Data of Pumping Test (J-No. 1), 23 Feb. 1982

tive		Time after Pumping Started	Time after Pumping Stopped	Water Level	Dray- down	t/t'	log t/t'	Radius of Well	t²/t	Pumping Rate	Remarks
he sin s	ŧc.	t (sec)	t (sec)	(m)	s (m)	i		t (n)		Q(m'/sec)	
13 55	00	0		15.44	6			0.108			Pemping Started
	15	15		16.21	0.77	ļ 		0.198	8×10		
}	30	30		16.98	1.54			0.108	4×10		
-	45	45		17.69	2.25	ļ		0.108	2.667×10		
1	00	60		18.26	2.82	i i		0.108	2×10-1	į	
	30	90	:	19.33	3.89	.		0.108	1.333x10 ⁻		
	00	120		20.255	4.815	ļ		0.108	lx10"	•	
i -	30	150	·	21.062	5.622			0.108	8×10 ⁻⁵		
	00	180	·	21.728	6,288]	0.108	6.67x10 ⁻⁵	:	
	30	210		22.35	6.91	1.		0.108	5.71×10 ⁻¹		
i -	00	240		22.925	7.485			0.108	6x10 ⁻⁵		
1	30	270	į	23.387	7,347			0.108	4.44×10 ⁻⁵		
1 -	00	300		23.84	8.4			0.108	4x10 ⁻⁵		
	00	360		24.647	9.207			0.108	3.33x10 ⁻⁵		
! .	00	420		25.305	9.865			0.108	2.85×10 ⁻³		
1	00	480		25.88	10.44	1		0.108	2.5×10 ⁻⁵	0.002806	Q = 121.1 t/min
1	00	210		26.385	10.945			0.108	2.2x10 ⁻⁵	0.002000	= 0.00202 m ³ /sec
1	00	600		26.833	11.393	ļ .		0.108	2x10 ⁻⁵		
1	00	900		28.482	13.042			0.108	1.33x10 ⁻⁵		
I -	00	1200		29.53	14.090			0.108	1x10 ⁻⁵	0.0025081	
1	60	1300		30.068	14,628	l ·		0.108	8x10 ^{-#}	0.0023081	
	60	1800		30.497	15.057				6.6x10 ⁻⁶	0.0019903	4
	∞ ∞	2400		30.70	1	ļ		0.108	5x10-6	0.0019955	
İ	50	2990	0		13.260	١.		0.108	4x10 ⁻⁶	0.001345	Sandar Charack
Į.	2Ó	3020	0 30	30.90	15.45	0	2 2224	0.108	3.9x10 ⁻¹		Pumping Stopped
ł	20	3080	90	28.615 26.066	13.175	100.667	2.0019	0.108	3.8×10-6		
i .	50	3110	120	25.017	3.577	34.222	1.53431	0.108	3.8x10 ⁻¹		
1	20	3140	150	24.055	8.615	20.933	1.41353	0.108	3.8x10 ⁻⁶	ļ	
1	50	3170	180			i	ļ	0.108	3.7x10 ⁻⁶		
	20	3200	210	23.187	1.747	17.611	1.24578		3.7x10 ⁻⁶	}	
1	50	3230		22.412	6.972	15.238	1.18293	0.108	3.7x10		
1	20	3250 3250	240	21.746	6.306	15.458	1.18915	0.108	3.6x10 ⁻⁶		
1	· •	i	270	21.21	5.77	12.074	1.08185	0.108		1	
1	50	3290	300	20.593	5.159	10.967	1.04009	0.108	3.6x10 ⁻⁶		
1	- 1	3350	360	19.577	4.137	9.306	0.968763	0.108	3.5x10 ⁻⁶		
:	50	3410	420	19.025	3.585	8.119		0.108	3.5x10 ⁻⁶		÷
	50	3470	480	18.465	3.026	7.229		0.108	3.4x10 ⁻⁶		
3	50	3530	540	18.038	2.598	6.537	0.815378	0.108	3.3x10 ⁻⁴		
1	50	3590	600	17.712	2.272	5.983	0.776919	0.108	3,3x10 ⁻⁶		
	50	3890	900	16.774	1.334	4.322	0.635685	0.108	3×10-6		*
1	50	4190	1200	16.366	0.896	L	0.543074	0.108	2.8x10 ⁻⁵		
4	50	4490	1500	16.118	0.678	2.993	0.476107	0.108	2.6x10 ⁻⁶		
. ·	50	4790	1800	15.955	0.515	2.661	0.425045	1	2.5x10 ⁻⁶		
1	50	5390	2400	15.775	0.335	2.246	0.35141	0.108	2.2xt0 ⁻⁶	•	
3	50	5990	3000	15.692	0.252	1,997	0.296007	0.108	2x10 ⁻⁶		
1	50	6590	3600	15.640	0.2	1.831	0.262688	1	1.8x10 ⁻⁴		
1 .	50	8390	5400	15.56	0.12	1.554	0.191451	}	1.4x10 ⁻⁴		
i	50	10190	7200	15.512	0.072	1.415	0.150756	0.108	1.1×10 ⁻⁴		
17 14	50	11990	9000	15.503	0.063	1.332	0.124504	0.108	1×10 ⁻⁶	,	
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fise	Time after Pumping Started	Time after Pumping Stopped	Vater Level	Orav- down	£/£"	Log t/t'	Radius of Well	₹²/६	Pumping Rate Q(m³/sec)	Remarks
ain sec	t (sec)	t '(sec)	(m)	5 (m)			r (m)		Qui raecr	
55 00	0		13.67	0			0.198		·	Pumping Statted
,,,	15		14.40	0.73	i		0.108	8×10		*
	30		15.36	1.69			0.108	4x10-*		
i	45		-	-		1	0.108	-		
	60		16.64	2.97			0.108	2×10	· .	
	90		18.21	4.54			0.103	1.333x10 ⁻¹		
	120	ļ	19,24	5.57			0.108	1×10-		
	150		20.20	6.53			0.108	8x10 ^{-\$}	į	
	180	ļ	21.15	7.48			0.108	6.667×10-3		A
	210	İ	22.39	-8.72			0.108	5.714×10-5		
	240		23.43	9.76			0.108	5x10 ⁻⁵		
	270		24.27	10.6			0.103	4.444x10 ⁻⁵		
	300		25.12	11.45			0.108	4×10 ⁻⁵		
*	360		26.49	12.82	4 1		0.108	3.333x10-3	1	
	420		27.675	14.005			0.108	2.857x10 ⁻⁵		
	480		28.61	14.94			0.108	2.5×10 ⁻⁵		
	540		29.425	15.755			0.108	2.222x10-5	1	
	600		30.11	16.44			0.108	2x10-5	0.00177	Q = 103.8 t/min Q = 0.0017 m3/sec
			32.16	18.49			0.108	1.333×10 ⁻⁵		
100	900		33.40	19.73		•	0.108	1x10-5	'	
	1200		34.115	20,445			0.108	8x10-4		
1.5	1500	1	1	21.17		ļ	0.108	6.667×10-4		
	1800	1	34.84	21.57	1		0.108	5x10 ⁻⁶	0.00181	
	2460		35.24				0.108	5x10-5	0.00166	
i Š	3000		35.37	21.7			0.108	3.333x10°6		
1	3600		34 255	20.585		ļ.,	0.108	2.222x10-	1	Fumping Stopped
	5400	0	33.530	19.85		2.558	0.108	2.216×10-4		
	5415	15	32.645	18.975	361	1	0.108	2.21x10 ⁻⁴	İ	
	5430	30	31.910	18.23	181	2.258	0.108	2.204×10"		
	5445	45	31.111	17.441	121	2.083	0.108	2.198×10-5		•
	5460	50	30.321	16.651	91	1.959	0.108	2.186×10 ⁻⁶		
	5490	90	28.775	15.105	61	1.785	I	2.174x10-1		
	5520	120	27.31	13.64	46	1.663	0.108	2.167×10 ⁻⁴		
	5550	150	25.935	12.265	37	1.568	0.108	2.151x10		
	5589	180	24.68	11.01	31	1.491	0.103	2,131x10 2,139x10 ⁻¹		
	5610	210	23.515	9.845	26.714	1,427	0.108			
	5640	240	22.37	8.7	23.5	1.371	0.108	2.128x10		
	5670	270	21.575	7.905	21.	1.322	0.108	2.116x10"		
	\$700	300	20.875	7.205	19	1.279	0.108	2.105×10		
	5760	360	19.615	5.945	16	1.204	0.103			
	5820	420	18.52	4.85	13.857	1,142	0.108			
,	5880	480	17.59	3.92	12.25	1.088	0.108			
	5940	540	16.845	3.175	11	1.041	0.108			
	6000	600	16,193	2.523	10	11	0.108			(
	6300	900	14.51	0.84	1	0.845	0.108			
	6600		14.074	0.404	5.5	0.740	0.108			
	6900	1500	13.918			0.663	0.108			
;	1200	1800	13.837			0.602	0.108			
٠	7800	2400	13.747	1	•	0.512	0.108			
	8400	3000	13,705		1	0.447	0.108	1.429×10		
	10200	4800	13.64	-0.03	2.125	0.327	0.108			
	12000	6600	13.577	j.		0.26	0.108			



Date of Pumping Test (J-No. 3), 29 Mar. 1982

Tice	Time after Pumping Started	Time after Pumping Stopped	Vater Level	Draw- down	£/t'	Log	Radius of Well	r²/t	Pumping Rate	- Remarks
ia sec	t (sec)	t'(sec)	(m)	s(m)		t/t'	t (a)	170	Q(m³/sec)	
3 00	0	 	13.555	0		T	0.108		i	
,-	30	,	15.71	2.155		!	0.103	3.883x10	į	
	60		17.332	•	1	1	0.108	1.944x10		,
	90		19.07	5.515			0.108	1.29333x10		
	120		20.475	6.92		i	0.108	9.7x10 ⁻³		
	150		21.633	8.018			0.108	7.76×10 ⁻⁵		
	130	1	22.663	9.108			0.108	6.45666×10 ⁻⁵		
	210		23.437	9.882			0.108	5.54285x10 ⁻⁵		· ·
	₹49		24.131	10.576			0.108	4.85×10 ⁻⁵		
	270		24.772	11.217	ļ		0.108	4.31111×10 ⁻⁵		
	300		25.30	11.745			0.108	3.88×10 ⁻⁵		
	360	ļ	26.182	12.627			0.108	3.23333x10 ⁻⁵		
-	420		26.866	13.311			0.108	2.77142×10		
	480		27.407	13.852	1		0.108	2.425x10 ⁻⁵		
	540		27.815	14.26		1.	0.103	2.15555×10 ⁻³		
	600		28.15	14.595			0.103	1.94×10 ⁻³		Q = 154.9 C/min
	900		29.127	15.572	1		0.103	1.29333x10 ⁻³		* 0.00258 a³/sec
	1200		29.61	16.055			0.103	9.7x10 ⁻⁶		
	1500		29.895	16.34	ļ		0.108	7.76x10 ⁻⁶		
	1800		30.04	16.485			0.198	6.46665x10-6		
	2400		30.20	16.645			0.108	4-85x10-6		
	3000		30.476	16,921	!		0.108	3.88×10 ⁻⁴		
	3600	0	30.477	16.922			0.108	3.23338×10 ⁻⁵	-	·
	3660	60	28.052	14.502	61	1,78533	ì		1	
	3690	90	25.717	12.162	41	1.61278				
	3720	120	23.605	10.05	31	1.49136]			
	3750	150	21.838	8.283	25	1.39794	1			
	3780	180	20.27	6.715	21	1.32222				
	3810	210	18.977	5.422	18.142857	1.25871				
	3840	240	17.936	4.381	16	1.20412				
	3870	210	17.091	3.536	14.3333	1.15635			i	
Ì	3900	300	16.437	2.882	13	1.11394	1			'
	3930	330	15.879	2.324	11.90909	1.07588				
	3960	360	15.421	1.366	11	1.04139				:
	4020	420	14.736	1.181	9.5714285	0.980977				
į	4080	480	14.322	0.767	8.5	0.929419				
İ	4140	540	14.042	0.465	7.6565655	0.88467				
	4200	600	13.849	0.294	7	0.845098				•
	4260	650	13.715	0.16	6.4545454	0.809866				
	4560	960	13.332	-0.223	4.75	0.676694				
	4860	1260	13.141	-0.414	3.8571428	0.586266				•
	5160	1560	13.0	-0.555	3.3076923	0.519525	Ì			:
ļ	5460	1860	12.913	-0.625	2.9354838	0.46768	·			
	6060	2460	12.778	-0.777	2.4634146	0.391538				
İ	6660	3060	12,685	-0.87	2.1764705	0.337753			1	
	7260	3660	17.624	-0.931	1.9836065	0.297456				
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Table . Data of Pumping Test (J-No. 4), 6 Apr. 198

Tie	:_	Time after Pumping Started t (sec)	Time after Pumping Stopped t'(sec)	Water Level (m)	Drav- down s (m)	t/t ¹	tog t/t'	Radius of Well r (m)	r2/t	Pumping Rate Q(m³/sec)	Remarks
ď	sec	(360)	(360)	(97)	ļ	<u> </u>	ļ	1	<u> </u>	Q(m'/sec)	
9 15	00	•		5.500	0			0.108	0		Pumping Started
		15		6.325	0.825	İ		0.108	7.78x10		
		30		6,720	1.220			0.108	3.89x10		
		45		5.825	1.325]		0.108	2.39x10		
		60		6.954	1.454	•		0.108	1.95x10		
		90	!	7.092	1.592			0.193	1.30x10	1	
		120		7.205	1.705			0.108	9.72x10 ⁻³		
		159	ĺ	7.294	1.794	İ		0.108	7.78×10 ⁻⁵		
		180	•	7.370	1.870	1		0.108	6.48×10		
		210	1	7.430	1.930	i .	ļ	0.108	5.55x10 ⁻⁵		
		240	1	7.489	1.969		•	0.108	4.86×10 ⁻⁵	1	
		270		7.550	2.050			0.108	4.32x10		
		300		7.593	2.093	1		0.108	3.89x10 ⁻⁵		
ĺ		360		7.670	2.170	1		0.108	3.24x10	. *	
		420		7.745	2.245	-	1	0.108	2.78×10 ⁻⁵		
		48)		7.812	2.312	•		0.103	2.43x10 ⁻⁵		1
l		540	İ	1.875	2.375			0.108	2.16×10 ⁻⁵		
		600	ľ	7.912	2.412			0.108	1.94x10 ⁻⁵		
		900		8.140	2.649			0.108	1.30x10 ⁻⁵		
		1200		8.285	2.186			0.108	9.72×10 ⁻⁶		
ž		1500		8.408	2,908			0.108	1.78x10 ⁻⁵		
		1800		8.500	3.000	:	1	0.108	6.48x10 ⁻⁶		Q = 244.26 1/min
	Ì	2400	1	8.647	3.147	1		0.108	4.86x10 ⁻⁶		= 0.004071 m ³ /sec
		3000	'	8.755	3.255	1		0.108	3.89×10 ⁻⁶		
		3600		8.836	3.336	!		0.108	3.24x10 ⁻⁶	0.004071	
		5425		9.020	3.520		Ì	0.108	2.15×10 ⁻⁶	,	
15	00	7200	0	9.100	3.600	0		0.108	1.62x10 ⁻⁵		Pumping Stopped
		7215	15	8.277	1.777	481	2.682	0.103	1.62×10 ⁻⁶		towythy stopped
	l	7230	30	7.873	2.373	241	2.362	0.103	1.61x10 ⁻⁶		
		1245	\$5	7.746	2.245	161	2.207	0.108	1.61x10 ⁻⁶		
	Ì	7250	60	7.664	2.164	121	2.083	0.108	1.61x10 ⁻⁶		•
		7290	90	7.467	1.967	81	1.908	0.108	1.60x10 ⁻⁶		
		7320	120	7.358	1.858	61	1.785	0.108	1.59x10 ⁻⁶		
		7350	150	1.267	1.767	49	1.690	0.108	1.59x10 ⁻⁶		
		7380	180	7.191	1.691	41	1.613	0.108	1.58x10 ⁻⁴		
Ì	Į	7410	210	7.135	1.635	35.3	1.548	0.108	1.57x10 ⁻⁴		•
		7440	240	7.071	1.571	31	1.491	0.108	1.57x10~6		
	Į	7470	270	7.030	1.530	27.7	1.442	0.108	1.56×10 ⁻⁶	,	
		7500	300	6.970	1.470	25	1.398	0.108	1.55x10 ⁻⁶		
		7560	360	6.891	1.391	21		0.108	1.55x10		
		7620	420	6.830	1.337	18.1	1.322	0.108	1.53x10 ⁻⁶		
		7680	430	6,765	1.265	16	1.258	0.108	1.52xt0 ⁻⁶		
ł		7740	540	6.710	1.210	14.3	1.204	0.108	1.52xt0 1.51x10 ⁻⁶		
	·	7800	600	6.662	1.162	13	1.155	0.108	1.50x10		
l	ļ	8400	1200			7	1.114		1.39x10		
	į	9060		6.324	0.824		0.815	0.108			
		12600	1800 5400	6.146	0.646	5	0.699	0.108	1.30×10 ⁻⁶ 9.26×10 ⁻⁷		
45	00	16200	l .	5.165	0.265	2.3	0.362	0.108	7.20x10 ⁻⁷		
ľ	**	19700	9000	5.665	0.165	1.8	0.255	0.108	1.20x10		
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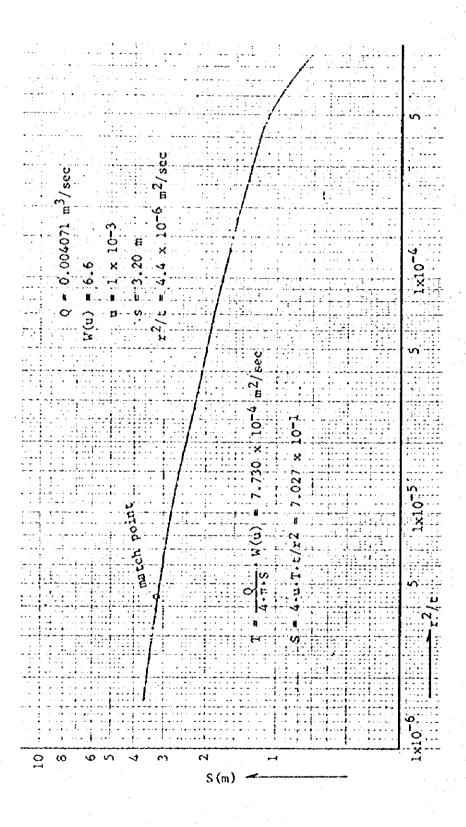
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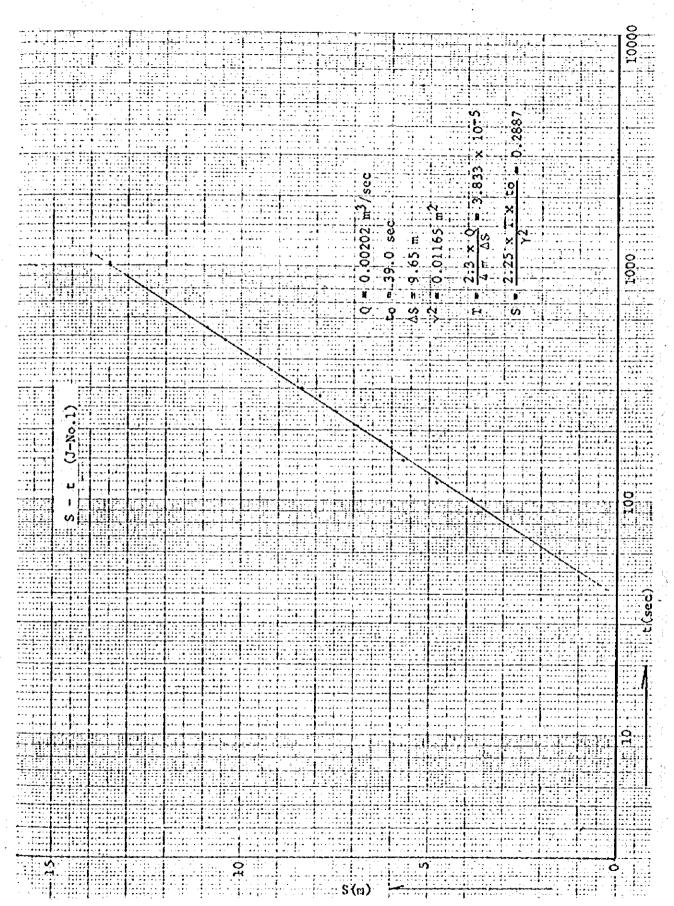


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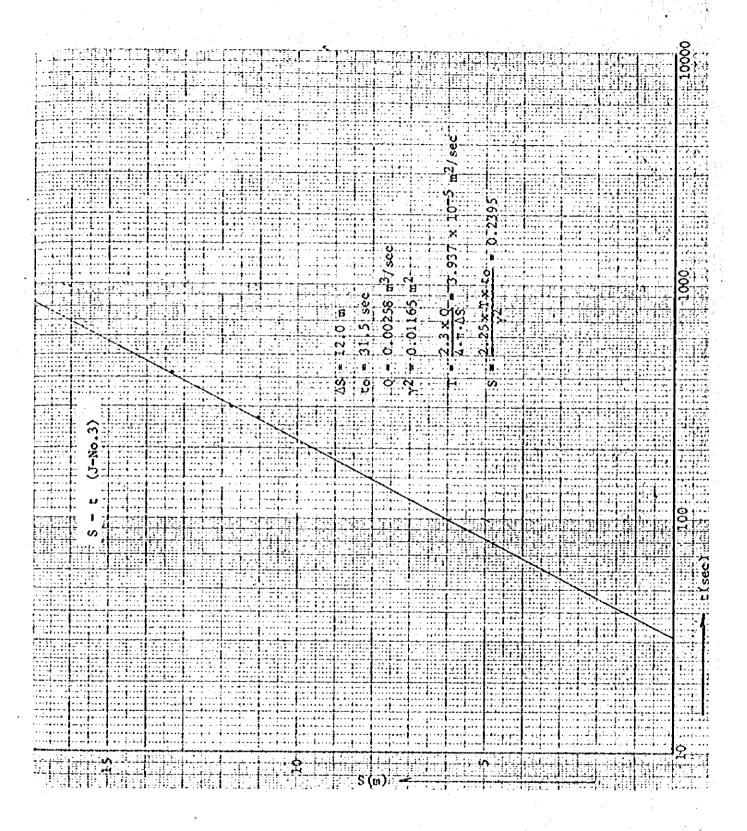
- r2/c (J-No.2)

 $5 - r^2/t$ (J-No.3)











S - t - (J-No.4

STANDARD OF DRINKING WATER **APPENDIX** (The Ministry of Public Health No.61, 1981)

1) Physical Properties

. Colour not more than 20

. Odor no other order

(not include chlorine)

. Turbidity not more than 5

. PH value between 6.5 - 8.5

2) Chemical Properties

Total solid not more than 500 mg/kg

. Total hardness not more than 100 mg/kg

. Arsenie not more than 0.05 mg/kg

. Barium not more than 1.0 mg/kg

. Cadmium not more than 0.01 mg/kg

. Chloride (expressed as chlorine) not more than 250 mg/kg

. Chromium not more than 0.05 mg/kg

. Copper not more than 1.0 mg/kg

. Iron not more than 0.5 mg/kg

. Lead not more than 0.1 mg/kg

. Manganese Not more than 0.05 mg/kg

. Mercury (Hg) not more than 0,002 mg/kg

. Nitrates (expressed as nitrogen) not more than 4.0 mg/kg

. PL not more than 0.001 mg/kg

Silver not more than 0.01 mg/kg

. Sulfate not more than 250.0 mg/kg

. Zine not more than 5.0 mg/kg

. Fluoride (express as fluorine) not more than 1.5 mg/kg

Baeterial Properties

- . Most probable number of coliform organism per 100 ml (M.P.N.) less than 2.2
- . Free from Eschericha coli type 1
- . There are not bacterial for illness

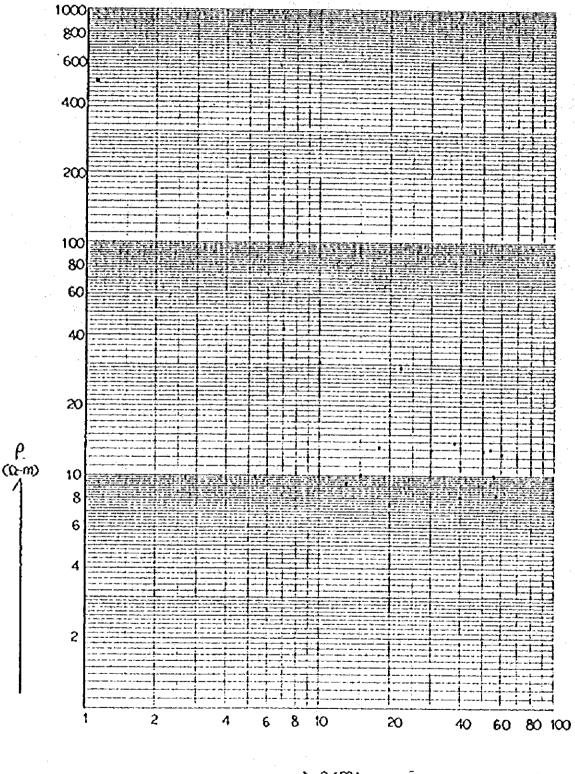
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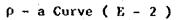
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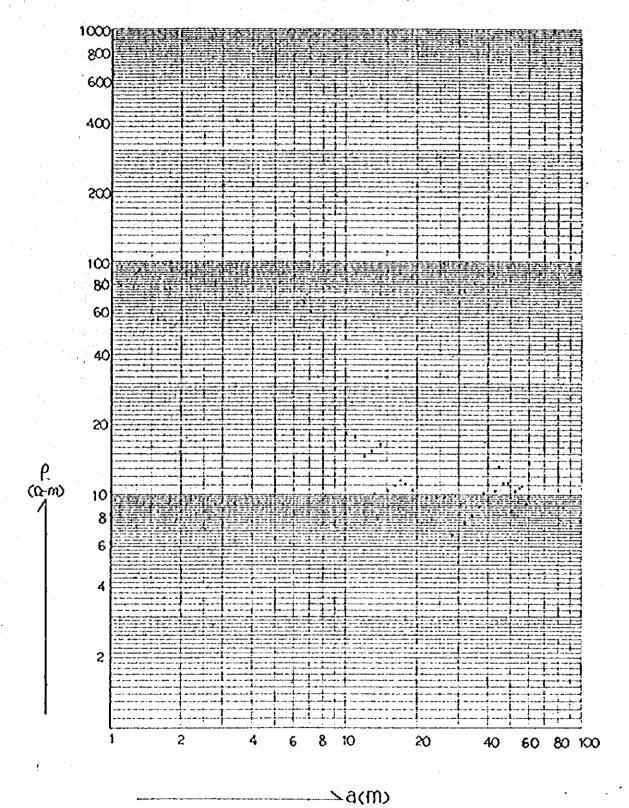
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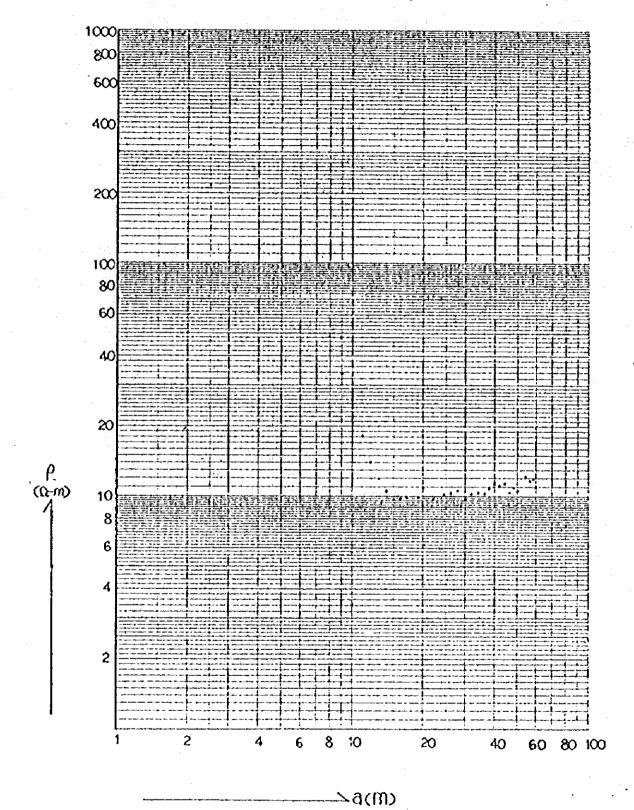


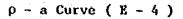


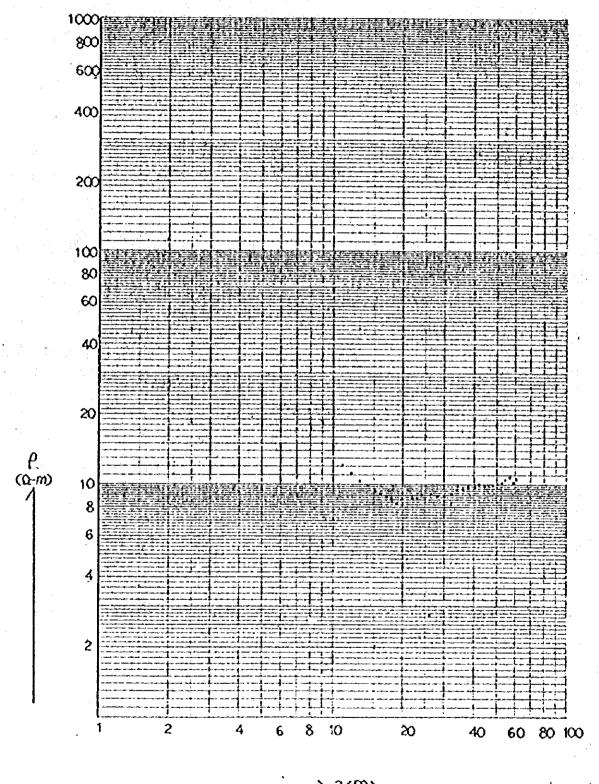


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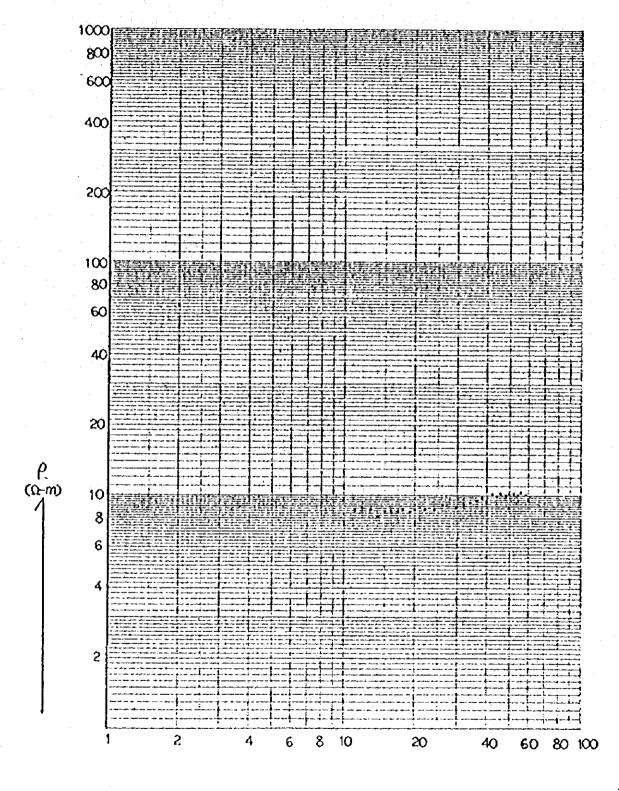






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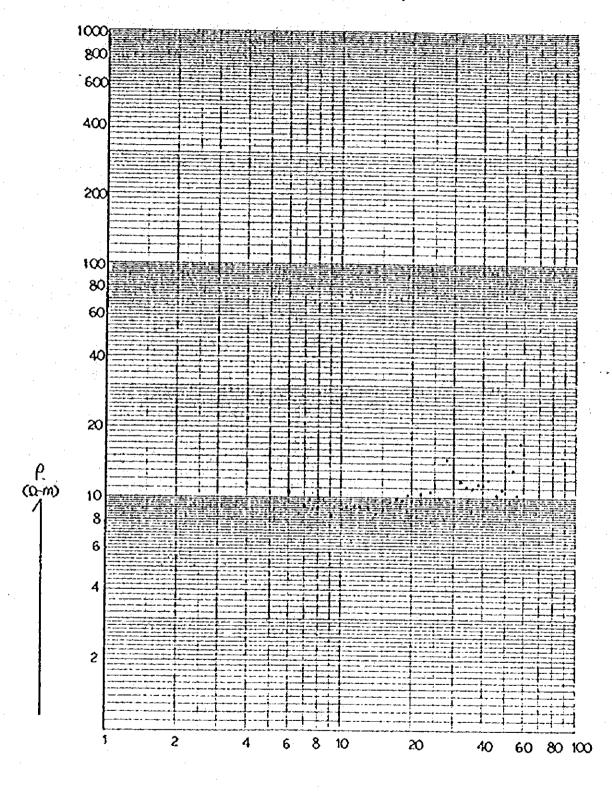
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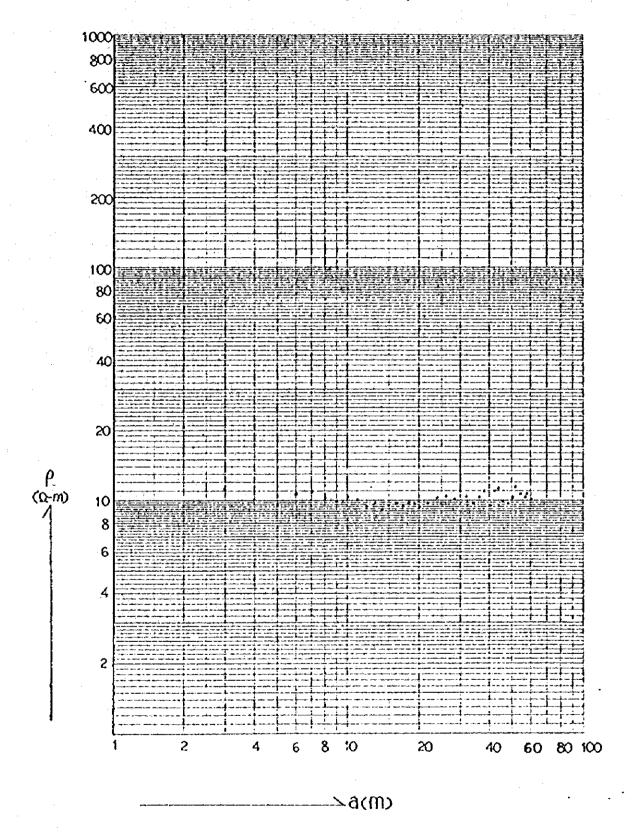


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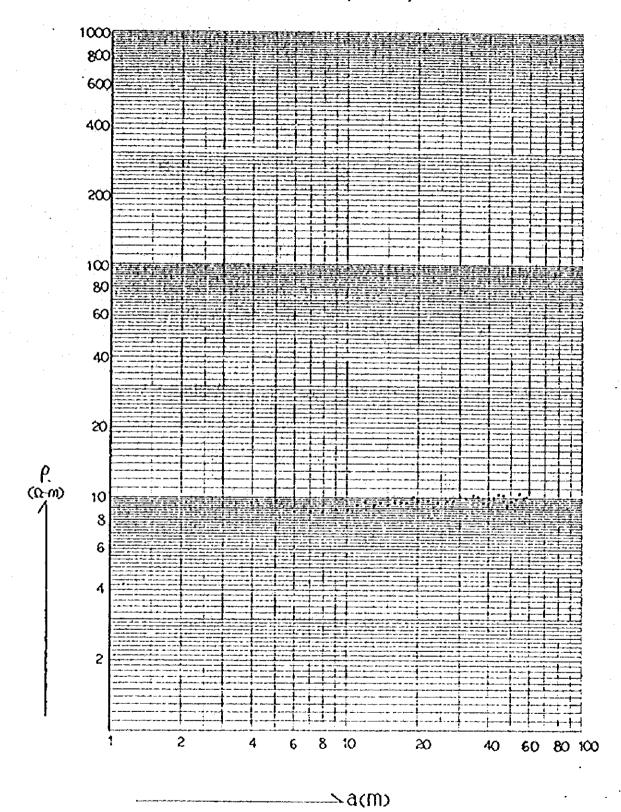
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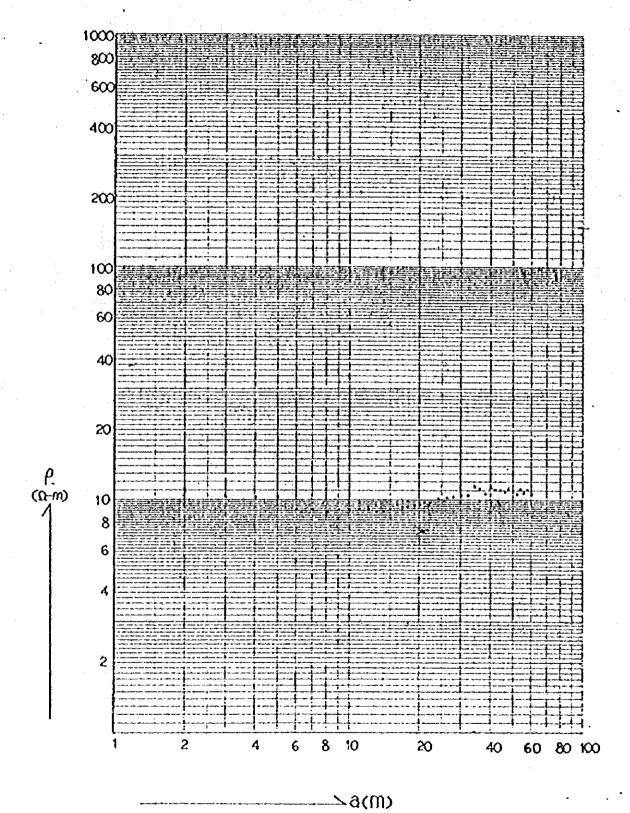
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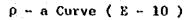
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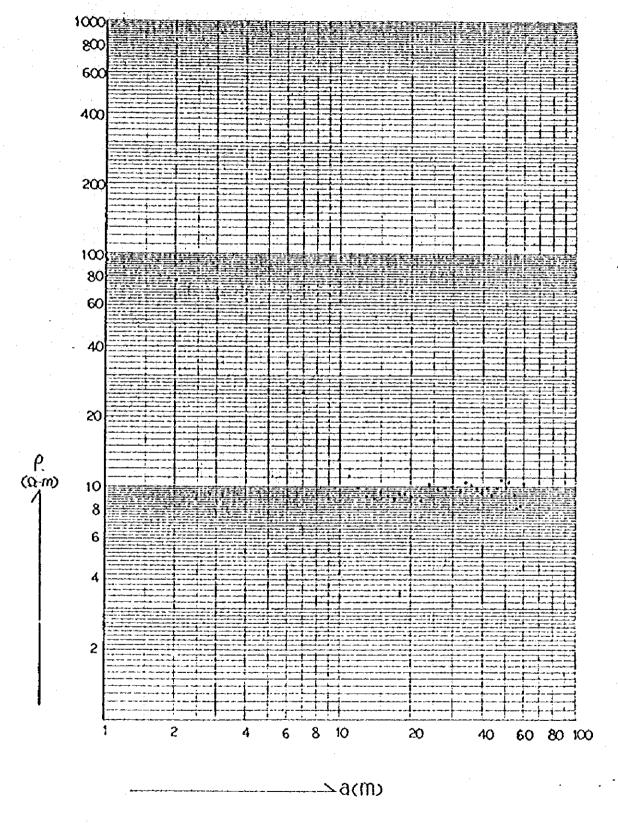
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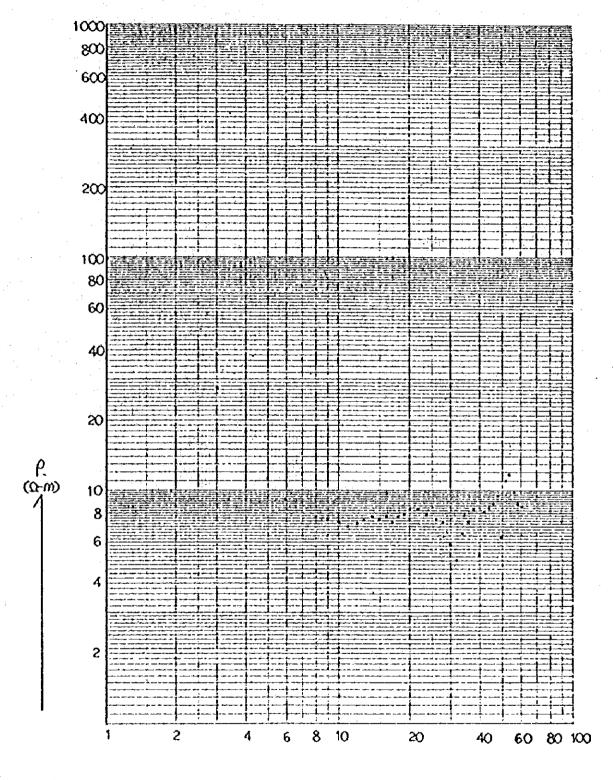
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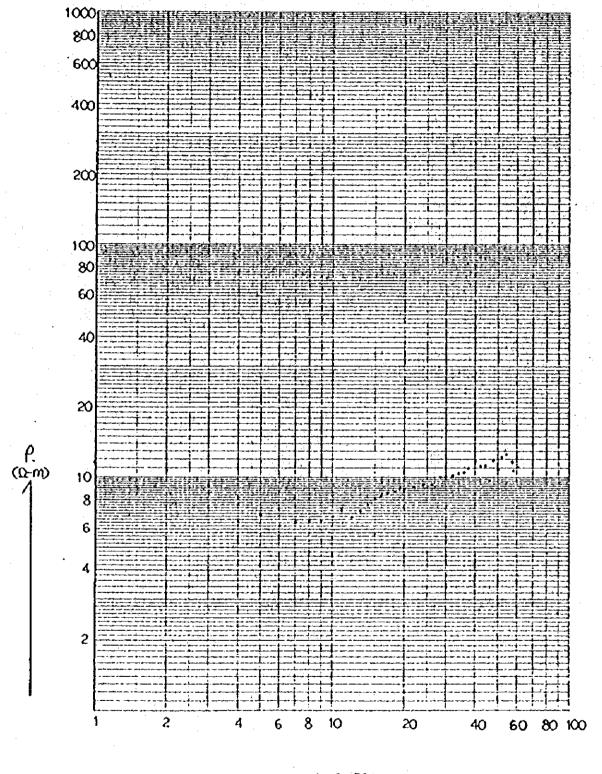


ρ - a Curve (E - 11)

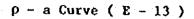


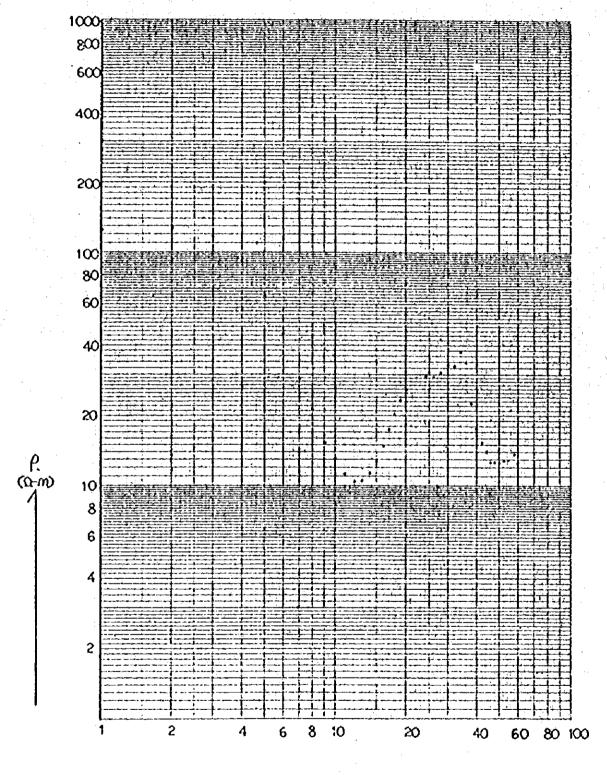
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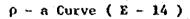


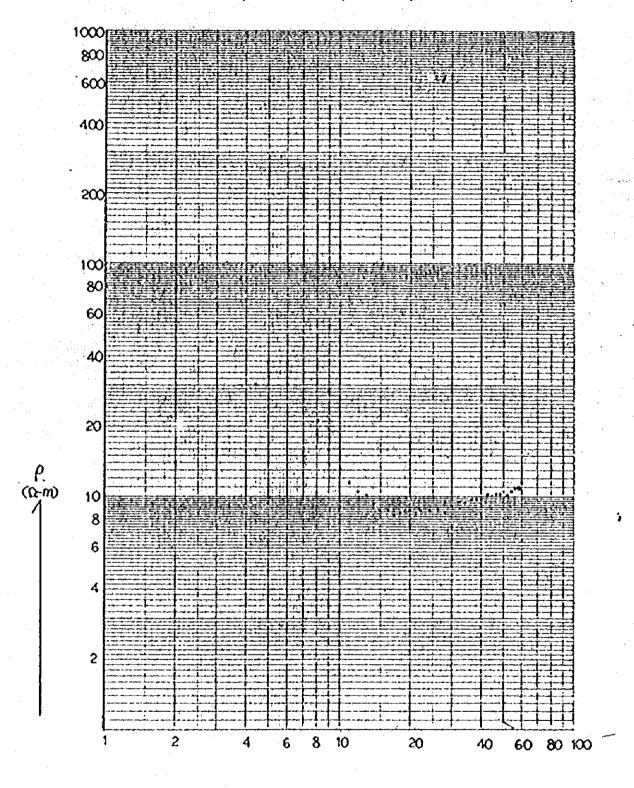
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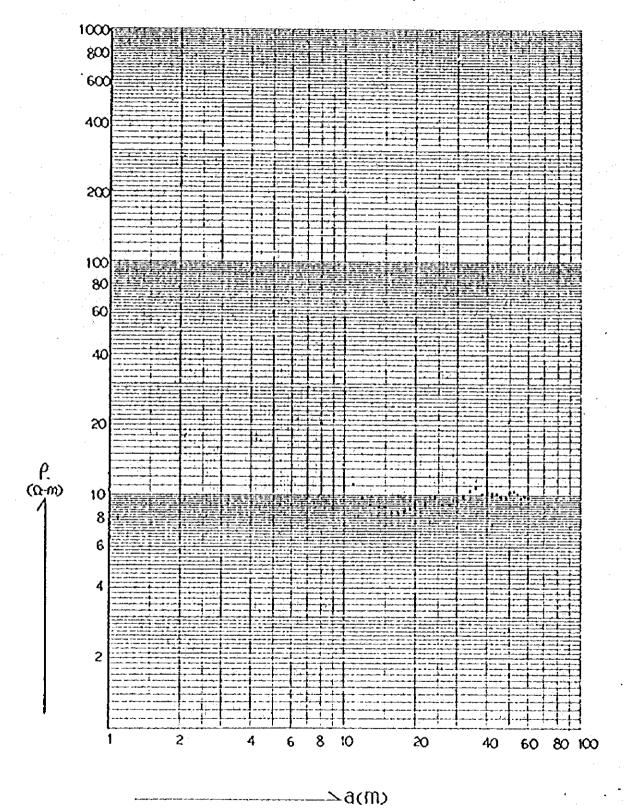
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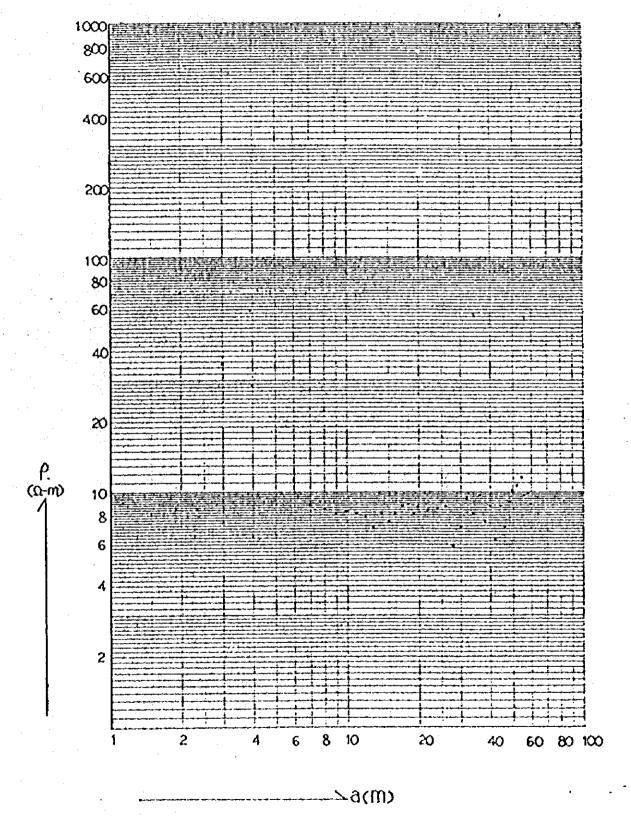


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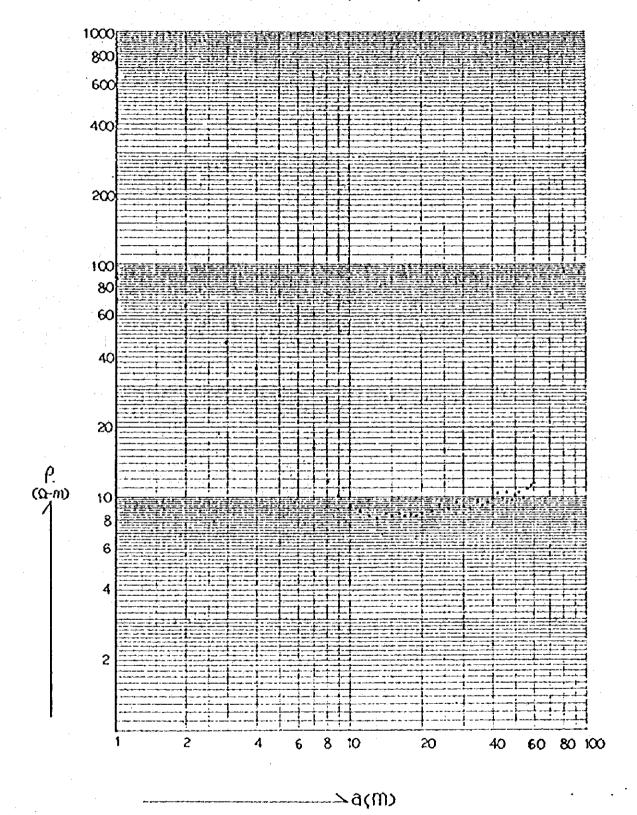
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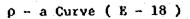


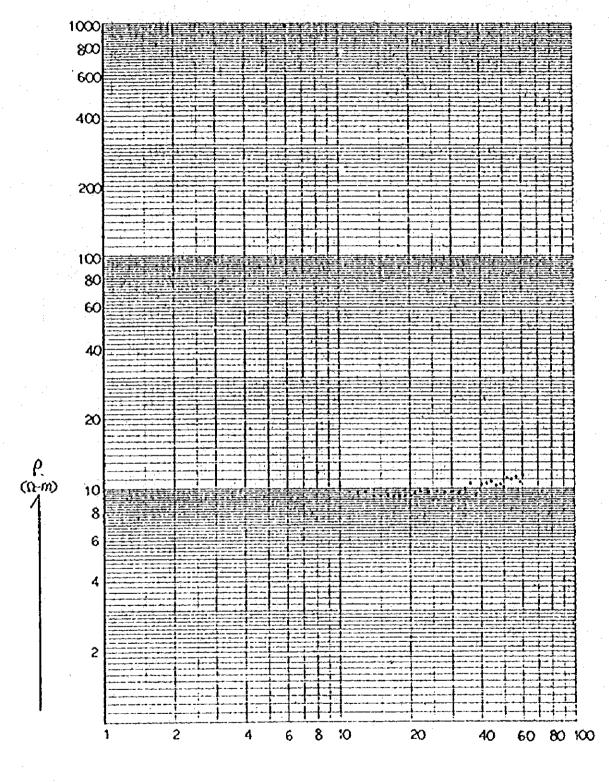




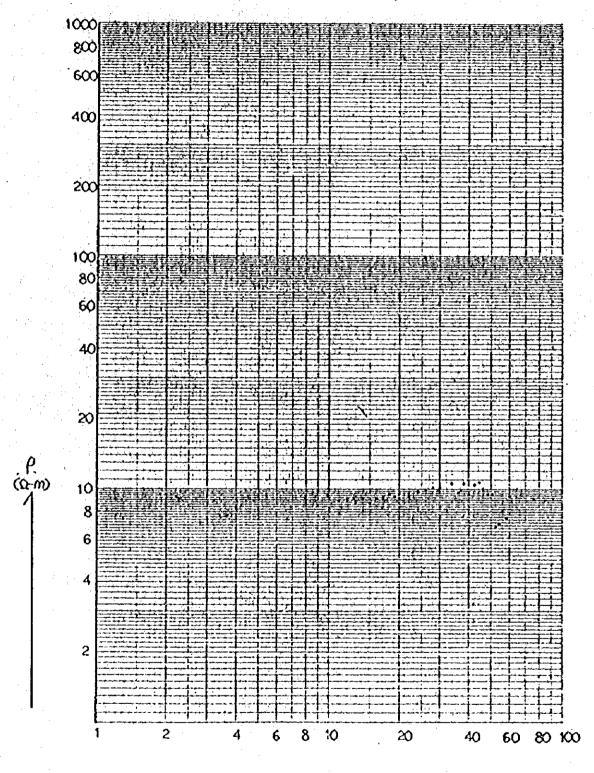
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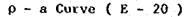


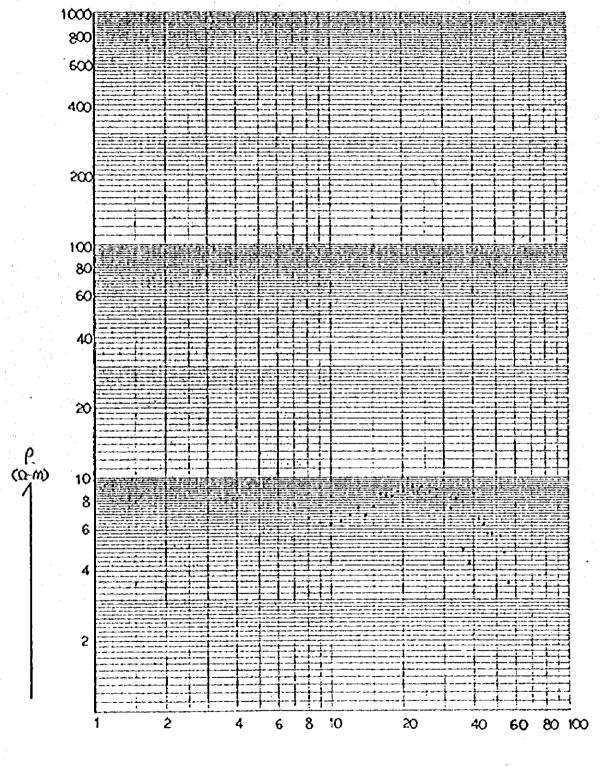




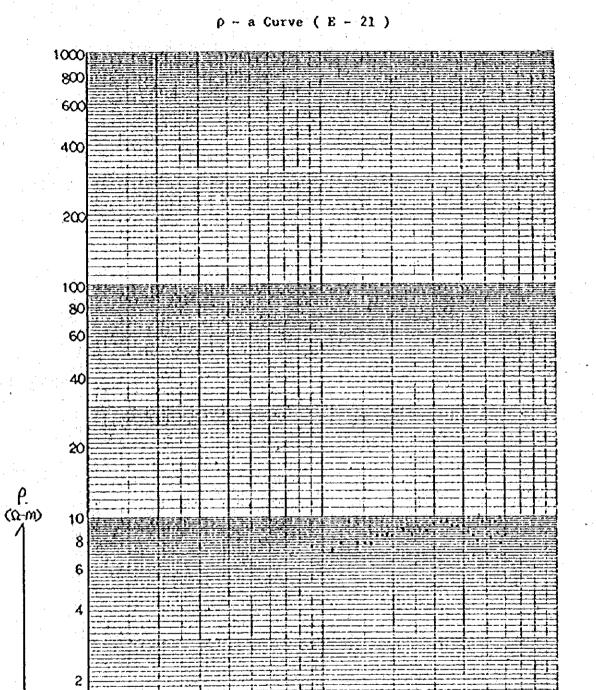
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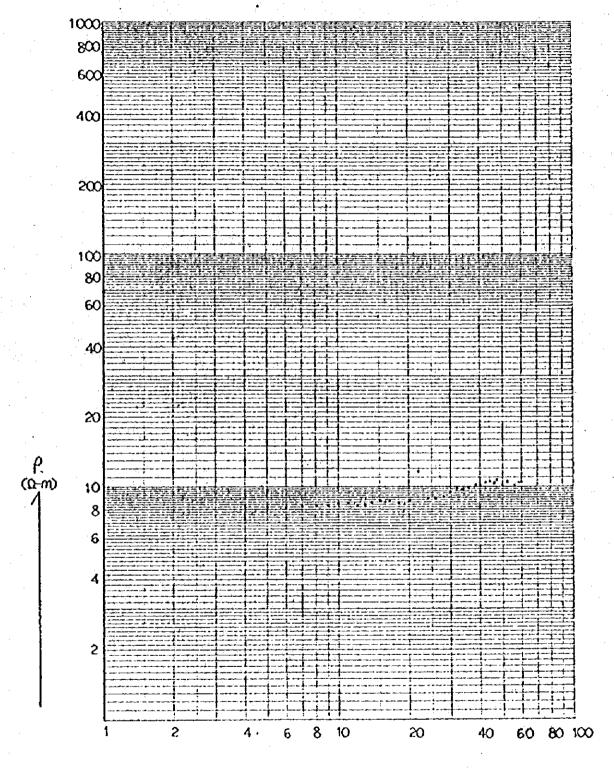
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