

**JONES CORE
HYDRAULIC CONDUCTIVITY**

SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
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DAKOTA FORMATION

*V 75.4		no flow		
*H 75.4	0.56	200		
H 75.7	2.2	790		
V 76.6	6.5	2300		
V 77	4.6	1700		
H 77	8.9	3200		

Ochre, wavy laminated and planar cross-laminated, fine-grained sandstone.

V 89.2	12	4400		
V 90.5	14	5100		
H 90.5	41	15000		
H 90.7	10	3800		
V 92	49	18000		
H 92	67	24000		

Light grey, planar cross-laminated, fine-grained sandstone.

V 94.2	7.1	2600		
H 94.3	6.9	2500		
H 94.8	6.3	2300		
V 95	4.2	1500		
V 95.3	1.3	460		
H 95.3	16	5900		

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H 95.5	13	4600		
V 96	4.5	1600		
V 96.7	3.9	1400		
H 96.7	2.4	870		
V 97.1	4.0	1500		
H 97.1	4.8	1700		
V 97.3	4.2	1500		
H 97.3	3.5	1300		
H 97.6	4.2	1500		
V 97.9	2.6	930		
V 98.5	2.2	790		
V 98.7	1.2	450		
H 98.7	3.5	1300		
V 99	3.1	1100		
H 99	1.2	450		
H 99.2	1.8	660		
V 99.4	2.8	1000		
V 99.6	0.50	180		
H 99.6	1.3	470		

Light grey, horizontally laminated and planar cross-laminated, very fine-grained sandstone.

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
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V 147	1.7	620		
H 147		no flow		

V 150		no flow		
H 150	2.9	1100		

Pinkish grey, planar cross-laminated, fine-grained sandstone.

H 172.9	51	18000		
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V 173.4	2.9	1100		
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V 173.5	4.1	1500		
H 173.5	29	10000		

Grey, horizontally laminated and ripple laminated, fine-grained sandstone.

V 175		no flow		
H 175		no flow		

V 175.9		no flow		
H 175.9		no flow		

Very light grey, horizontally laminated, silty, fine-grained sandstone.

V 187.3	19	7000		
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V 187.6	6.2	2200		
H 187.6	33	12000		

H 188.9	63	23000		
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H 189.1	41	15000		
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V 196.4	9.5	3400		
H 196.4	53	19000		

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V 197	22	8000		
V 197.5	19	6900		
H 197.5	50	18000		
V 199	11	3800		
H 199	26	9300		

Light grey, horizontally laminated and planar cross-laminated, fine-grained sandstone.

V 218	0.99	360		
H 218	1.5	550		
V 219	27	9800		
H 219	56	20000		
V 219.7	36	13000		
H 219.7	50	18000		
V 220.1	50	18000		
H 220.1	80	29000		
V 220.5	15	5400		
H 220.5	56	20000		

Light grey, horizontally laminated, fine-grained sandstone.

V 227.8	120	42000		
H 227.8	130	47000		
V 228	57	21000		
H 228	95	35000		

Light tan, planar cross-laminated, medium-grained sandstone.

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SAMPLE (V=vertical, H=horizontal) <i>610V & Fm</i>	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
V 296	9.2	3300		
Light grey, fine-grained sandstone.				
V 341	0.73	260		
H 341	0.62	220		
V 342.8	1.5	530		
H 342.8	4.3	1600		
V 342.9	0.26	94		
V 343	0.68	250		
H 343	2.5	920		
V 344	0.99	360		
H 344	6.3	2300		
V 345.3	3.1	1100		
H 345.3	6.5	2400		
V 348.2	1.0	370		
H 348.2	2.0	730		
V 348.7	2.3	840		
H 348.7	0.39	140		
V 349	1.4	520		
H 349	2.3	820		
V 349.7	0.55	200		
H 349.7	1.9	690		
V 350.6	1.8	640		
H 350.6	4.8	1700		

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
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V 351	1.9	690	
H 351		no flow	

Light tan, mainly ripple laminated, fine-grained sandstone.

V 375.5	3.5	1300	
H 375.5	41	15000	

Tan, planar cross-laminated, fine-grained sandstone.

V 383.6	7.4	2700	
H 384.3	1.7	610	
H 384.8	33	12000	
V 384.9	12	4200	
H 384.9	13	4600	
V 385	7.6	2800	
H 385	11	4000	

Light brown, planar cross-laminated, fine-grained sandstone.

V 387.5	38	14000	
H 388.3	14	5100	

Tan, planar cross-laminated, medium-grained sandstone.

V 391.5	10	3800	
H 391.5	47	17000	
V 393.7	39	14000	
H 393.7	58	21000	

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
V 393.9	10	3700		
H 393.9	46	17000		
V 394.3	2.4	880		
H 394.3	26	9400		
V 394.7	15	5400		
H 394.7	69	25000		
V 395.2	15	5300		
H 395.2	100	36000		
V 395.5	29	11000		
H 395.5	75	27000		
V 395.8	43	16000		
H 395.8	73	26000		
V 396	26	9500		
H 396	56	20000		
V 396.5	20	7300		
H 396.5	25	9000		
V 396.8	29	11000		
H 396.8	65	24000		
V 397.1	26	9300		
H 397.1	65	24000		
V 399.4	26	9600		
H 399.4	71	26000		
V 400.3	23	8400		
H 400.3	29	10000		
V 400.4	20	7400		
H 400.4	50	18000		

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
V 402.2	17	6000		
H 402.2	30	11000		
V 402.7	20	7300		
H 402.7	42	15000		
V 408.3	24	8600		
H 408.3	53	19000		
V 408.5	19	7000		
H 408.6	100	38000		

Light brown, planar cross-laminated, fine-grained sandstone.

V 408.7	39	14000		
H 408.7	150	55000		
V 408.9	50	18000		
H 408.9	220	80000		

Light brown, planar cross-laminated, medium-grained sandstone.

V 410.1	13	4800		
H 410.1	101	37000		

Light brown, planar cross-laminated, fine-grained sandstone.

V 412.7	0.035	13		
H 412.7		no flow		

Dark ochre, well cemented, poorly sorted sandstone.
Coarse to fine-sized grains.

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
V 415	6.8	2500		
H 415	2.8	1000		
V 416	4.0	1400		
H 416	13	4600		
V 416.5	2.2	800		
H 416.5	6.1	2200		
V 417	4.2	1500		
H 417	37	13000		
V 417.2	5.7	2100		
H 417.2	8.3	3000		
V 419	1.6	580		
H 419	13	4600		
V 419.2	1.9	690		
H 419.2	16	5900		
V 419.8	8.0	2900		
V 421.9	4.6	1700		
H 421.9	18	6700		
V 422.1	9.3	3400		
H 422.1	7.6	2800		
V 422.5	2.7	970		
H 422.5	6.7	2400		
V 422.7	7.3	2700		
H 422.7	18	6500		
V 422.9	7.3	2700		
H 422.9	15	5300		

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SAMPLE (V=vertical, H=horizontal)	FLOW IN FEET/DAY	FLOW IN MILLIDARCIES	FACIES	ENVIRONMENT
V 423.5	2.2	810		
H 423.5	10	3700		
V 425	9.9	3600		
H 425	21	7600		
V 425.4	8.4	3000		
H 425.4	5.3	1900		
V 425.7	8.0	2900		
H 425.7	39	14000		
V 426.3	5.5	2000		
H 426.3	24	8900		
H 426.5	52	19000		
V 426.6	7.2	2600		
V 427	6.5	2400		
H 427	52	19000		
V 428.3	12	4500		
H 428.3	28	10000		

Tan to light brown, fine-grained sandstone. Mainly planar cross-laminated.
Some wavy and horizontal laminations and ripples.

V 435	3.7	1400		
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Green, planar cross-laminated, fine-grained sandstone.

*Same number for the vertical and horizontal pair indicates samples were taken next to one another.