

Denne rapport tilhører



L&U DOK. SENTER

L. NR. 20088390008

KODE Well 31/2-3 nr. 7

Returneres etter bruk

UND — ARKIVET

Nr.:

98. sider

LOCATION

SAMPLE No.

TYPE OF SAMPLE

Sand

SIEVE ANALYSIS

WELL

DEPTH

DATE

SIEVE	MESH OPENING	FRACTIONS RETAINED ON SIEVE			
		CROSS	BASIN	NET WT	INDIV% CUM%
	mm			grams	V
2				0.0826	0.08 100
1				2.5155	2.52 99.92
0.5				21.4313	21.46 97.40
0.25				43.5229	43.58 75.94
0.125				11.5913	11.61 32.36
0.063				5.6202	5.63 20.75
<63µ				15.1044	15.12 15.12
RECEIVER				99.8582	100 0
Fraction passed through 40µ sieve during wet sieving process (100-% sand fraction)					
CONTROL TOTAL					

ORIGINAL TOTAL WEIGHT

(crude sample)

GROSS
BASIN
NET 100.00 g = 100% sands

INSOLUBLES

(sample after chemical treatment)

GROSS
FILTER
NET = 100% insolubles

SOLUBLES

Percentage of total sample dissolved after H₂O and HCl treatment

SAND FRACTIONS (7 coarsest 6.3)

(rounded on 0.5, based after wet sieving)

GROSS
FILTER
NET

CALCULATING FACTOR

100 / Net insolubles =

SAND PARAMETERS

d ₅	
d ₁₆	
d ₅₀ med. diam.	
d ₈₄	
d ₉₅	
d ₁₀₀ = d ₉₅ + (d ₈₄ - d ₉₅) / 6.3	

4 27 20 1.4 1.2 1.1 1.0

ratio poor	very poor	poor	moderate	fair	good	excellent
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UND — ARKIVET

Nr.:

98 sider

LOCATION		SIEVE ANALYSIS				WELL 31/2-3								
SAMPLE No.						DEPTH 14.35 m								
TYPE OF SAMPLE Sand						DATE 22/5-80								
SIZE CLASS	SIEVE MESH OPENING	FRACTIONS RETAINED ON SIEVE					ORIGINAL TOTAL WEIGHT (dried sample)							
		GROSS	BASIN	NET WT	INDIV %	CUM %								
VERY COARSE SAND	mm			grams	V		GROSS							
								BASIN						
								NET 100.00 g = 100% coarse						
	2			0.0826	0.08	100	INSOLUBLES (sample after chemical treatment)							
	1			2.5155	2.52	99.92		GROSS :						
							FILTER							
							NET : = 100% insoluble							
	0.5			21.4313	21.46	97.40	SOLUBLES Percentage of total sample dissolved after H ₂ O and HCl treatment <input type="checkbox"/>							
							SAND FRACTION (4 coarse silts) (retained on 45 µm sieve after wet sieving)							
								GROSS						
	0.25			43.5229	43.58	75.94	FILTER							
							NET <input type="checkbox"/> % of insoluble							
							CALCULATING FACTOR $CF = \frac{100}{\text{net insoluble}} =$ <input type="text"/>							
								SAND PARAMETERS						
	0.125			11.5913	11.61	32.36	d ₅							
							d ₁₆							
							d ₅₀ median diam.							
							d ₈₄							
	0.063			5.6202	5.63	20.75	d ₉₅							
							d ₉₉ = d ₉₅ + d ₉₉ / 6.5							
	<63µ			15.1044	15.12	15.12	4 27 20 1.4 1.2 1.1 1.0							
	RECEIVER			99.882	100	0	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>clay part</td><td>very fine</td><td>fine</td><td>moderate</td><td>coarse</td><td>very coarse</td><td>extra coarse</td></tr> </table>	clay part	very fine	fine	moderate	coarse	very coarse	extra coarse
clay part	very fine	fine	moderate	coarse	very coarse	extra coarse								
	Fraction passed through 45µ sieve during wet sieving process (100-95 sand fraction)													
CONTROL TOTAL														
REMARKS														

LOCATION		WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1437 ~
TYPE OF SAMPLE	Sand	DATE 22/5 - 80

SIEVE ANALYSIS

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING	GROSS	BASIN	NET WT	INDIV%	CUM%
VERY COARSE SAND		mm			grams		
		1			0.1128	0.11	100
COARSE SAND		0.5			4.1690	4.17	99.89
		0.25			74.9290	75.01	95.72
MEDIUM SAND		0.125					
		0.063			2.5940	2.60	9.10
FINE SAND		<0.063			6.4904	6.50	6.50
		RECEIVER			99.8906	100	0
CLAY + SILT	Fraction passed through #200 sieve during wet sieving process (100-% sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS _____
 BASIN _____
 NET 100.00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS : _____
 FILTER _____
 NET : _____ = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #425 sieve after wet sieving)

GROSS _____
 FILTER _____
 NET _____ % of insoluble

CALCULATING FACTOR

$CF = \frac{100}{\text{net insoluble}} = \text{_____}$

SAND PARAMETERS

d₅ _____
 d₁₀ _____
 d₅₀ = median diam. _____
 d₆₀ _____
 d₇₅ _____
 $C_u = \frac{d_{60} - d_{10}}{d_{10}}$ _____
 $C_c = \frac{d_{30}^2 - d_{10}d_{60}}{d_{10}(d_{60} - d_{10})}$ _____

4 27 2.0 1.4 1.2 1.1 1.0

clay + silt	very fine sand	fine sand	medium sand	coarse sand	very coarse sand
_____	_____	_____	_____	_____	_____

REMARKS

LOCATION: SIEVE ANALYSIS WELL 31/2-3
 SAMPLE No. DEPTH 1439 m
 TYPE OF SAMPLE Sand DATE 22/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		2			0.0522	0.05	100
		1			0.5599	0.56	99.95
COARSE SAND		0.5			5.2415	5.25	99.39
MEDIUM SAND		0.25			33.1051	33.14	94.14
		0.125			26.8147	26.81	61.00
FINE SAND		0.063			14.3225	14.34	34.16
		K63µ			19.7963	19.82	19.82
CLAY + SILT	RECOVER				19.822	100	0
	Fraction passed through 49µ sieve during wet-sieving process (100-96 sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
 ("Gross sample")
 GROSS: _____
 BASIN: _____
 NET: 100.00 g = 100% sample

INSOLUBLES
 (sample after chemical treatment)
 GROSS: _____
 FILTER: _____
 NET: _____ = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O₂ and HCl treatment:

SAND FRACTION (+ coarse silt)
 (retained on 49µ sieve after wet-sieving)
 GROSS: _____
 FILTER: _____
 NET: _____ % of insoluble

CALCULATING FACTOR

$$\% = \frac{100}{\text{Net Insoluble}} = \text{_____}$$

SAND PARAMETERS

d ₅	
d ₁₆	
d ₅₀ (med on diam)	
d ₆₄	
d ₉₅	
$C_u = \frac{d_{95} - d_{50}}{d_{50}}$	
$C_c = \frac{d_{60} - d_{30}}{d_{50} - d_{30}}$	

	4	27	60	14	12	11	10
Category	Very Fine	Coarse	Medium	Fine	Coarse	Fine	Fine

REMARKS

LOCATION		WELL 31/2-2
SAMPLE No.		DEPTH 1441 m
TYPE OF SAMPLE	Sand	DATE 23/5-80

SIEVE ANALYSIS

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		1			1.2410	1.24	100
		0.5			11.4644	11.47	98.76
COARSE SAND		0.25			33.2393	33.26	87.29
MEDIUM SAND		0.125			19.5245	19.54	54.03
FINE SAND		0.063			12.9151	12.92	34.49
VERY FINE SAND		<63μ			21.5526	21.57	21.57
CLAY + SILT	RECEIVER				99.9369	100	0
	Fraction passed through 40μ sieve during wet-sieving process (100% fines & fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Gross sample)

GROSS
BASIN
NET 100.00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS
FILTER
NET = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 40μ sieve after wet-sieving)

GROSS
FILTER
NET

% of insoluble

CALCULATING FACTOR

$\frac{100}{\% \text{ insoluble}} =$

SAND PARAMETERS

d_5
 d_{10}
 d_{20} median diam.
 d_{30}
 d_{40}
 d_{60} d_{70} d_{80} d_{90}

4 27 20 1.4 1.2 1.1 1.0

extra fine	very fine	fine	medium	coarse	very coarse	extra coarse
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REMARKS

LOCATION:
 SAMPLE No.:
 TYPE OF SAMPLE: Sand
 SIEVE ANALYSIS
 WELL: 31 / 2 - 3
 DEPTH: 1443 ~
 DATE: 23 / 5 - 80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE			
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV% CUM%
VERY COARSE SAND	2				9.7640	13.96
	1				17.5334	25.06
COARSE SAND		0.5			13.5082	19.31
MEDIUM SAND		0.25			11.4832	16.41
FINE SAND		0.125			5.0993	7.29
		0.063			4.0385	5.77
VERY FINE SAND		< 63μ			8.5323	12.20
		RECEIVER			19.9595	100
CLAY + SILT	Fraction passed through #20 sieve during wet sieving process (100-φ sand fraction)					0

ORIGINAL TOTAL WEIGHT
 (Crude sample)
 GROSS:
 BASIN:
 NET: 70.00 g = 100% solids

INSOLUBLES
 (sample after chemical treatment)
 GROSS:
 FILTER:
 NET:
 = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O and HCl treatment:

SAND FRACTION (+ coarse silt)
 (retained on #42 sieve after wet sieving)
 GROSS:
 FILTER:
 NET:
 % of solids

CALCULATING FACTOR

$$CF = \frac{100}{\text{net insoluble}} = \text{[]}$$

SAND PARAMETERS

d ₁₀	
d ₁₅	
d ₃₀ = med on diam.	
d ₄₀	
d ₅₀	
d ₆₀	
d ₇₅	

	4	27	20	14	12	11	10
clay (sil)							
very fine							
fine							
medium							
coarse							
very coarse							
clay (sil)							

CONTROL TOTAL

REMARKS

LOCATION		WELL 31/2-3
SAMPLE No.		DEPTH 1444.7
TYPE OF SAMPLE	Sand	DATE 23/5-80

SIEVE ANALYSIS

SIZE CLASS	SIEVE MESH OPENING	FRACTIONS RETAINED ON SIEVE				
		GROSS	BASIN	NET WT	INDIV%	CUM%
VERY COARSE SAND	mm			grams		
	2			0.1307	0.13	100
COARSE SAND	1			0.8765	0.88	99.87
	0.5			1.0129	1.01	98.99
MEDIUM SAND						
	0.25			5.7843	5.79	97.98
FINE SAND						
	0.125			48.3226	48.35	92.19
VERY FINE SAND						
	0.063			30.1630	30.68	43.84
CLAY + SILT	<63µ			13.1497	13.16	13.16
	RECEIVER			99.9397	100	0
Fraction passed through #20 sieve during wet sieving process (100% sand fraction)						
CONTROL TOTAL						

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS _____
 BASIN _____
 NET = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS: _____
 FILTER _____
 NET: = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #20 sieve after wet sieving)

GROSS _____
 FILTER _____
 NET % of insoluble

CALCULATING FACTOR
 $CF = \frac{100}{\% \text{ insoluble}} =$

SAND PARAMETERS

d₁₅ _____
 d₃₀ _____
 d₅₀ = median diam. _____
 d₆₀ _____
 d₇₅ _____

$C_u = \frac{d_{60} - d_{10}}{d_{10}}$

4 27 20 14 12 11 10

extra fine	very fine	fine	medium	coarse	very coarse	extra coarse
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31/2-3
SAMPLE No.		DEPTH 1447.3
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING	CROSS	BASIN	NET WT	INDIV%	CUM%
VERY COARSE SAND		mm			grams		
		2			2.3124	2.31	100
		1			9.4958	9.50	97.69
COARSE SAND		0.5			27.8363	27.84	88.19
MEDIUM SAND		0.25			25.4107	25.45	60.35
FINE SAND		0.125			7.4294	7.43	34.90
		0.063			6.9259	6.93	27.47
VERY FINE SAND		<63µ			20.5300	20.54	20.54
		RECEIVER			99.9705	100	0
CLAY + SILT	Fraction passed through #200 sieve during wet sieving process (100-µ sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Oven dried sample)

CROSS
BASIN
NET 100.00 g = 100% sands

INSOLUBLES
(Sample after chemical treatment)

CROSS
FILTER
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (4 coarse size)
(re based on 49.9705g after wet sieving)

CROSS
FILTER
NET % of insoluble

CALCULATING FACTOR
CF = $\frac{100}{\text{NET INSOLUBLE}}$ =

SAND PARAMETERS

d₁₅

d₃₀

d₅₀ = med on class

d₆₀

d₇₅

$d_{15} - d_{75} = \frac{d_{60} - d_{15}}{6.5}$

4 27 20 14 12 11 10

extra fine	very fine	fine	medium	coarse	very coarse	extra coarse
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REMARKS

LOCATION SAMPLE No. TYPE OF SAMPLE Sand	SIEVE ANALYSIS	WELL 31/2 - 3 DEPTH 1450 m DATE 23/5 - 80
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SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	CROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		2			0.679	0.62	100
		1			3.377	3.37	99.38
COARSE SAND		0.5			23.655	23.66	96.01
MEDIUM SAND		0.25			51.554	51.62	72.35
		0.125			7.846	7.86	20.73
VERY FINE SAND		0.063			1.790	1.78	12.87
		<63µ			11.071	11.09	11.09
CLAY + SILT	RECOVER				99.8726	100	0
	Fraction passed through #425 sieve during wet sieving process (100-% sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Crude sample)

GROSS
 BASIN
 NET 100.00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS
 FILTER
 NET : = 100% insoluble

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #425 and after wet sieving)

GROSS
 FILTER
 NET % of wet solids

CALCULATING FACTOR

$CF = \frac{100}{\% \text{ insoluble}}$ =

SAND PARAMETERS

d_5
 d_{10}
 d_{20} (median diam.)
 d_{40}
 d_{60}
 d_{85}
 $C_u = \frac{d_{60} - d_{10}}{d_{10}}$
 $C_c = \frac{d_{30}^2 - d_{10}d_{85}}{d_{10}^2 - d_{10}d_{85}}$

	4	27	20	1.4	1.2	1.1	1.0
Very coarse sand							
Coarse sand							
Medium sand							
Fine sand							
Very fine sand							
Coarse silt							

REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1452.5 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		2			0.6026	0.60	100
		1			2.8843	2.89	99.40
COARSE SAND		0.5			19.9857	20.00	96.51
MEDIUM SAND		0.25			30.5943	30.62	76.51
FINE SAND		0.125			11.5242	11.54	45.89
		0.063			11.0041	11.01	34.35
VERY FINE SAND		<63μ			23.3131	23.31	23.24
		RECOVER			99.9083	100	0
CLAY + SILT	Fraction passed through #20 sieve during wet sieving process (100-99.9083 sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Oven dried sample)

GROSS _____
 BASIN _____
 NET 100.00 g = 100% sand

INSOLUBLES
(sample after chemical treatment)

GROSS _____
 FILTER _____
 NET _____ = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(Retained on #20 sieve and after wet sieving)

GROSS _____
 FILTER _____
 NET _____ % of insoluble

CALCULATING FACTOR

$$CF = \frac{100}{\text{net insoluble}} = \text{_____}$$

SAND PARAMETERS

d ₅	<input type="text"/>
d ₁₀	<input type="text"/>
d ₂₅ median diam.	<input type="text"/>
d ₅₀	<input type="text"/>
d ₇₅	<input type="text"/>
d ₉₀	<input type="text"/>
$\frac{d_{60} - d_{10}}{d_{60} - d_{10}} \cdot \frac{d_{25} - d_{10}}{d_{25} - d_{10}}$	<input type="text"/>

4 37 20 14 12 11 10

coarse sand	very fine sand	fine sand	medium sand	very coarse sand	very fine silt	fine silt
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31/2-3
SAMPLE No.		DEPTH 1457.5 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	WASH	NET WT (grams)	INDV% (Cum %)	CUM%
VERY COARSE SAND	2				0.7412	0.74	100
	1				2.5235	2.52	99.26
COARSE SAND	0.5				26.1001	26.11	96.74
	0.25				38.8754	38.90	70.63
FINE SAND	0.125				11.9801	11.99	31.73
	0.063				5.2976	5.30	19.74
VERY FINE SAND	0.03				14.4301	14.44	14.44
	RECEIVER				99.9483	100	0
CLAY + SILT	Fraction passed through 60µ sieve during wet sieving process (100-% sand fraction)						

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS _____
 BAGG _____
 NET 100.00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS _____
 FILTER _____
 NET _____ = 100% insoluble

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 45µ sieve after wet sieving)

GROSS _____
 FILTER _____
 NET _____ % of insoluble

CALCULATING FACTOR

$\frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d₅ _____
 d₁₀ _____
 d₅₀ median diam. _____
 d₆₀ _____
 d₉₅ _____

$\frac{d_{60} - d_{10}}{d_{50}} = \frac{d_{95} - d_{5}}{d_{50}}$

4 27 20 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	extra good
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CONTROL TOTAL

REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1460 m
TYPE OF SAMPLE Sand		DATE 23/5 - 80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV% (CUM%)	CUM%
VERY COARSE SAND							
		1			0.7445	0.75	100
COARSE SAND							
		0.5			17.5622	17.52	99.25
MEDIUM SAND							
		0.25			56.0015	56.05	81.67
FINE SAND							
		0.125			14.7573	14.77	25.62
VERY FINE SAND							
		0.063			2.7890	2.79	10.85
CLAY + SILT		<63µ			8.0486	8.08	8.08
		RECEIVER			99.9031	100	0
FRACTION PASSED THROUGH 40µL SIEVE DURING WATERING PROCESS (100% LOSS FRACTION)							
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Cried sample)

GROSS
BASIN
NET 100.00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS
FILTER
NET = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 40µL sieve after water-cleaning)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR
 $CF = \frac{100}{\% \text{ insoluble}} = \text{[]}$

SAND PARAMETERS

d_5

d_{10}

d_{30} median diam.

d_{60}

d_{95}

$C_u = \frac{d_{60} - d_{10}}{d_{10}}$

$C_c = \frac{d_{30}^2 - d_{10}d_{60}}{d_{10}^2}$

4 27 2.0 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	excellent
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REMARKS

LOCATION		SIEVE ANALYSIS
SAMPLE No.		WELL 31/2-3
TYPE OF SAMPLE	Sand	DEPTH 1514.5m
		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (g)	INDIV% (g/100g)	CUM% (g/100g)
VERY COARSE SAND							
		1			0.8410	0.84	100
COARSE SAND							
		0.5			4.4365	4.44	99.16
MEDIUM SAND							
		0.25			7.5623	7.57	94.72
FINE SAND							
		0.125			13.1675	13.18	87.15
VERY FINE SAND							
		0.063			34.5375	34.57	73.97
CLAY + SILT		<63μ			39.3675	39.40	39.40
		RECEIVER			99.9123	100	0
Fraction passed through #60 sieve during wet sieving process (100% sand fraction)							
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Cried sample)

GROSS _____
 BASIN _____
 NET 100.00 g = 100% sand

INSOLUBLES
(sample after chemical treatment)

GROSS _____
 FILTER _____
 NET _____ g = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #30 sieve and after wet sieving)

GROSS _____
 FILTER _____
 NET _____ % of insoluble

CALCULATING FACTOR

$CF = \frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d₅
 d₁₆
 d₅₀ median diam.
 G₆₃
 d₉₅
 $C_u = \frac{d_{95} - d_{16}}{d_{16}}$
 $C_c = \frac{d_{95} - d_{16}}{d_{50} - d_{16}}$

	4	27	20	1.4	1.2	1.1	1.0
extra poor							
very poor							
poor							
moderate							
good							
good sand							
excellent							

REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1516 m
TYPE OF SAMPLE Sand		DATE 23 / 5 - 80

SIZE CLASS	SIZE MESH OPENING	FRACTIONS RETAINED ON SIEVE			
		CROSS	BASIN	NET WT	INDIV% CUM%
VERY COARSE SAND	2			0.1680	0.17 100
	1			0.1811	0.18 99.83
COARSE SAND	0.5			0.5315	0.53 99.65
MEDIUM SAND	0.25			4.4280	4.43 99.12
	0.125			16.5487	16.55 94.69
FINE SAND	0.063			46.4257	46.43 78.14
	<63μ			31.7108	31.71 31.71
CLAY + SILT	RECEIVER			99.9938	100 0
	Fraction passed through 40μ sieve during wet sieving process (100-% sand fraction)				
CONTROL TOTAL					

ORIGINAL TOTAL WEIGHT
(Cried sample)

GROSS
BASIN
NET 100.00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS
FILTER
NET = 100% insoluble

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(Retained on 40μ sieve after wet sieving)

GROSS
FILTER
NET % of include

CALCULATING FACTOR

$\% = \frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d₅

d₁₆

d₅₀ = median diam.

d₈₄

d₉₅

$\frac{d_{84} - d_{16}}{d_{50}} = \frac{d_{84} - d_{16}}{d_{50}}$

	4	27	2.0	1.4	1.2	1.1	1.0
extra poor							
very poor							
poor							
moderate							
good							
very good							
excellent							

REMARKS

LOCATION:
 SAMPLE No.
 TYPE OF SAMPLE: Sand
 SIEVE ANALYSIS
 WELL: 31/2-3
 DEPTH: 1518 m
 DATE: 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	RET WT (grams)	NON% (dry)	CUM% (dry)
VERY COARSE SAND		1			0,0185	0,02	100
COARSE SAND		0,5			0,1243	0,12	99,98
MEDIUM SAND		0,25			0,7638	0,77	99,86
FINE SAND		0,125			17,1047	17,12	99,09
VERY FINE SAND		0,063			50,3690	50,42	81,97
CLAY + SILT		< 63μ			31,5201	31,55	31,55
		RECEIVER			99,9054	100	0
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
 (dry sample)
 GROSS:
 BASIN:
 NET: 100,00 g = 100% sample

INSOLUBLES
 (sample after chemical treatment)
 GROSS:
 FILTER:
 NET: = 100% insoluble

SOLUBLES
 Percentage of total sample dissolved after H₂O and HCl treatment

SAND FRACTION (+ coarse silt)
 (retained on #20 sieve after wet sieving)
 GROSS:
 FILTER:
 NET: % of insoluble

CALCULATING FACTOR

$$CF = \frac{100}{\% \text{ insoluble}}$$

SAND PARAMETERS

d_5
 d_{10}
 d_{30} median diam.
 d_{40}
 d_{60}
 d_{85}
 d_{95}

$$C_u = \frac{d_{85} - d_{15}}{d_{15}}$$

$$C_c = \frac{d_{85} - d_{15} - d_{50} - d_{15}}{d_{15}}$$

	4	27	20	14	12	11	10
extra poor							
very poor							
poor							
moderate							
good							
very good							
extra good							

REMARKS

LOCATION	WELL 31 / 2 - 3
SAMPLE No.	DEPTH 1519 m
TYPE OF SAMPLE Sand	DATE 23 / 5 - 80

SIEVE ANALYSIS

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	RET WT (grams)	INDIV %	CUM %
VERY COARSE SAND							
		1			0.0373	0.04	100
COARSE SAND							
		0.5			0.1213	0.12	99.96
MEDIUM SAND							
		0.25			0.5550	0.56	99.84
FINE SAND							
		0.125			10.9118	10.93	99.28
VERY FINE SAND							
		0.063			50.0279	50.10	88.35
CLAY + SILT		< 63 μ			38.1916	38.25	38.25
		RECEIVER			99.8449	100	0
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT

(dried sample)
 GROSS
 BASIN
 NET 100.00 g = 100% solids

INSOLUBLES

(sample after chemical treatment)
 GROSS
 FILTER
 NET = 100% insoluble

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)

(retained on #60 sieve and after wet sieving)
 GROSS
 FILTER
 NET % of insoluble

CALCULATING FACTOR

$CF = \frac{100}{\text{net insoluble}} = \text{[]}$

SAND PARAMETERS

d ₅	<input type="text"/>
d ₁₀	<input type="text"/>
d ₅₀ median diam.	<input type="text"/>
d ₆₀	<input type="text"/>
d ₉₅	<input type="text"/>
$C_u = \frac{d_{60} - d_{10}}{d_{10}}$	<input type="text"/>
$C_c = \frac{d_{95} - d_{50}}{d_{50} - d_{10}}$	<input type="text"/>

4 27 20 1.4 1.2 1.1 10

extra fine	very fine	fine	medium	coarse	very coarse	extra coarse
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 15 21
TYPE OF SAMPLE Sand		DATE 23 / 5 - 80

SIZE CLASS	SIEVE MESH/OPENING	FRACTIONS RETAINED ON SIEVE			
		GROSS	BASIN	NET WT	INDIV% / CUM%
	mm			grams	
VERY COARSE SAND	2			0.3859	0.39 100
	1			0.0931	0.09 99.61
COARSE SAND	0.5			0.0684	0.07 99.52
MEDIUM SAND	0.25			0.3591	0.36 99.45
FINE SAND	0.125			15.1258	15.13 99.09
VERY FINE SAND	0.063			51.4810	51.51 83.96
CLAY + SILT	< 63μ			32.4318	32.45 32.45
	RECEIVER			99.9451	100 0
CONTROL TOTAL					

ORIGINAL TOTAL WEIGHT
(Gross sample)

GROSS
BASIN
NET 100.00 Σ = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS
FILTER
NET = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 4.75mm sieve after wet sieving)

GROSS
FILTER
NET

 % of insoluble

CALCULATING FACTOR

$\frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d_5
 d_{16}
 d_{50} = median diam.
 d_{84}
 d_{95}

$C_u = \frac{d_{84} - d_{16}}{d_{50}}$

$C_c = \frac{d_{84} - d_{16}}{d_{50}}$

	4	27	20	1.4	1.2	1.1	1.0
extra poor							
very poor							
poor							
moderate							
good							
good fair							
excellent							

REMARKS

Fraction passed through #20 sieve during wet sieving process (100% sand fraction)

LOCATION	SIEVE ANALYSIS	WELL 31/2-3
SAMPLE No.		DEPTH 1523 ~
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	RET WT (grams)	INDIV %	CUM %
VERY COARSE SAND							
COARSE SAND							
		0.5			0.0445	0.04	100
MEDIUM SAND							
		0.25			0.6541	0.65	99.96
FINE SAND							
VERY FINE SAND							
		0.125			23.7297	23.75	99.31
CLAY + SILT							
		0.063			46.3960	46.43	75.56
		<63 μ			29.1077	29.13	29.13
		RECEIVER			99.9320	100	0
		Fraction passed through #20 sieve during wet sieving process (100-% sand fraction)					
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS
BASIN
NET 100.00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS :
FILTER :
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O and HCl treatment

SAND FRACTION (± coarse s.s.)
(retained on #40 sieve after wet sieving)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR
CF = $\frac{100}{\text{NET INSOLUBLE}}$ =

SAND PARAMETERS

d₅
d₁₆
d₅₀ median diam.
d₈₄
d₉₅
C_u = $\frac{d_{84} - d_{16}}{d_{50}}$
C_g = $\frac{d_{84} - d_{16}}{d_{50}}$

4 27 20 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	extra good
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1526 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND							
COARSE SAND		0.5			0.0281	0.03	100
MEDIUM SAND		0.25			0.1875	0.19	99.97
FINE SAND		0.125			14.8597	14.88	99.78
VERY FINE SAND		0.063			49.4778	49.52	84.90
CLAY + SILT		<63µ			35.3189	35.38	35.38
		RECOVER			99.9120	100	0
		Fraction passed through 45µ sieve during wet sieving process (100-% sand fraction)					
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Cried sample)

GROSS
BASIN
NET 100.00 g = 100% sand

INSOLUBLES
(sample after chemical treatment)

GROSS :
FILTER :
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (± coarse silt)
(retained on 45µ sieve after wet sieving)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR
CF = $\frac{100}{\text{net insoluble}}$ =

SAND PARAMETERS

d₅
d₁₆
d₅₀ median diam.
d₈₄
d₉₅
 $C_u = \frac{d_{84} - d_{16}}{d_{50}}$
 $C_w = \frac{d_{95} - d_{5}}{d_{50}}$

4 27 2.0 1.4 1.2 1.1 1.0

ratio poor	very poor	poor	moderate	good	very good	excellent
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REMARKS

LOCATION SAMPLE No. TYPE OF SAMPLE Sand	SIEVE ANALYSIS	WELL 31/2-3 DEPTH 1529 m DATE 23/5-80
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SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV%	CUM%
VERY COARSE SAND							
		1			0,0485	0,05	100
COARSE SAND							
		0,5			0,0704	0,07	99,95
MEDIUM SAND							
		0,25			1,1221	1,12	99,88
FINE SAND							
		0,125			16,8221	16,83	98,76
VERY FINE SAND							
		0,063			46,8325	46,86	81,93
CLAY + SILT		<63µ			35,0520	35,07	35,07
		RECOVER			99,9476	100	0
Fraction passed through #20 sieve during wet sieving process (100-% sand fraction)							
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS
 BASIN
 NET 100,00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS :
 FILTER :
 NET : = 100% insoluble

SOLUBLES
 Percentages of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #20 sieve and after wet sieving)

GROSS
 FILTER
 NET % of insoluble

CALCULATING FACTOR

$f = \frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d₅
 d₁₆
 d₅₀ = median diam.
 d₈₄
 d₉₅
 $C_u = \frac{d_{84} - d_{16}}{d_{50}}$
 $C_c = \frac{d_{84} - d_{16}}{d_{50}}$

4 27 20 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	extra good
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1574 ~
TYPE OF SAMPLE Sand		DATE 23 / 5 - 80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE			
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV% CUM%
VERY COARSE SAND						
		1			0,6810	0,68 100
COARSE SAND						
		0,5			1,4799	1,48 99,32
MEDIUM SAND						
		0,25			4,2088	4,21 97,84
FINE SAND						
		0,125			25,3745	25,39 93,63
VERY FINE SAND						
		0,063			39,2497	39,27 68,24
CLAY + SILT		<63µ			28,9484	28,97 28,97
		RECEIVER			99,9418	100 0
Fraction passed through #20 sieve during wet sieving process (100-% sand fraction)						
CONTROL TOTAL						

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS
BASIN
NET 100,00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS :
FILTER :
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #20 sieve after wet sieving)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR

$f = \frac{100}{\text{net insoluble}} = \text{[]}$

SAND PARAMETERS

d₅
d₁₆
d₅₀ = median diam.
d₈₄
d₉₅

$C_u = \frac{d_{84} - d_{16}}{d_{50}}$

4 27 2.0 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	extra good
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1575.5 m
TYPE OF SAMPLE Sand		DATE 23 / 5 - 80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		2			0.4454	0.45	100
		1			6.4374	6.45	99.55
COARSE SAND		0.5			31.0330	31.07	93.10
MEDIUM SAND		0.25			10.6332	10.65	62.03
		0.125			10.5850	10.60	51.38
FINE SAND		0.063			13.2438	13.26	40.78
		<63μ			27.4853	27.52	27.52
CLAY + SILT		RECEIVER			99.8631	100	0
	Fraction passed through 49μ sieve during wet sieving process (100-% sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(dried sample)

GROSS
BASIN
NET 100.00 g = 100% sand

INSOLUBLES
(sample after chemical treatment)

GROSS
FILTER
NET = 100% Inclusive

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 49μ sieve after wet sieving)

GROSS
FILTER
NET % of inclusive

CALCULATING FACTOR

$CF = \frac{100}{\text{net insoluble}} = \text{input}$

SAND PARAMETERS

d₅

d₁₆

d₅₀ median diam.

d₈₄

d₉₅

$C_u = \frac{d_{84} - d_{16}}{d_{50}}$

$C_c = \frac{d_{84} - d_{16}}{d_{50} - d_{16}}$

4 27 2.0 1.4 1.2 1.1 1.0

extra fine	very fine	fine	medium	coarse	very coarse	extra coarse
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31 / 2 - 3
SAMPLE No.		DEPTH 1577 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE MESH OPENING		FRACTIONS RETAINED ON SIEVE				
		mm	GROSS	BASIN	NET WT grams	INDIV %	CUM %
VERY COARSE SAND							
		1			0,0822	0,08	100
COARSE SAND							
		0,5			0,3442	0,34	99,92
MEDIUM SAND							
		0,25			0,6661	0,67	99,58
FINE SAND							
		0,125			8,9586	8,97	98,91
VERY FINE SAND							
		0,063			47,6797	47,72	89,94
CLAY + SILT		<63µ			42,1905	42,22	42,22
		RECOVER			99,9213	100	0
FRACTION PASSED THROUGH 40µL SIEVE DURING WELLSIEVING PROCESS (100-% SAND FRACTION)							
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Cried sample)

GROSS
BASIN
NET 100,00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS :
FILTER
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 45µL sieve after wet sieving)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR

$\frac{100}{\text{net insoluble}} = \text{input}$

SAND PARAMETERS

d₅
d₁₀
d₅₀ = median diam.
d₆₄
d₉₅
 $C_u = \frac{d_{64} - d_{10}}{d_{10}}$
 $C_c = \frac{d_{95} - d_{50}}{d_{50} - d_{10}}$

	4	27	20	1.4	1.2	1.1	1.0
extra poor	very poor	poor	moderate	good	very good	excellent	

REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31/2-3
SAMPLE No.		DEPTH 1578.3 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV %	CUM %
VERY COARSE SAND		2			0.1431	0.14	100
		1			1.6032	1.61	99.86
		0.5			2.4316	2.43	98.25
COARSE SAND							
		0.25			1.5900	1.59	95.82
MEDIUM SAND							
		0.125			17.0233	17.05	94.23
FINE SAND							
		0.063			45.3623	45.42	77.18
VERY FINE SAND							
		<63μ			31.7212	31.76	31.76
CLAY + SILT	RECOVER				99.877	100	0
	Fraction passed through 40μ sieve during wet sieving process (100-% sand fraction)						
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Dried sample)

GROSS
BASIN
NET 100.00 g = 100% solids

INSOLUBLES
(sample after chemical treatment)

GROSS :
FILTER
NET : = 100% insoluble

SOLUBLES
Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on 40μ sieve after wet sieving)

GROSS
FILTER
NET % of insoluble

CALCULATING FACTOR

$CF = \frac{100}{\text{net insoluble}} =$

SAND PARAMETERS

d_5
 d_{10}
 d_{50} = median diam.
 d_{60}
 d_{95}
 $C_u = \frac{d_{60} - d_{10}}{d_{10}}$
 $C_c = \frac{d_{30} - d_{10}}{d_{60} - d_{10}}$

4 27 20 1.4 1.2 1.1 1.0

extra poor	very poor	poor	moderate	good	very good	excellent
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REMARKS

LOCATION	SIEVE ANALYSIS	WELL 31/2-3
SAMPLE No.		DEPTH 1581.3 m
TYPE OF SAMPLE Sand		DATE 23/5-80

SIZE CLASS	SIEVE		FRACTIONS RETAINED ON SIEVE				
	MESH	OPENING (mm)	GROSS	BASIN	NET WT (grams)	INDIV% (gross)	CUM%
VERY COARSE SAND							
COARSE SAND		0.5			0.0938	0.09	100
MEDIUM SAND		0.25			17.2183	17.24	99.91
FINE SAND		0.125			56.9303	56.98	82.67
VERY FINE SAND		0.063			14.5332	14.55	25.69
CLAY + SILT		<63μ			11.1336	11.14	11.14
		RECEIVER			99.9092	100	0
Fraction passed through #425 sieve during wet sieving process (100-% sand fraction)							
CONTROL TOTAL							

ORIGINAL TOTAL WEIGHT
(Gried sample)

GROSS _____
 BASIN _____
 NET 100.00 g = 100% sample

INSOLUBLES
(sample after chemical treatment)

GROSS : _____
 FILTER : _____
 NET : _____ = 100% insoluble

SOLUBLES

Percentage of total sample dissolved after H₂O₂ and HCl treatment

SAND FRACTION (+ coarse silt)
(retained on #425 sieve after wet sieving)

GROSS _____
 FILTER _____
 NET _____ % of insoluble

CALCULATING FACTOR

$f = \frac{100}{\text{net insoluble}}$ =

SAND PARAMETERS

d₅ _____
 d₁₆ _____
 d₅₀ = median diam. _____
 d₆₄ _____
 d₉₅ _____

$C_u = \frac{d_{60} - d_{10}}{d_{10}}$ $C_c = \frac{d_{30} - d_{10}}{d_{10} - d_{60}}$

	4	27	20	1.4	1.2	1.1	1.0
ratio poor							
very poor							
poor							
moderate							
good							
very good							
excellent							

REMARKS

