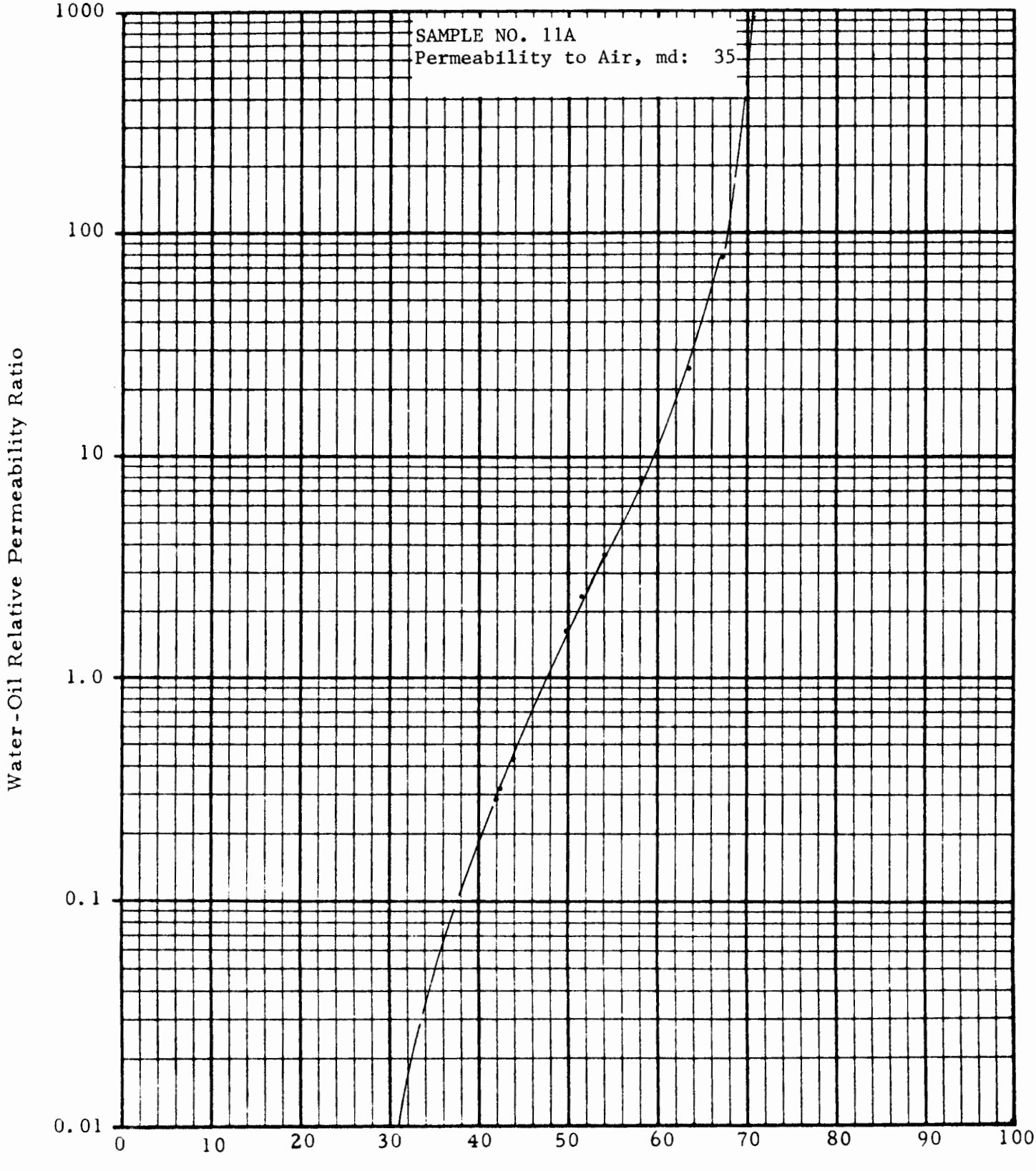
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WATER-OIL RELATIVE PERMEABILITY DATA

TRIPLE I ENERGY CORPORATION — BURRIS NO. 29 WELL
PERU FORMATION

Sample Number: 15A

Air Permeability, md: 108. — Porosity, Percent: 22.5

Oil Permeability at Initial Water Saturation, md: 58. — Initial Water Saturation, Percent Pore Space: 36.2

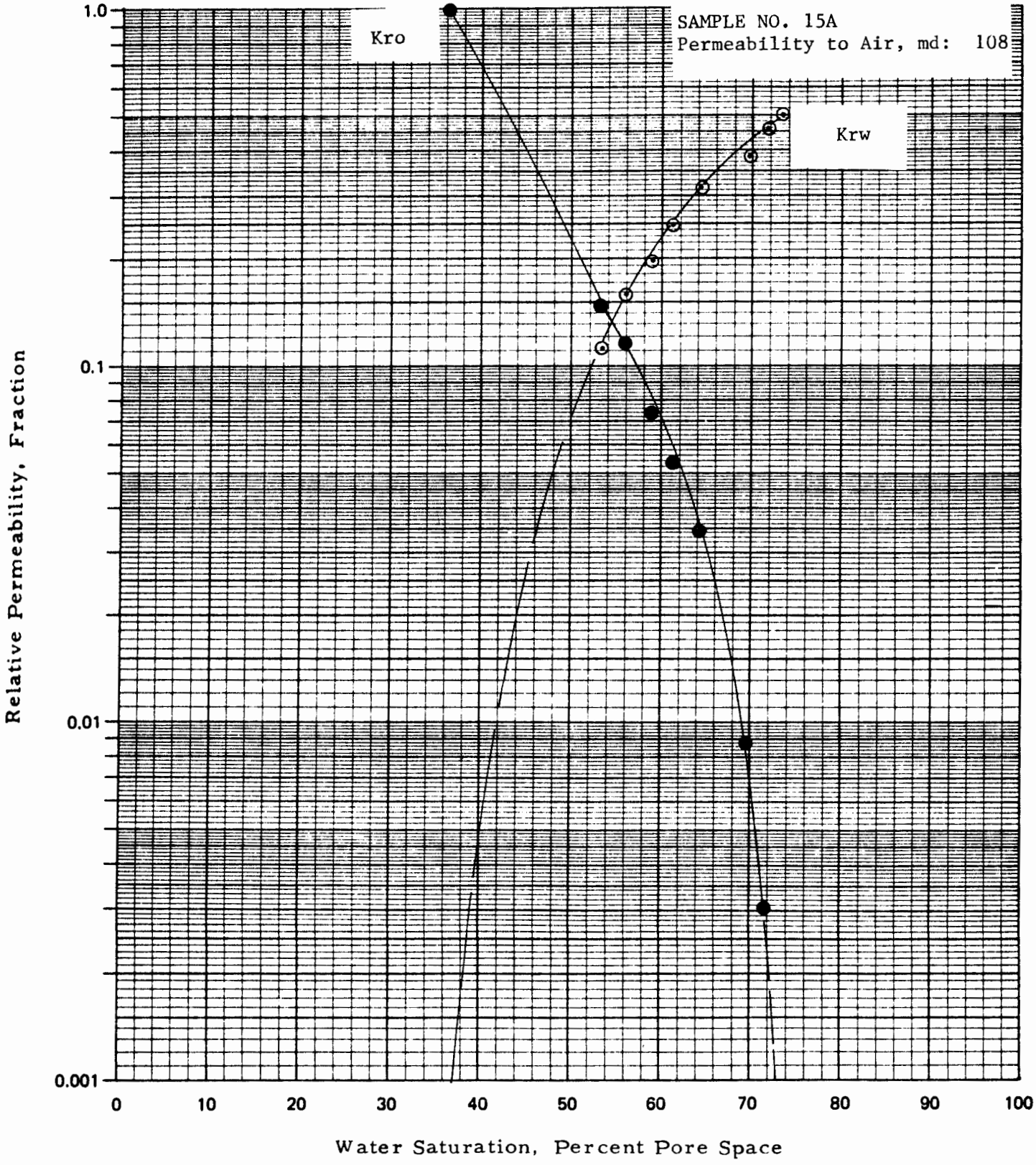
Water Saturation Percent Pore Space	Water-Oil Relative Permeability Ratio	Relative Permeability to Water*, Fraction	Relative Permeability to Oil*, Fraction
36.2	0.000	0.000	1.000
53.2	0.758	0.111	0.147
55.9	1.37	0.158	0.115
58.8	2.68	0.197	0.073
61.0	4.66	0.248	0.053
64.1	9.35	0.316	0.034
69.5	45.0	0.388	0.0086
71.6	154.	0.462	0.0030
73.2		0.509	

*Relative to oil permeability.

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