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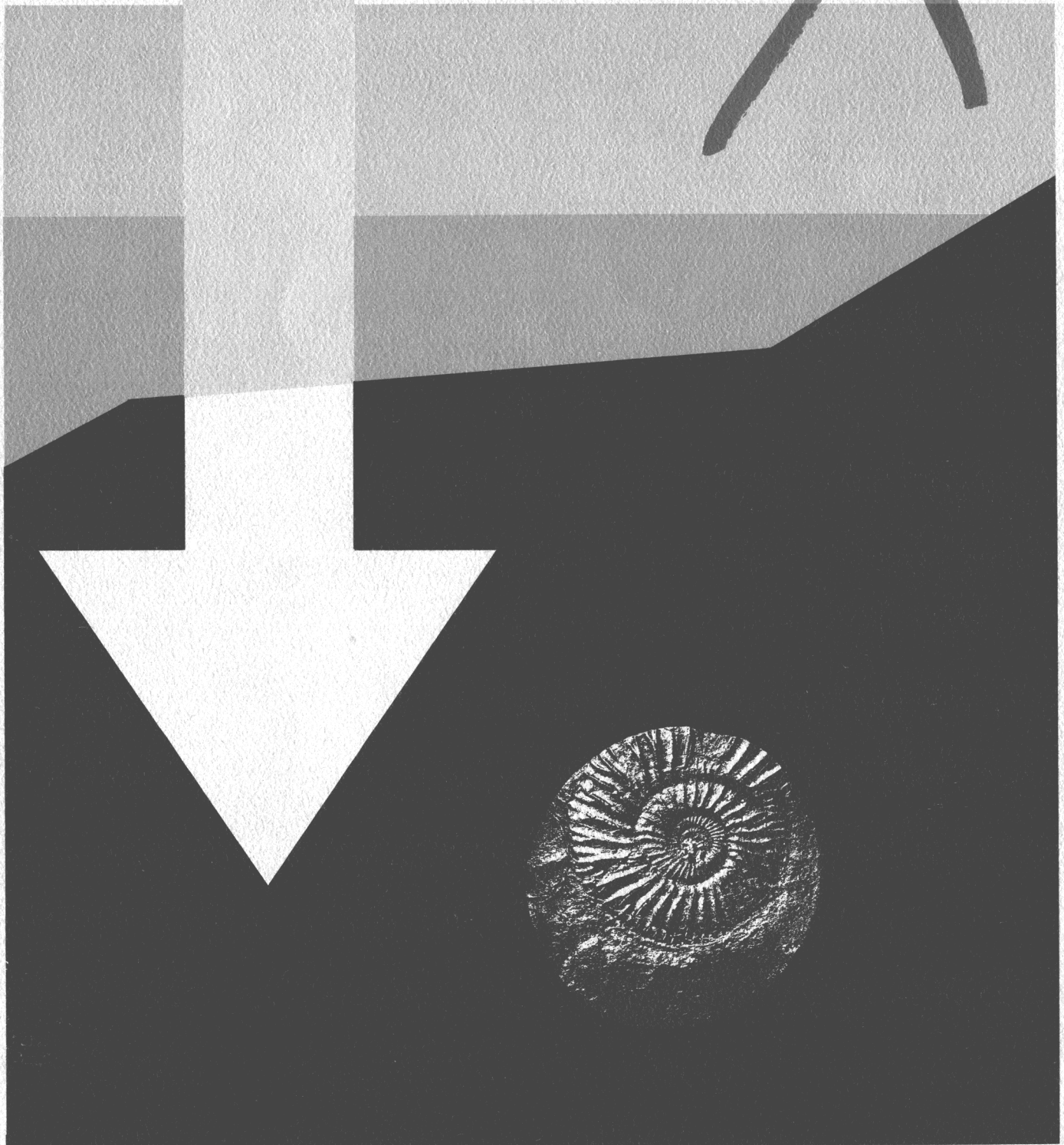
1730

Grain size distribution analysis  
of 36 selected samples from cores  
1-6. Norsk Hydro well 30/7-2,  
1753,0-1821,0 m.



NTNF'S

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N T N F K   G E O L O G I C A L   L A B O R A T O R Y

in cooperation with Scanwell

Grain size distribution analysis of 36 selected samples  
from cores 1-6. Norsk Hydro well 30/7-2, 1753,0-1821,7 m.

To: Norsk Hydro A/S

att.: mr. Hopkinson/mr. Sæbøe

Your ref.: Well 30/7-2, 1753,0-1821,7m

Material: Core samples

Responsible for analyses: Finn Erik Skaar

Date: 7.11.1975

## GRAIN SIZE DISTRIBUTION ANALYSIS

36 samples were processed. These were chosen to represent as closely as possible the successive lithological units present in the section. As only samples taken at intervals of 0.5 m were prewashed in toluene and available for processing a lower limit is set on the thickness of units that may be analysed.

The grain size distribution analyses were performed on unconsolidated material already washed in warm toluene for grain density measurement. The fraction greater than 0.063 mm was analysed by pipetting (Andreasen). No flocculation occurred during the pipette analyses.

The raw data was treated by a computer programme and all the calculated values are reproduced in the appendix of this report. The cumulative percentages are plotted. (phi-values versus cumulative percent in logarithmic normal distribution scales respectively).

The mathematical formulas used are presented below:

$$\text{Mean: } M_z = \frac{(\phi_{84} + \phi_{50} + \phi_{16})}{3}$$

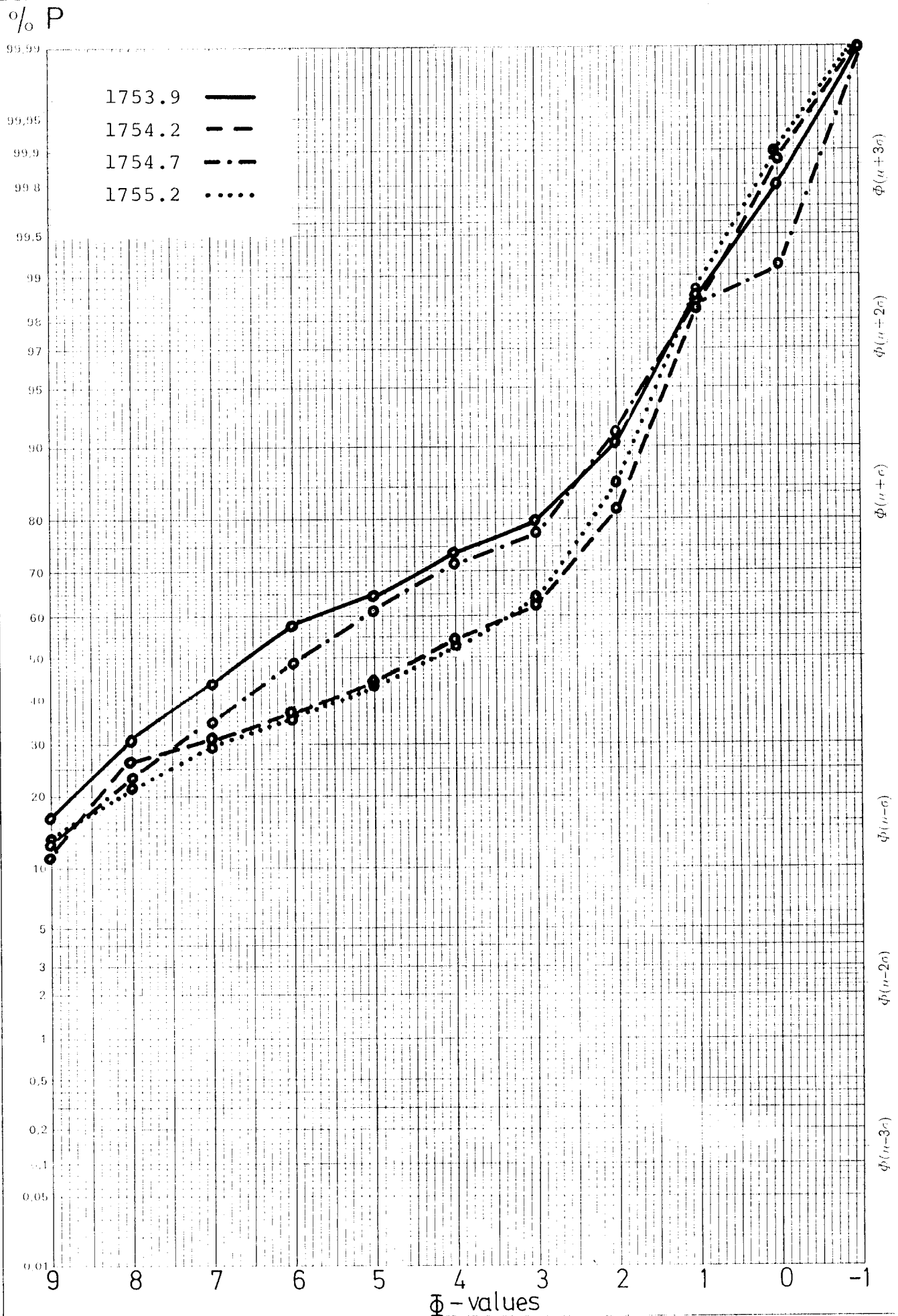
$$\text{Sorting: } S_I = \frac{\phi_{16} + \phi_{84}}{4} + \frac{\phi_5 + \phi_{95}}{6.6}$$

$$\text{Skewness: } Sk_I = \frac{\phi_{16} + \phi_{84} - 2\phi_{50}}{2(\phi_{16} + \phi_{84})} + \frac{\phi_{45} + \phi_{95} + 2\phi_{50}}{2(\phi_5 - \phi_{95})}$$

$$\text{Kurtosis: } K_G = \frac{\phi_5 - \phi_{95}}{2.44(\phi_{25} - \phi_{75})}$$

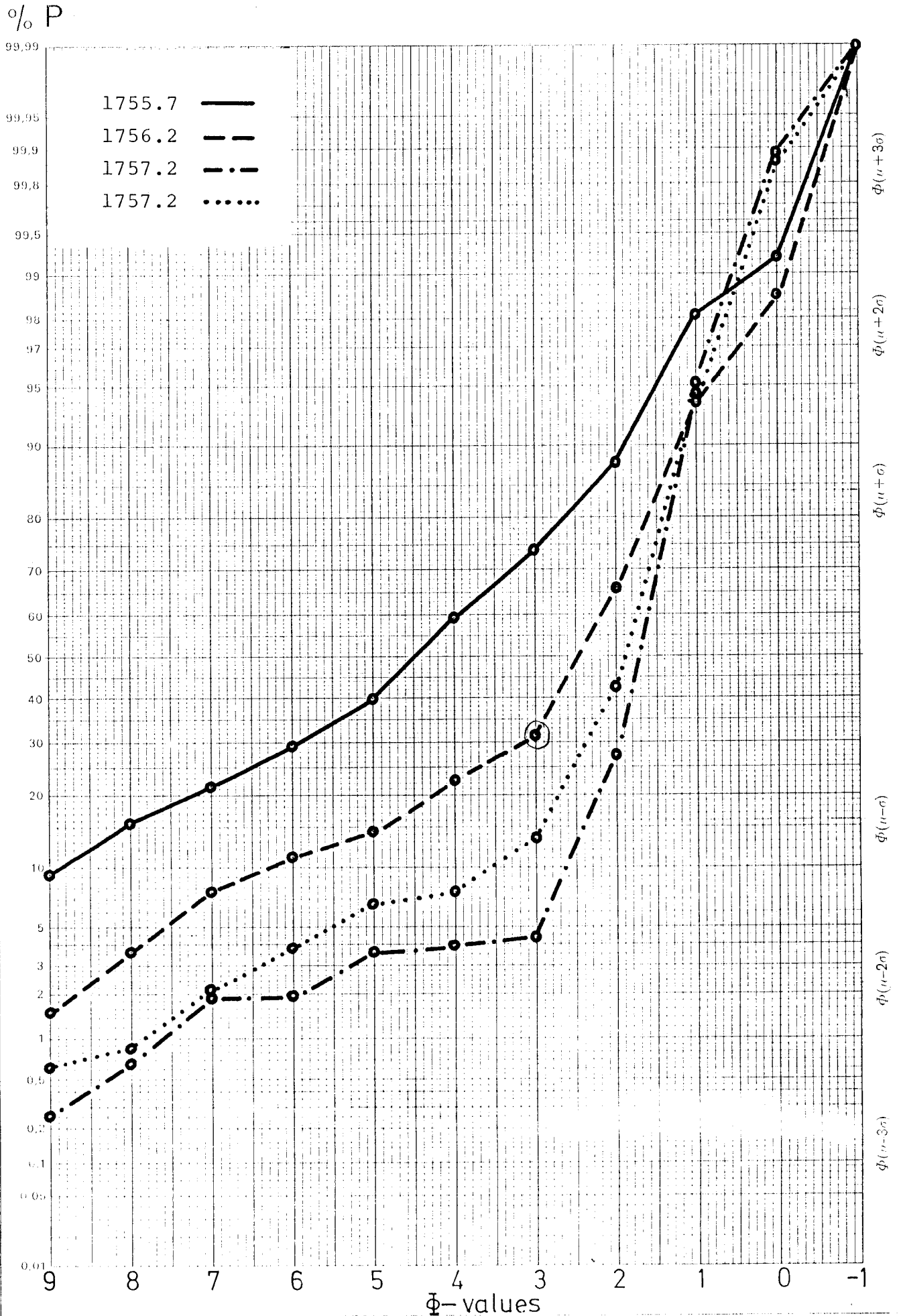
Note: The curves are plotted with the finest fraction to the left. This is in accordance with the Scandinavian routine and opposite of common practice in USA. The calculated values for mean, sorting, skewness and kurtosis are the same in both systems.

NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



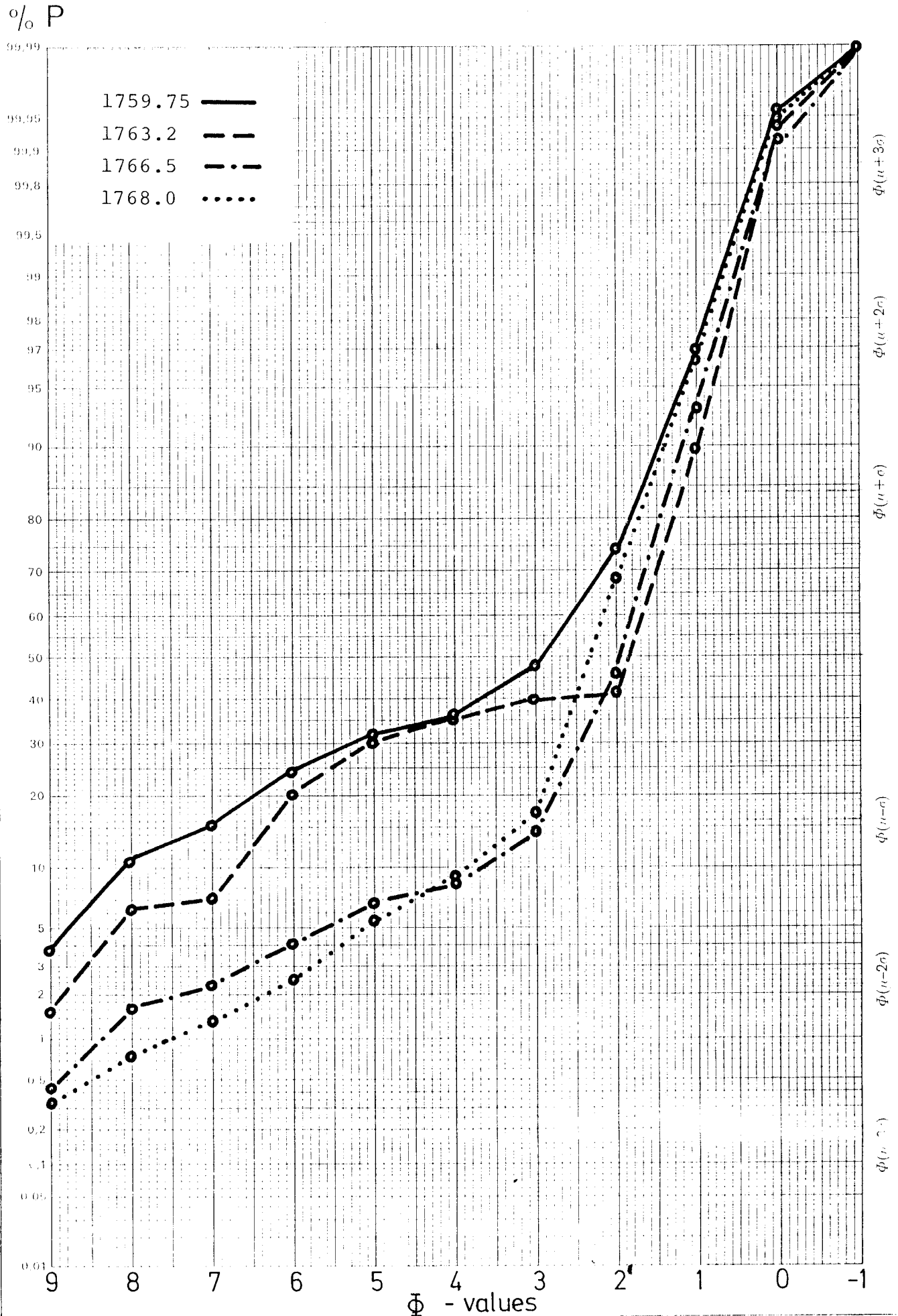
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NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



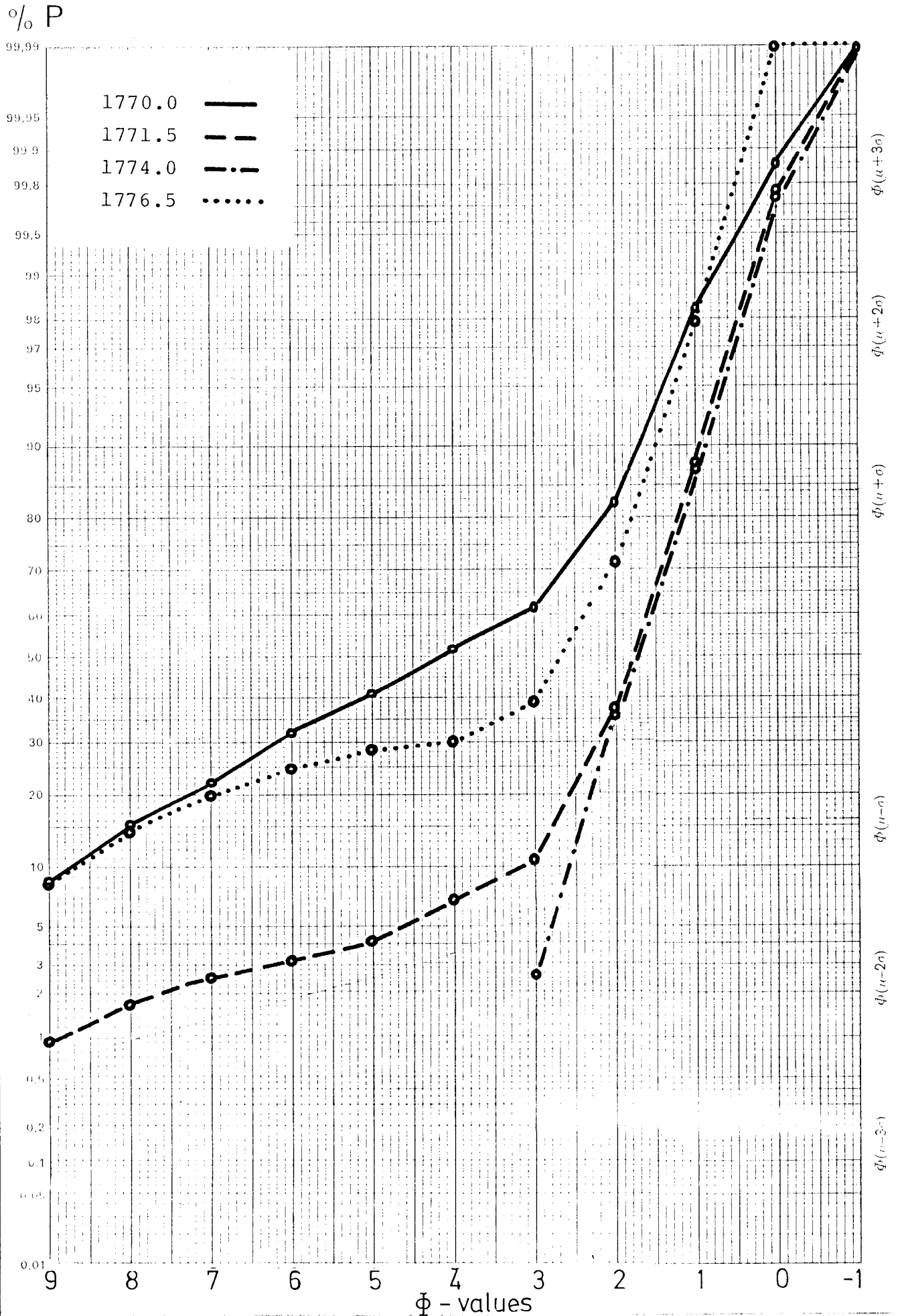
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 GRAIN SIZE DISTRIBUTION ANALYSIS



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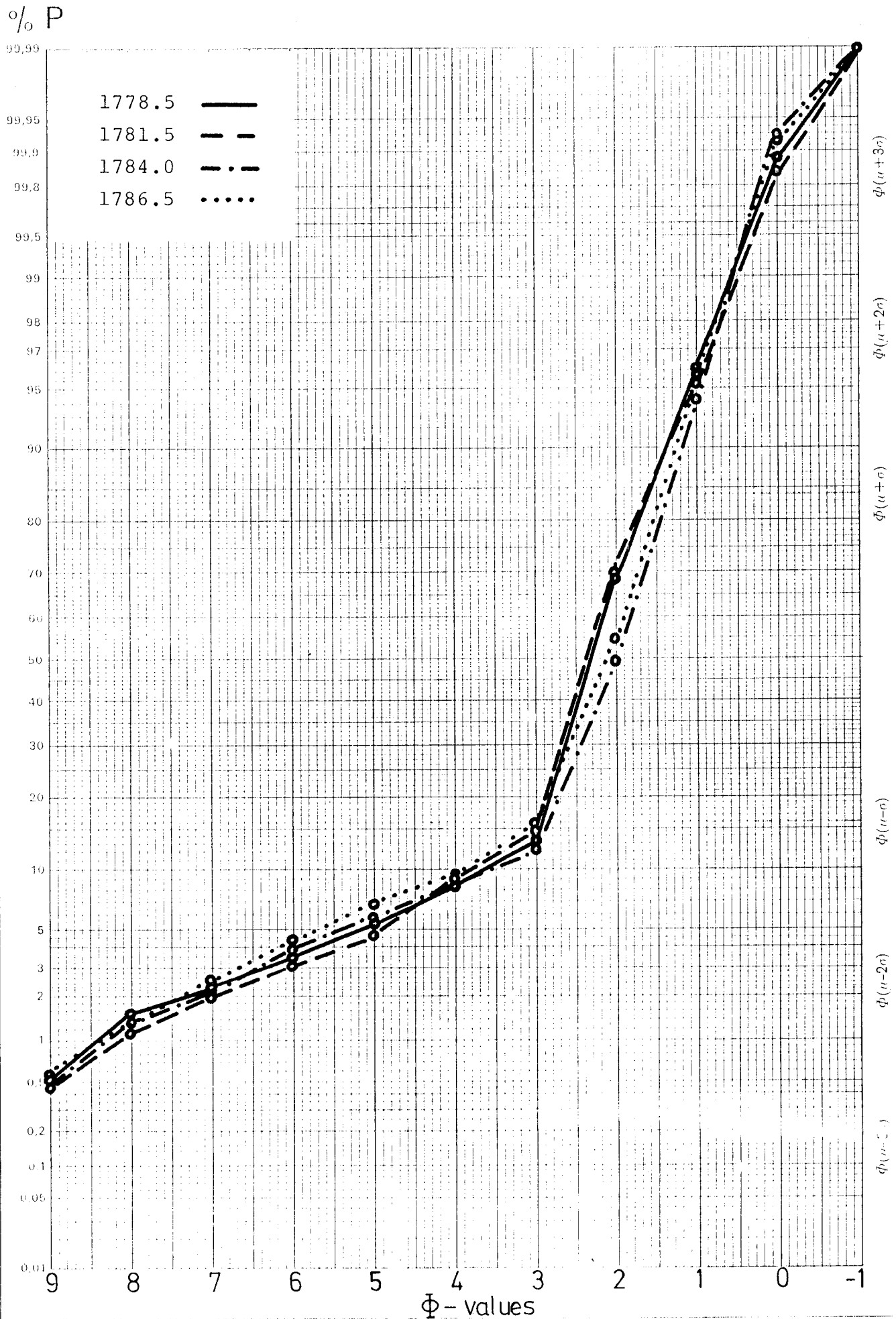
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 GRAIN SIZE DISTRIBUTION ANALYSIS



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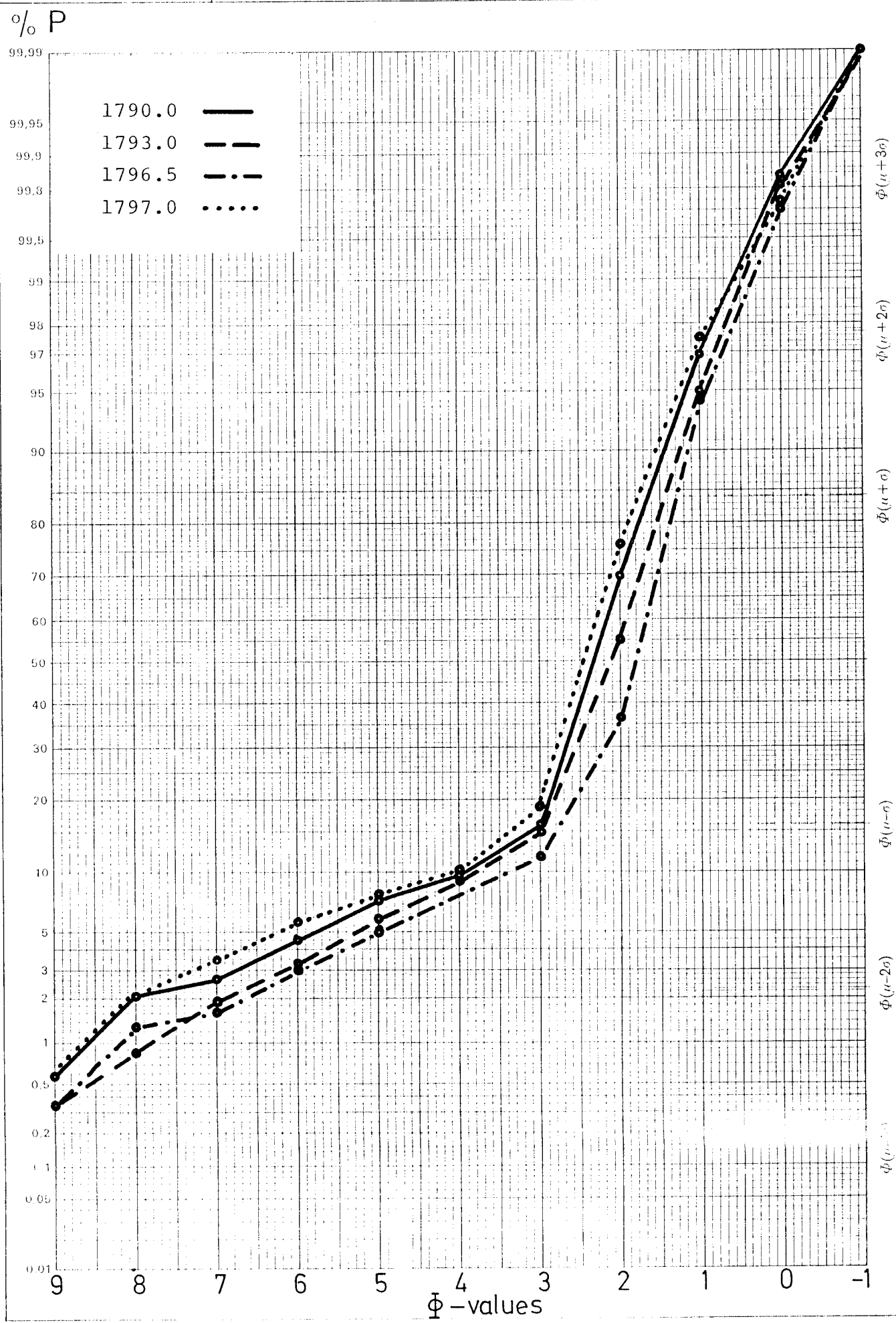
NORSK HYDRO A/S WELL 30/7-2  
GRAIN SIZE DISTRIBUTION ANALYSIS



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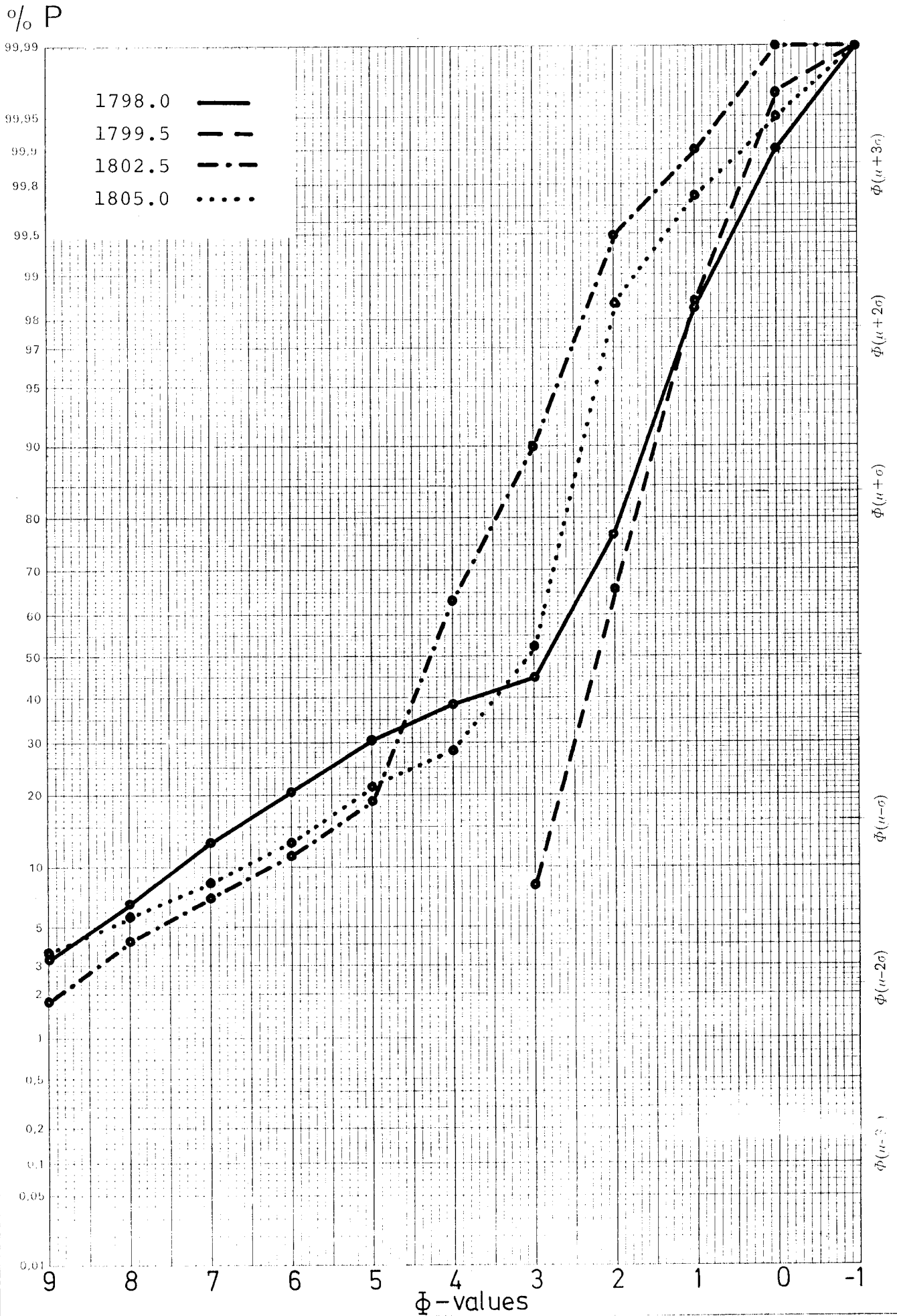


NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



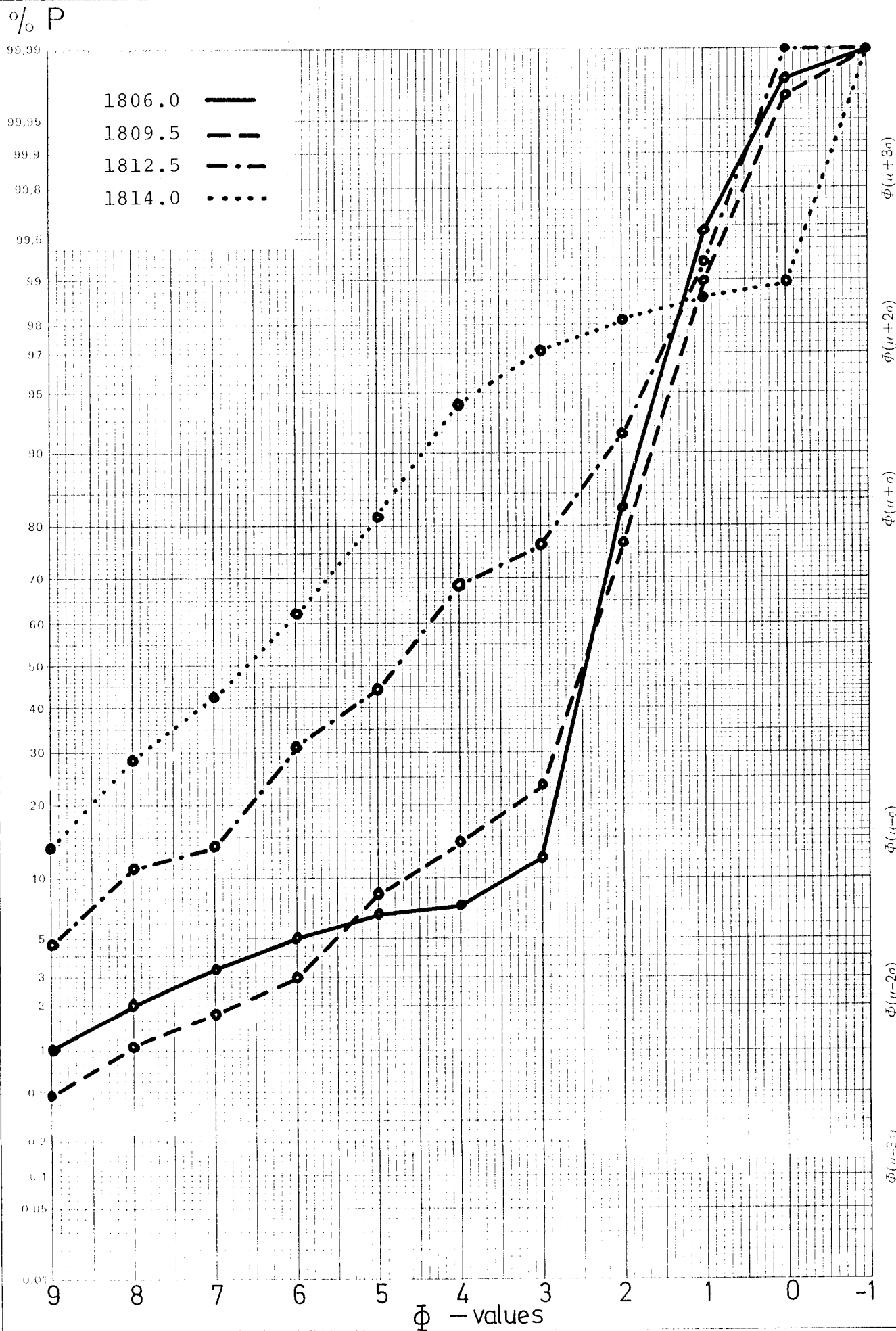
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NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



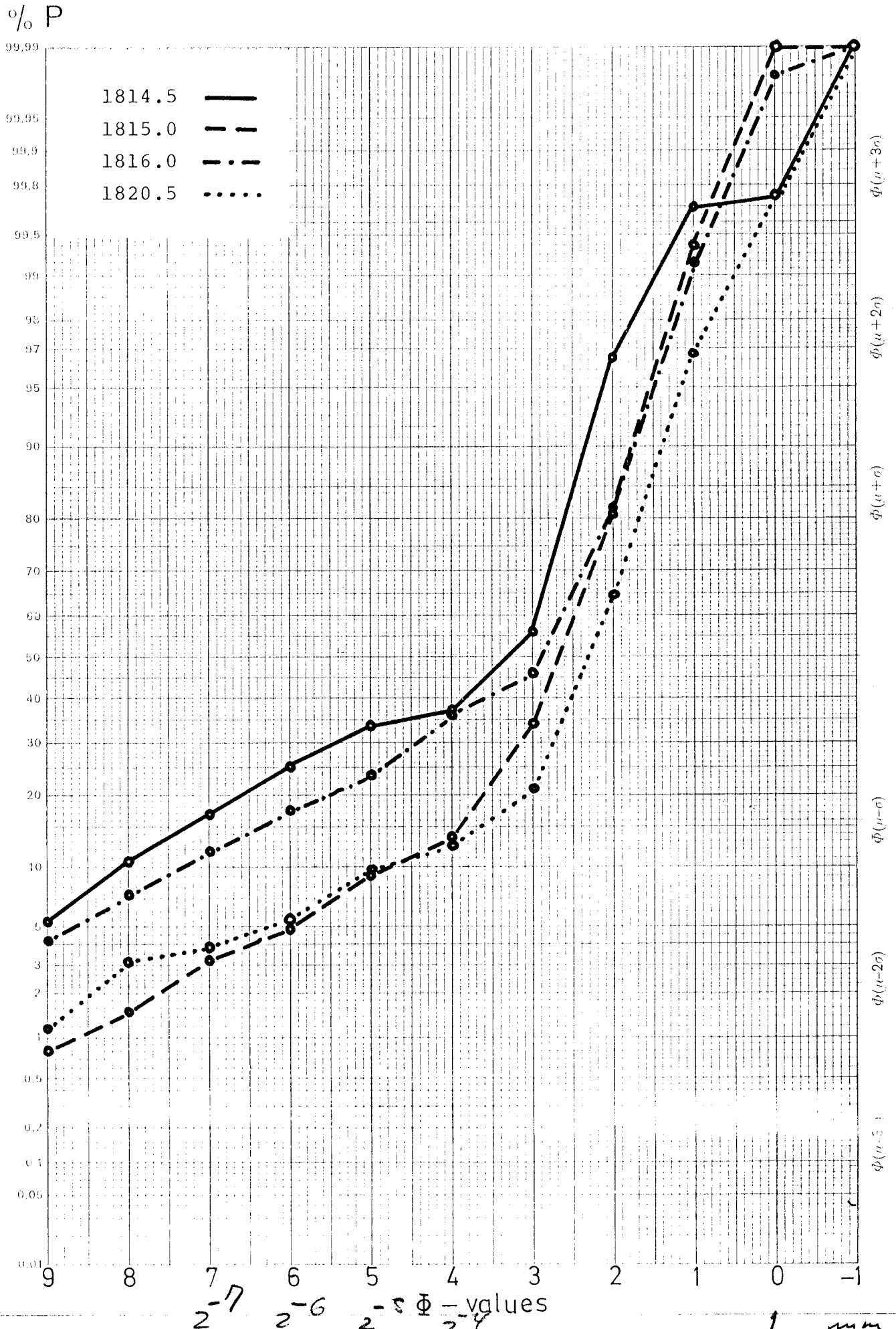
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NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



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NORSK HYDRO A/S WELL 30/7-2  
 GRAIN SIZE DISTRIBUTION ANALYSIS



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A P P E N D I X

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NORSK HYDRO WELL 30/7-2 1753.9 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.0830	.4883	3.0740	4.5630	2.6703	3.7120	2.8307	5.8947	5.0496	5.9258	6.0775
WEIGHT %	0	0	0	0	.20	1.19	7.50	11.14	6.52	9.06	6.91	14.39	12.33	14.40	10.30
CUMULATIVE %	100.00	100.00	100.00	100.00	59.80	98.61	91.10	79.96	73.45	64.39	57.48	43.09	30.76	14.38	

MATERIAL LESS THAN 63 MICRONS: 30.0404 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

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NORSK HYDRO WELL 30/7-2 1754.2 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.0192	.2280	2.5340	2.8727	1.1395	1.5289	1.0637	.8550	.7338	2.3025	1.0529
WEIGHT %	0	0	0	0	.13	1.52	16.89	19.15	7.60	10.59	7.09	5.70	4.89	15.35	11.09
CUMULATIVE %	100.00	100.00	100.00	100.00	59.87	98.35	81.46	62.31	54.71	44.12	37.03	31.33	26.44	11.09	

MATERIAL LESS THAN 63 MICRONS: 8.2069 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

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NORSK HYDRO WELL 30/7-2 1754.7 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.1927	.1486	1.6328	3.1542	1.3700	2.4278	2.9436	3.1781	2.5477	2.5323	2.9697
WEIGHT %	0	0	0	0	.83	.64	7.07	13.66	5.93	10.51	12.74	13.75	11.03	10.96	12.86
CUMULATIVE %	100.00	100.00	100.00	100.00	59.17	98.52	91.45	77.80	71.87	61.35	48.61	34.85	23.82	12.86	

MATERIAL LESS THAN 63 MICRONS: 16.5989 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

NORSK HYDRO WELL 3077-2 1755.2 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.0653	.6081	6.3722	10.6804	5.6781	4.3174	3.2822	3.2822	4.5644	3.8585	34.420
WEIGHT %	0	0	0	0	.13	1.24	12.98	21.58	11.56	8.79	6.68	6.68	9.29	7.66	113.20
CUMULATIVE %	100.00	100.00	100.00	100.00	99.87	98.63	85.65	64.07	52.51	43.72	37.03	30.35	21.06	13.22	

MATERIAL LESS THAN 63 MICRONS: 25.7467 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

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NORSK HYDRO WELL 3077-2 1755.7 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.6776	1.0429	9.1458	12.6770	13.5352	17.3824	9.5949	6.9949	5.3330	6.0024	61.492
WEIGHT %	0	0	0	0	.75	1.15	10.08	13.97	14.82	19.16	10.57	7.60	5.88	6.62	9.34
CUMULATIVE %	100.00	100.00	100.00	100.00	99.25	98.10	88.02	74.05	59.17	40.01	29.44	21.84	15.96	9.34	

MATERIAL LESS THAN 63 MICRONS: 53.6468 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

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NORSK HYDRO WELL 3077-2 1756.2 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.8546	2.8278	17.0840	21.1167	5.3187	5.1590	1.9627	2.748	2.5234	1.2337	.9533
WEIGHT %	0	0	0	0	1.40	4.63	27.96	34.56	8.79	8.44	3.21	3.40	4.13	2.02	1.56
CUMULATIVE %	100.00	100.00	100.00	100.00	98.60	93.97	66.02	31.46	22.76	14.32	11.10	7.71	3.58	1.56	

MATERIAL LESS THAN 63 MICRONS: 13.9070 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
7.66	4.81	3.74	2.46	1.68	1.36	.78
MEAN	SORTING		SKEWNESS		KURTOSIS	
WZ = 2.874	SI = 1.94		SKI = .434		KG = 1.367	

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NORSK HYDRO WELL 30/7-2 1757.2 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0617	2.4975	41.7184	9.0951	.2736	.1827	.9373	.0295	.715	.2240
WEIGHT %	0	0	0	0	.11	4.47	74.68	16.28	.49	.33	1.68	.05	1.26	.40
CUMULATIVE %	100.00	100.00	100.00	100.00	99.89	95.42	20.74	4.46	3.97	3.64	1.96	1.91	.65	.25

MATERIAL LESS THAN 63 MICRONS: 2.2165 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
2.97	2.29	1.94	1.61	1.27	1.15	1.01
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 1.684	SI = .582		SKI = .293		KG = 1.200	

NORSK HYDRO WELL 30/7-2 1757.7 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0455	1.9188	17.8715	11.1509	.8558	.3956	.9929	.5973	.4189	.0931
WEIGHT %	0	0	0	0	.13	5.56	51.80	32.18	2.48	1.15	2.88	1.73	1.21	.27
CUMULATIVE %	100.00	100.00	100.00	100.00	99.87	94.31	42.50	10.33	7.85	6.70	3.82	2.09	.88	.61

MATERIAL LESS THAN 63 MICRONS: 2.7071 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.99	2.82	2.54	1.86	1.37	1.20	.88
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 1.959	SI = 1.121		SKI = .389		KG = 1.650	

NORSK HYDRO WELL 30/7-2 1759.7 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0527	3.5529	27.8920	33.4622	14.5487	6.6672	9.0779	18.7742	7.1217	8.9097
WEIGHT %	0	0	0	0	.04	2.82	22.10	26.52	11.53	4.81	7.19	8.54	5.64	7.06
CUMULATIVE %	100.00	100.00	100.00	100.00	99.96	97.14	75.04	48.52	36.99	32.18	24.99	16.45	10.80	3.74

MATERIAL LESS THAN 63 MICRONS: 46.6730 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
8.92	7.08	6.00	2.94	2.00	1.59	1.10
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 3.873	SI = 2.542		SKI = .515		KG = .792	

NORSK HYDRO WELL 30/7-2 1763.2 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0674	11.0100	52.6443	2.2939	4.6643	4.7391	11.9267	14.2172	1.0268	4.9768
WEIGHT %	0	0	0	0	.06	10.07	48.16	2.10	4.27	4.34	10.91	13.01	.94	4.55
CUMULATIVE %	100.00	100.00	100.00	100.00	99.94	89.87	41.70	39.60	35.34	31.00	20.09	7.08	6.14	1.59

MATERIAL LESS THAN 63 MICRONS: 38.6235 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
8.25	6.31	5.55	1.83	1.31	1.12	.49
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 3.028	SI = 2.474		SKI = .692		KG = .750	

NORSK HYDRO WELL 30/7-2 1760.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1095	9.5245	68.7474	46.5159	8.8296	2.2174	4.0288	2.4672	1.1139	1.6448
WEIGHT %	0	0	0	0	.08	6.53	47.14	31.89	6.86	1.52	2.76	1.69	.76	1.13
CUMULATIVE %	100.00	100.00	100.00	100.00	99.92	93.39	46.26	14.36	8.30	6.78	4.02	2.33	1.56	.44

MATERIAL LESS THAN 63 MICRONS: 12.1072 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.64	2.95	2.67	1.92	1.39	1.20	.75
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.023	SI = 1.178		SKI = .349		KG = 1.571	

NORSK HYDRO WELL 30/7-2 1768.0 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0612	4.1821	33.9148	63.1762	10.4409	4.0698	3.6193	1.3190	.7239	.5145
WEIGHT %	0	0	0	0	.05	3.42	27.79	51.67	8.53	3.32	2.96	1.08	.59	.42
CUMULATIVE %	100.00	100.00	100.00	100.00	99.95	96.53	68.84	17.24	8.71	5.39	2.43	1.35	.76	.34

MATERIAL LESS THAN 63 MICRONS: 10.6650 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.12	3.15	2.85	2.37	1.78	1.45	1.06
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.321	SI = 1.39		SKI = .139		KG = 1.555	

NORSK HYDRO WELL 30/7-2 1770.0 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1631	1.8991	18.5493	24.9435	13.4341	10.4779	11.0042	11.5647	8.1882	7.2217
WEIGHT %	0	0	0	0	.14	1.60	15.65	21.74	11.33	8.84	9.28	9.76	6.91	6.66
CUMULATIVE %	100.00	100.00	100.00	100.00	99.86	98.26	82.61	61.57	50.23	41.40	32.11	22.36	15.45	8.76

MATERIAL LESS THAN 63 MICRONS: 59.5457 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

NORSK HYDRO WELL 30/7-2 1771.5 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.4251	20.6059	88.7496	47.5173	6.3834	4.9209	1.5973	1.4279	1.3311	1.2988
WEIGHT %	0	0	0	0	.24	11.68	50.31	26.94	3.90	2.79	.91	.81	.75	.74
CUMULATIVE %	100.00	100.00	100.00	100.00	99.76	88.08	37.77	10.83	6.93	4.14	3.24	2.43	1.67	.94

MATERIAL LESS THAN 63 MICRONS: 12.2296 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
4.69	2.81	2.47	1.76	1.26	1.08	.41
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 1.882	ST = 1.81		SKI = .294		KG = 1.447	

NORSK HYDRO WELL 30/7-2 1774.0 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.3048	14.8975	64.1486	41.9982	3.1732	0	0	0	0	0
WEIGHT %	0	0	0	0	.24	11.96	51.52	33.73	2.55	0	0	0	0	0
CUMULATIVE %	100.00	100.00	100.00	100.00	99.76	87.79	36.28	2.55	0	0	0	0	0	0

MATERIAL LESS THAN 63 MICRONS: 6.7422 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
2.93	2.60	2.33	1.73	1.25	1.07	.40
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 1.813	ST = .765		SKI = .040		KG = .955	

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NORSK HYDRO WELL 307-2 1776.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0275	3.9335	48.3708	59.9432	16.4335	2.9338	6.9934	8.6339	10.1431	10.3123
WEIGHT %	0	0	0	0	.01	2.14	26.28	32.57	8.92	1.58	3.80	4.64	5.52	5.51
CUMULATIVE %	100.00	100.00	100.00	100.00	99.99	97.85	71.57	39.00	30.08	28.50	24.70	20.06	14.54	8.94

MATERIAL LESS THAN 63 MICRONS: 55.3597 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

NORSK HYDRO WELL 307-2 1778.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1854	5.8954	42.2375	86.3314	8.1177	4.3325	2.9112	1.8520	1.2112	1.5422
WEIGHT %	0	0	0	0	.12	3.79	27.18	55.56	5.22	2.77	1.87	1.19	.78	.99
CUMULATIVE %	100.00	100.00	100.00	100.00	99.88	96.09	68.90	13.35	8.12	5.35	3.48	2.29	1.51	.52

MATERIAL LESS THAN 63 MICRONS: 12.6189 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.20	2.95	2.79	2.34	1.78	1.44	1.04
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.246	SI = 1.017		SKI = .093		KG = 1.68J	

NORSK HYDRO WELL 307-2 1781.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.2739	8.4937	47.2237	102.9779	9.8573	7.9452	2.8137	2.132	1.5490	1.2306
WEIGHT %	0	0	0	0	.15	4.58	25.49	55.59	5.32	4.29	1.52	1.09	.86	.87
CUMULATIVE %	100.00	100.00	100.00	100.00	99.85	95.27	69.78	14.21	8.89	4.60	3.08	1.99	1.13	.47

MATERIAL LESS THAN 63 MICRONS: 16.4639 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
4.81	2.97	2.81	2.36	1.80	1.44	1.01
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.255	SI = .958		SKI = .047		KG = 1.542	

NORSK HYDRO WELL 3077-2 1784.0 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1134	8.9863	69.7957	57.3327	6.0744	4.1080	2.9554	2.2230	1.5146	1.2715
WEIGHT %	0	0	0	0	.07	5.79	44.96	36.93	3.91	2.65	1.98	1.47	.92	.79
CUMULATIVE %	100.00	100.00	100.00	100.00	99.93	94.14	49.18	12.24	8.33	5.68	3.74	2.31	1.33	.51

MATERIAL LESS THAN 63 MICRONS: 12.9298 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.36	2.91	2.55	1.94	1.43	1.23	.85
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.133	SI = 1.111		SKI = .297		KG = 1.512	

NORSK HYDRO WELL 3077-2 1786.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1213	6.1443	60.1891	57.8773	8.6695	3.8027	4.1531	2.4936	1.4119	1.3603
WEIGHT %	0	0	0	0	.08	4.18	40.95	39.38	5.90	2.59	2.83	1.69	.96	.93
CUMULATIVE %	100.00	100.00	100.00	100.00	99.92	95.74	54.78	15.40	9.50	6.91	4.09	2.40	1.44	.51

MATERIAL LESS THAN 63 MICRONS: 13.9640 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.70	2.98	2.76	2.12	1.51	1.29	1.02
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.131	SI = 1.134		SKI = .273		KG = 1.535	

NORSK HYDRO WELL 3077-2 1790.0 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.2057	3.7030	34.7439	68.9853	7.9984	2.9104	3.5698	2.3704	.7688	1.8945
WEIGHT %	0	0	0	0	.16	2.90	27.17	53.86	6.25	2.28	2.86	1.85	.60	1.44
CUMULATIVE %	100.00	100.00	100.00	100.00	99.84	96.94	69.77	15.91	9.65	7.38	4.52	2.66	2.06	.58

MATERIAL LESS THAN 63 MICRONS: 12.3462 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.53	3.00	2.83	2.37	1.81	1.48	1.07
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.251	SI = 1.12		SKI = .143		KG = 1.916	

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NORSK HYDRO WELL 30/7-2 1793.0 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.1738	4.4084	35.7516	37.072	5.1788	3.1312	2.3104	1.3401	.9278	.3221
WEIGHT %	0	0	0	0	.19	4.84	39.24	40.49	5.68	3.44	2.55	1.47	1.02	.35
CUMULATIVE %	100.00	100.00	100.00	100.00	99.81	94.97	55.73	15.03	9.35	5.91	3.37	1.90	.88	.35

MATERIAL LESS THAN 63 MICRONS: 8.5175 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.36	2.98	2.76	2.14	1.51	1.28	.98
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.132	SI = 1.88		SKI = .227		KG = 1.448	

NORSK HYDRO WELL 30/7-2 1796.5 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.3849	6.6124	73.0509	31.4007	3.5348	5.0125	2.5062	1.5899	.4116	1.4869
WEIGHT %	0	0	0	0	.30	5.23	57.75	24.99	2.78	3.96	1.98	1.26	.33	1.18
CUMULATIVE %	100.00	100.00	100.00	100.00	99.70	94.47	36.72	11.81	9.02	5.06	3.08	1.82	1.49	.37

MATERIAL LESS THAN 63 MICRONS: 11.4090 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.18	2.83	2.47	1.77	1.34	1.18	.91
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 1.928	SI = 1.57		SKI = .438		KG = 1.537	

NORSK HYDRO WELL 30/7-2 1797.0 M  
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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.2666	2.2247	21.9339	59.3434	8.8934	2.3216	2.3566	2.1651	1.3493	1.6155
WEIGHT %	0	0	0	0	.26	2.16	21.28	57.58	8.62	2.26	2.29	2.19	1.31	1.57
CUMULATIVE %	100.00	100.00	100.00	100.00	99.74	97.58	76.30	18.73	10.10	7.84	5.55	3.45	2.14	.57

MATERIAL LESS THAN 63 MICRONS: 10.4090 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
6.21	3.32	2.89	2.46	2.02	1.64	1.12
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.477	SI = 1.190		SKI = .249		KG = 2.369	

NORSK HYDRO WELL 3077-2 1798.0 M

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GRAIN SIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.1185	1.8225	24.3757	36.5453	7.7247	9.1061	11.4268	8.5753	7.5740	3.2150	4.1423
WEIGHT %	0	0	0	0	.10	1.59	21.25	31.85	6.73	7.94	9.95	7.41	6.54	2.79	3.32
CUMULATIVE %	100.00	100.00	100.00	100.00	59.90	98.31	77.06	45.21	34.47	30.54	20.58	13.16	6.62	3.82	

MATERIAL LESS THAN 63 MICRONS: 44.1496 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
2.58	5.62	5.56	2.35	2.06	1.67	1.16
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 3.73	ST = 2.361		SKI = .534		KG = .871	

NORSK HYDRO WELL 3077-2 1799.5 M

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GRAIN SIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0420	1.8668	39.9553	70.4120	10.1729	0	0	0	0	0
WEIGHT %	0	0	0	0	.03	1.52	32.63	57.50	8.31	0	0	0	0	0
CUMULATIVE %	100.00	100.00	100.00	100.00	59.97	98.44	65.81	8.31	0	0	0	0	0	0

MATERIAL LESS THAN 63 MICRONS: 5.1793 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
3.40	2.87	2.71	2.27	1.72	1.44	1.11
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.195	ST = .713		SKI = -0.095		KG = .948	

NORSK HYDRO WELL 3077-2 1802.5 M

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GRAIN SIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002	
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
WEIGHT, GRAM	0	0	0	0	.0185	.1254	.5941	13.3609	36.5965	62.3448	10.3611	6.2039	3.9930	3.3399	2.777
WEIGHT %	0	0	0	0	.01	.09	.43	9.58	26.20	44.65	7.42	4.51	2.86	2.39	1.86
CUMULATIVE %	100.00	100.00	100.00	100.00	59.99	99.90	99.47	89.90	63.69	19.04	11.62	7.11	4.25	1.86	

MATERIAL LESS THAN 63 MICRONS: 38.9304 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
7.74	5.41	4.87	4.31	3.57	3.23	2.47
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 4.374	ST = 1.345		SKI = .156		KG = 1.654	



NORSK HYDRO WELL 30/7-2 1805.0 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0607	.2331	1.6443	55.5739	28.4545	8.2960	9.9257	5.4729	3.0743	2.4378
WEIGHT %	0	0	0	0	.09	.19	1.37	46.44	23.77	6.93	8.34	4.54	2.57	2.28
CUMULATIVE %	100.00	100.00	100.00	100.00	99.98	99.75	98.38	51.94	28.17	21.24	12.99	8.35	5.79	3.54

MATERIAL LESS THAN 63 MICRONS: 33.7237 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
3.35	5.63	4.46	3.88	2.50	2.31	2.07
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 3.673	SI = 1.781		SKI = .607		KG = 1.317	

NORSK HYDRO WELL 30/7-2 1805.0 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0294	.5255	21.5995	91.8491	6.7.20	.3330	2.4473	2.1071	1.5194	1.4429
WEIGHT %	0	0	0	0	.02	.40	16.66	70.60	5.15	.26	1.92	1.68	1.24	1.11
CUMULATIVE %	100.00	100.00	100.00	100.00	99.98	99.57	82.98	12.38	7.23	6.97	5.05	3.37	2.13	1.02

MATERIAL LESS THAN 63 MICRONS: 9.4066 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.13	2.95	2.82	2.47	2.11	1.94	1.28
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.481	SI = .973		SKI = .226		KG = 2.752	

NORSK HYDRO WELL 30/7-2 1809.5 M

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GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0255	.7741	17.2697	42.2246	7.1171	4.6745	4.2934	.9421	.5367	.4659
WEIGHT %	0	0	0	0	.03	.98	21.94	53.44	9.74	5.94	5.45	1.25	.68	.59
CUMULATIVE %	100.00	100.00	100.00	100.00	99.97	98.99	77.05	23.41	14.37	9.43	2.98	1.73	1.05	.46

MATERIAL LESS THAN 63 MICRONS: 11.3132 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.63	3.22	2.97	2.5	2.04	1.68	1.18
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.665	SI = 1.218		SKI = .319		KG = 1.955	

NORSK HYDRO WELL 30/7-2 1812.5 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0122	1.1439	11.2920	23.6707	12.9406	36.2545	20.4011	26.3039	4.4202	7.0054
WEIGHT %	0	0	0	0	.01	.75	7.36	15.43	8.43	23.63	13.29	17.20	2.88	4.60
CUMULATIVE %	100.00	100.00	100.00	100.00	99.99	99.25	91.89	76.46	68.02	44.40	31.10	13.90	11.02	6.42

MATERIAL LESS THAN 63 MICRONS: 104.3857 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
8.94	6.88	6.35	4.74	3.17	2.51	1.58
MEAN	SORTING		SKEWNESS		KURTOSIS	
ST = 4.717	ST = 2.217		SKI = .052		KG = .949	

NORSK HYDRO WELL 30/7-2 1814.0 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.2800	.0886	.1522	.2947	.7486	3.3978	5.7686	4.7184	3.8303	4.0074
WEIGHT %	0	0	0	0	1.04	.33	.56	1.16	2.78	12.61	21.40	17.51	14.21	14.87
CUMULATIVE %	100.00	100.00	100.00	100.00	98.96	98.63	98.07	97.01	94.23	81.63	60.22	42.72	28.51	13.64

MATERIAL LESS THAN 63 MICRONS: 25.2988 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

NORSK HYDRO WELL 30/7-2 1814.5 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.3845	.0975	4.9543	64.3195	29.7711	5.5872	13.3004	12.0485	9.9317	8.4013
WEIGHT %	0	0	0	0	.24	.06	3.14	46.75	18.86	3.54	8.43	8.14	6.29	5.32
CUMULATIVE %	100.00	100.00	100.00	100.00	99.76	99.69	96.56	55.80	36.94	33.40	24.97	16.83	10.54	5.22

MATERIAL LESS THAN 63 MICRONS: 58.3061 G

THE MATERIAL LESS THAN 2 MICRONS REPRESENTS MORE THAN 5 % OF THE ANALYSIS. THIS CAN NOT BE DETERMINED

NORSK HYDRO WELL 307-2 1815.0 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0121	.7743	24.0129	50.2400	26.2287	6.2637	5.3283	2.1563	2.241	.0161
WEIGHT %	0	0	0	0	.01	.60	18.62	46.71	20.34	4.70	4.13	1.67	1.71	.71
CUMULATIVE %	100.00	100.00	100.00	100.00	99.99	99.39	80.77	34.07	13.73	9.03	4.90	3.23	1.52	.81

MATERIAL LESS THAN 63 MICRONS: 17.7113 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.98	3.89	3.45	2.64	2.12	1.93	1.24
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.791	ST = 1.234		SKI = .296		KG = 1.469	

NORSK HYDRO WELL 307-2 1816.0 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.0218	.9125	20.3920	40.9373	11.7710	14.8586	6.4986	6.8425	5.2474	3.5250
WEIGHT %	0	0	0	0	.02	.79	17.61	35.35	10.16	12.83	5.60	5.92	4.54	3.10
CUMULATIVE %	100.00	100.00	100.00	100.00	99.98	99.19	81.58	46.24	36.07	23.24	17.64	11.72	7.18	4.09

MATERIAL LESS THAN 63 MICRONS: 41.7730 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
2.70	6.28	4.86	2.89	2.19	1.86	1.24
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 3.678	ST = 2.235		SKI = .545		KG = 1.143	

NORSK HYDRO WELL 307-2 1820.5 M

GRAINSIZE MM	16.000	8.000	4.000	2.000	1.000	.500	.250	.125	.063	.031	.016	.008	.004	.002
PHI VALUES	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
WEIGHT, GRAM	0	0	0	0	.2768	3.3993	37.9020	50.5919	9.9220	3.3331	5.0262	1.7195	.7472	2.2485
WEIGHT %	0	0	0	0	.24	2.92	32.51	43.29	8.52	2.86	4.31	1.47	.66	1.93
CUMULATIVE %	100.00	100.00	100.00	100.00	99.76	96.85	64.34	20.94	12.42	9.56	5.25	3.78	3.12	1.19

MATERIAL LESS THAN 63 MICRONS: 14.4433 G

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
5.6	3.58	2.91	2.37	1.67	1.40	1.00
MEAN	SORTING		SKEWNESS		KURTOSIS	
MZ = 2.435	ST = 1.314		SKI = .317		KG = 1.659	