

LINN COUNTY OIL DEVELOPMENT COMPANY

Barr #1  
 32-11S-1W  
 Linn County, Oregon  
 Elevation 355 feet topo.  
 T.D. 4529 feet  
 12/18/58  
 Samples examined by Biskamp

Sample Summary

Samples examined from 1600 feet to 4167 feet were predominately tuffs, with a few tuffaceous siltstones in the upper 400 feet. The interval from 3145 feet to 4167 feet contained tuffs and weathered basalt. This entire section is probably the Mehama volcanics of lower Oligocene age which is, in part, equivalent to the Eugene formation.

The section from 4167 feet to 4503 feet (lowest sample examined) showed a marked lithologic break with the appearance of sands and silts. This is probably the Spencer formation of late middle Eocene to early late Eocene age.

The absence of fossils and glauconite in the samples, and the presence of what appeared to be carbonized matter in the upper interval and pyritized material in the lower interval suggests a non-marine, lacustrine or deltaic type depositional environment.

<u>From</u>	<u>To</u>	
	1600 ±	Tuffs, maroon to purple, lithic; siltstone, light brown to gray, sandy, tuffaceous.
1610	1640	Tuff, as above; tuff, gray, lithic; siltstone, as above.
1670	1700	Tuff, as above; tuff, light green to gray, lithic, waxy; sandstone, light gray, very fine to medium grained, subangular to angular quartz grains, poorly sorted, tuffaceous, argillaceous.
1700	1730	Tuff, as above; sandstone, as above; siltstone, cream to light gray, sandy, tuffaceous; sandstone, black, very fine to medium grained, subrounded to subangular quartz grains, tuffaceous, silty.
1872	1912	Tuff, maroon to purple, lithic; siltstone, light green to light gray, sandy, angular quartz grains, tuffaceous.
1912	1930	Tuff, as in 1670-1700, with medium to coarse grained quartz crystals; siltstone, tan, sandy, tuffaceous; siltstone, gray, tuffaceous, slightly sandy.
1930	1960	Tuff, maroon to purple, lithic, tuff, dark gray to black containing medium to coarse, angular quartz crystals fragments.

- 1974 Tuff, as above; tuff, gray, vesicular with agate fillings, also with quartz as above.
- 2005 Tuff, maroon to purple as above; tuff, gray to black, lithic.
- 2031 Tuff, maroon to purple as above; tuff, light gray to light green, crystal and lithic, vesicular with agate fillings, also with medium to coarse angular quartz crystals.
- 2089 Tuff, as above.
- 2117 Tuff, as above.
- 2147 Tuff, as above.
- 2237 Tuff, rust to purple, lithic; tuff, gray, lithic; sandstone, light gray to light green, fine grained, tuffaceous, silty.
- 2269 Tuff, as above.
- 2300 Tuff, as above.
- 2329 Tuff, rust to gray to green.
- 2356 Tuff, as above with few coarse, angular quartz grains.
- 2385 Tuff, as above; siltstone, light gray, tuffaceous, sandy.
- 2415 As above.
- 2445 As above.
- 2476 Tuff, gray to light green, lithic; tuff lavender; siltstone, tan, tuffaceous and argillaceous.
- 2507 Tuff, gray to rust to black, lithic, with subhedral to euhedral coarse quartz grains; siltstone, light gray to greenish gray, tuffaceous.
- 2538 As above.
- 2567 As above.
- 2602 Tuff, gray, black, rust and light green, lithic, large subhedral to euhedral quartz grains common, agate common.
- 2625 As above but containing less quartz.
- 2665 As above.
- 2688 As above.
- 2717 As above.

2746 As above.

2777 Tuff as above; siltstone, light gray to light green, tuffaceous.

2806 Tuff, as above.

2840 As above.

2936 As above.

2970 As above.

2985 As above.

3016 As above.

3046 As above.

3076 As above.

3107 As above.

3137 As above.

3145 Tuff, pink to rust, green; basalt black.

3165 Tuff, varicolored, sparse quartz grains, lithic.

3195 As above.

3230 As above.

3254 As above.

3297 As above; trace basalt.

3314 As above; trace basalt.

3344 Tuff, as above.

3374 Tuff, as above; basalt, finely crystalline, black.

3415 As above.

3437 Tuff, rust to red, gray, trace pyrite, medium subangular to angular quartz grains.

3495 Tuff and basalt as above.

3529 As above.

3556 As above.

- 3585 As above.
- 3615 As above.
- 3675 Tuff and basalt; siltstone, gray, slightly sandy, tuffaceous.
- 3706 As above.
- 3737 Tuff and basalt.
- 3767 As above.
- 3862 As above.
- 3891 As above.
- 3922 As above.
- 3950 As above.
- 4167 Tuff, as above; siltstone, gray to black, argillaceous; basalt, black, finely crystalline.
- 4358 Tuff, rust to lavender; sandstone, gray to brownish, very fine to fine grained, tuffaceous, silty, poorly sorted; siltstone, gray to tan, tuffaceous, sandy; sandstone greenish white, fine to medium grained, subangular to angular quartz grains.
- 4388 Tuffs, rust to red to gray, lithic, pyritised; sandstone, gray, very fine to fine grained, tuffaceous; siltstone, gray to brown, tuffaceous, sandy, with pyrite.
- 4392 Tuff, as above, sandstone and siltstone as above; sandstone, white, very fine to medium grained, subangular to subrounded quartz grains, friable, poorly sorted, tuffaceous.
- 4405 As above.
- 4420 As above.
- 4435 As above.
- 4503 As above.