

NGL Water Solutions - Formation Data & Detailed Lithologic description

NGL C5A

| Formation | Tops | Btm | Porosity | Lithology | To be Determined | | |
|---------------|--------|--------|----------|--|------------------|---------------|--------------|
| | | | | | TDS | Frac Gradient | Permeability |
| Lyons | 8782' | 8910' | 13% | Sandstone, Leonardian age, very fine to fine grained, red, friable to locally silica cemented, fair to moderate porosity | | | |
| Lower Satanka | 8910' | 9180' | 1% | Siltstone, shale, sparse very fine grained sandstone, brick red, anhydritic, tight | | | |
| Wolfcamp | 9180' | 9230' | 1% | Dolostone, pink to light brown, massive bedded, tight, local anhydrite, white, massive bedded, tight, sparse, thin beds of siltstone and shale | | | |
| Amazon | 9230' | 9290' | 10% | Dolostone, pink to light brown, massive bedded, moderate porosity | | | |
| Council Grove | 9290' | 9440' | 1% | Dolostone, pink to light brown, massive bedded, locally anhydritic, poor porosity, thin beds of red shale | | | |
| Admire | 9440' | 9540' | 3% | Sandstone, red to light gray, very fine grained, anhydritic to dolomitic, tight, shale and siltstone, tight, sparse thin beds of dolostone, poor porosity | | | |
| Virgil | 9540' | 9730' | 12% | Limestone, pink to light gray, massive to thin bedded, locally anhydritic, tight, Dolostone, light gray to pink, massive bedded, moderate to good porosity, sparse, thin beds of red shale and red siltstone | | | |
| Missouri | 9730' | 9875' | 4% | Limestone, pink to light gray, massive to thin bedded, tight, Dolostone, light gray to pink, massive bedded, poor to fair porosity, sparse, thin beds of red shale and red siltstone | | | |
| Fountain | 9875' | 10075' | 4% | Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight | | | |
| Des Moines | 10075' | 10333' | 4% | Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight | | | |
| Atoka | 10333' | 10613' | 2% | Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight | | | |
| Morrow | 10613' | 10640' | 2% | Shale, maroon to green, gray and black, with thin beds of light gray sandstone and light gray to light brown limestone, tight | | | |

*Depths and porosity are based on the NGL C-1 (1-30) SWD (05-123-26004) and Select (Lone Star) LSWD 1 (05-123-30367)