

NGL Water Solutions - Formation Data & Detailed Lithologic description

**NGL C5B**

Formation	Tops	Btm	Porosity %	Lithology	To be Determined		
					TDS	Frac Gradient	Permeability
Lyons	9280'	9477'	15.0%	Sandstone, Leonardian age, very fine to fine grained, red, friable to locally silica cemented, fair to moderate porosity			
Lower Satanka	9477'	9759'	3.0%	Siltstone, shale, sparse very fine grained sandstone, brick red, anhydritic, tight			
Wolfcamp	9759'	9818'	5.3%	Dolostone, pink to light brown, massive bedded, tight, local anhydrite, white, massive bedded, tight, sparse, thin beds of siltstone and shale			
Amazon	9818'	9877'	8.5%	Dolostone, pink to light brown, massive bedded, moderate porosity			
Council Grove	9877'	10053'	7.4%	Dolostone, pink to light brown, massive bedded, locally anhydritic, poor porosity, thin beds of red shale			
Admire	10053'	10125'	2.5%	Sandstone, red to light gray, very fine grained, anhydritic to dolomitic, tight, shale and siltstone, tight, sparse thin beds of dolostone, poor porosity			
Virgil	10125'	10351'	14.6%	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	10351'	10488'	2.9%	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	10488'	10661'	9.0%	Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight			
Des Moines	10661'	10951'	3.6%	Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight			
Atoka	10951'	11155'	3.6%	Sandstone, very fine to medium grained, red to pink, calcareous, tight, interbedded with red shale and siltstone, locally micaceous, tight			