

## Lithology

**False Bakken Shale      10804' MD & 10759' TVD**

**Upper Bakken Shale      10808' MD & 10770' TVD**

**Middle Bakken            10830' MD & 10790' TVD**

**Lower Bakken            10928' MD & 10848' TVD**

**Three Forks              11044' MD & 10887' TVD**

11000-11200      Dolomite- medium gray, tan to brown, some dark brown, firm, fine to microcrystalline, trace sucrosic, argillaceous, silty, slightly calcareous, no florescence, very good bright yellow/white streaming cut, good bright yellow residual halo cut; with interbedded green blue shale

11200-11700      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, silty, slightly calcareous, scattered dull yellow hydrocarbon florescence, Faint light yellow cut, with interbedded green blue shale

11700-12100      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, silty, slightly calcareous, scattered dull yell hydrocarbon florescence, Faint light yellow cut, with interbedded green blue shale, 2% green oil in possum belly

12100-12400      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, silty, slightly calcareous, dull scattered bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 2% green oil in possum belly

12400-12500      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 2% green oil in possum belly

12500-13900      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 2% green oil in possum belly

13900-15400      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 10% green oil in possum belly

15400-15500      Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence,

immediate light yellow cut, with interbedded green blue shale, 20% green oil in possum belly

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| 15500-15600 | Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 10% green oil in possum belly   |
| 15600-15700 | Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 20% green oil in possum belly   |
| 15700-16500 | Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 10% green oil in possum belly   |
| 16500-20200 | Dolomite- cream, buff, tan, light brown - brown, firm, fine to microcrystalline, dense to poor intercrystalline porosity, slightly firm to sucrosic, argillaceous inter porosity, some chalky inter porosity, silty, slightly calcareous, bright yell hydrocarbon florescence, immediate light yellow cut, with interbedded green blue shale, 10% green oil in possum belly, samples contain large amounts of beads, system closed in |