

121-05042

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GENERAL SAMPLE DESCRIPTION

SW 6-55-51W  
Washington Co.  
Colo.

Sample description begins at 4,000 feet in Pierre Shale.

4000-4032 Shale, dark gray to black, very finely micaceous, traces of bentonite, traces of gray silt.

4032 Top of Niobrara



4032-4486 Shale, gray to tan with tan calcareous specks, becoming more calcareous with increase in depth, traces of aragonite, traces of blue green bentonite, traces of white chalky limestone in bottom few feet.

4486 Top of Timpa Limestone.

4486-4532 Limestone, white, very fine grained, very fossiliferous with some dark gray silty sand in bottom few feet. Much black shale.

4532 Top of Carlile Shale.

4532-4632 Shale, gray to dark gray, fissile with traces of dark gray silt, traces of aragonite.

4632 Top of Greenhorn.

4632-4846 Interbedded tan granular limestone, silty lime, limy silt and dark gray, calcareous shale, many fossil fragments scattered throughout. Traces of bentonite throughout.

4846-4850 Bentonite, white, pasty.

4850-4942 Black, fissile shale with traces of dark gray silt, traces of tan limestone. Trace of brown, dense limestone at 4860.

CORE DESCRIPTION

Core #1 4942-4985 (Schlumberger Measurement) Recovered 43'.

3' Black, fissile shale

Top of "D" Sand 4945 (+129)

7' Shaley sand, gray, fine grained, very silty, very low porosity and permeability, no shows.

1' Tan bentonite.

4' Very thinly laminated fine grained sand and black shale, very hard and tight, no shows.

1' Black, fissile shale and kaolin with thin lenses of gray, fine grained quartzitic sand, no shows.

1' Interbedded black shale and silty shale.

4' Sandstone, gray, fine grained, slightly reworked, very poor porosity and permeability, very wet, no shows. Thin black shale partings throughout.

1' Black, fissile shale.





- 5' Sandy shale, reworked in part, very hard and tight, no shows, many black shale partings throughout, with traces of pyrite.
- 11' Sandstone, gray, fine grained, very silty with black shale partings throughout. Top 6' fairly clean and with bottom 5' becoming very silty, fair porosity and permeability, very wet, no shows.
- 5' Sandstone as above, becoming reworked, very shaley, poor porosity and permeability, very wet, no shows.
- 4985-4997 Black, fissile shale.
- 4997 (+77) Top of "J" Sand.
- 4997-5001 Sand, gray, fine grained, very shaley, poor porosity and permeability, no shows.
- Core #2 5001-5044. Recovered 43'.
- 8' Reworked sand and shale, very silty, many black, carbonaceous shale partings scattered throughout, hard and tight, no shows.
- 4' Reworked sand and shale, very soft and friable, poor porosity and permeability, very wet, no shows.
- 4' Reworked sand and shale, very shaley, hard and tight, no shows.
- 4' Interbedded, fine grained sand and silty shale, very hard and tight, no shows.
- 2' Laminated sand and shale, very silty, hard and tight, no shows.
- 2' Dark gray, silty shale.
- 5' Dark gray, silty shale with few thin sand lenses scattered throughout, very hard and tight, few black carbonaceous plant remains in bottom 2 feet.
- 4' Sandstone, gray, fine grained, very silty, poor porosity and permeability, black shale partings throughout, trace of clay, black carbonaceous plant remains, no shows.
- 10' Sandstone, white, medium grained, clean sand with only a trace of clay mineral, sub/rounded, well sorted grains, good porosity and permeability, very wet, no shows, no stain, no taste, no odor, no fluorescence.
- 5044-5072 Sandstone, white, medium grained, good porosity and permeability, friable sand, very wet, no shows.
- 5072-5082 Black, fissile shale.
- 5082-5110 Sandstone, white to gray, medium grained, fair to good porosity and permeability, very wet, no shows, and black shale.

- 5110-5170 Sandy shale and dark gray silty sand with black fissile shale.
- 5170 Top of Skull Creek.
- 5170-5207 Black, fissile shale with trace of gray silt.