

**GAYDUSEK CORE
HYDRAULIC CONDUCTIVITY**

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

DAKOTA FORMATION

| | | | | |
|----------|------|-------------------------------|--|---|
| H 209.8 | | no flow | | |
| | | | | Light grey, silty very fine-grained sandstone. |
| V 214.1 | | no flow, sample disintegrated | | |
| V 214.2 | | no flow, sample disintegrated | | |
| V 214.8 | | no flow | | |
| V 214.9 | | no flow | | |
| | | | | Grey, fine to very fine-grained sandstone with trough cross-bedding. |
| *V 219.8 | | no flow | | |
| *H 219.8 | | no flow | | |
| | | | | Light grey, laminated, silty, very fine-grained sandstone. |
| V 232.5 | | no flow, sample disintegrated | | |
| V 233 | | no flow | | |
| | | | | Grey, planar cross-laminated mud and fine-grained sandstone. |
| H 238 | | no flow | | |
| | | | | Grey, silty cross-laminated very fine-grained sandstone. |
| V 303.3 | | no flow | | |
| H 304 | | no flow | | |
| | | | | Grey, silty ripple-laminated, very fine-grained sandstone. |
| <hr/> | | | | |
| V 350.1 | 0.11 | 41 | | |
| | | | | Light grey, wavy laminated, fine to very fine-grained sandstone |
| <hr/> | | | | |
| H 350.8 | 6.4 | 2300 | | |
| | | | | Very light grey with a reddish tinge, wavy laminated, fine-grained sandstone. |

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|---|------------------------|----------------------------|--------|-------------|

| | | | | |
|---------|-----|---------|--|--|
| V 352.6 | | no flow | | |
| H 352.6 | 4.4 | 1600 | | |

| | | | | |
|---------|--|---------|--|--|
| H 354.6 | | no flow | | |
| V 354.6 | | no flow | | |

Light grey, wavy laminated, silty, very fine-grained sandstone

| | | | | |
|-------|-----|-------|--|--|
| V 397 | 57 | 21000 | | |
| H 397 | 180 | 64000 | | |

Brown, well cemented, planar cross-bedded, medium-grained sandstone.

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|---------|-----|-----|--|--|
| V 402.5 | 1.1 | 400 | | |
|---------|-----|-----|--|--|

Grey, medium-grained sandstone with clasts of siltstone.

| | | | | |
|---------|-------|---------|--|--|
| H 415 | | no flow | | |
| V 415.2 | 0.061 | 22 | | |

Grey, ripple cross-laminated, fine-grained sandstone.
Muddy and carbonaceous laminations are discontinuous.

| | | | | |
|---------|-----|-----|--|--|
| V 426.2 | 1.2 | 420 | | |
|---------|-----|-----|--|--|

Grey, ripple laminated, fine-grained sandstone.

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|-------|-----|-----|--|--|
| V 442 | 1.0 | 370 | | |
|-------|-----|-----|--|--|

Yellow, medium to fine-grained sandstone
with some very fine and silt-sized grains.

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| V 472 | 1.8 | 640 | | |
| V 472.25 | 0.77 | 280 | | |

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

Much of the sandstone is poorly cemented and soft. Most did not survive coring well enough for sampling.