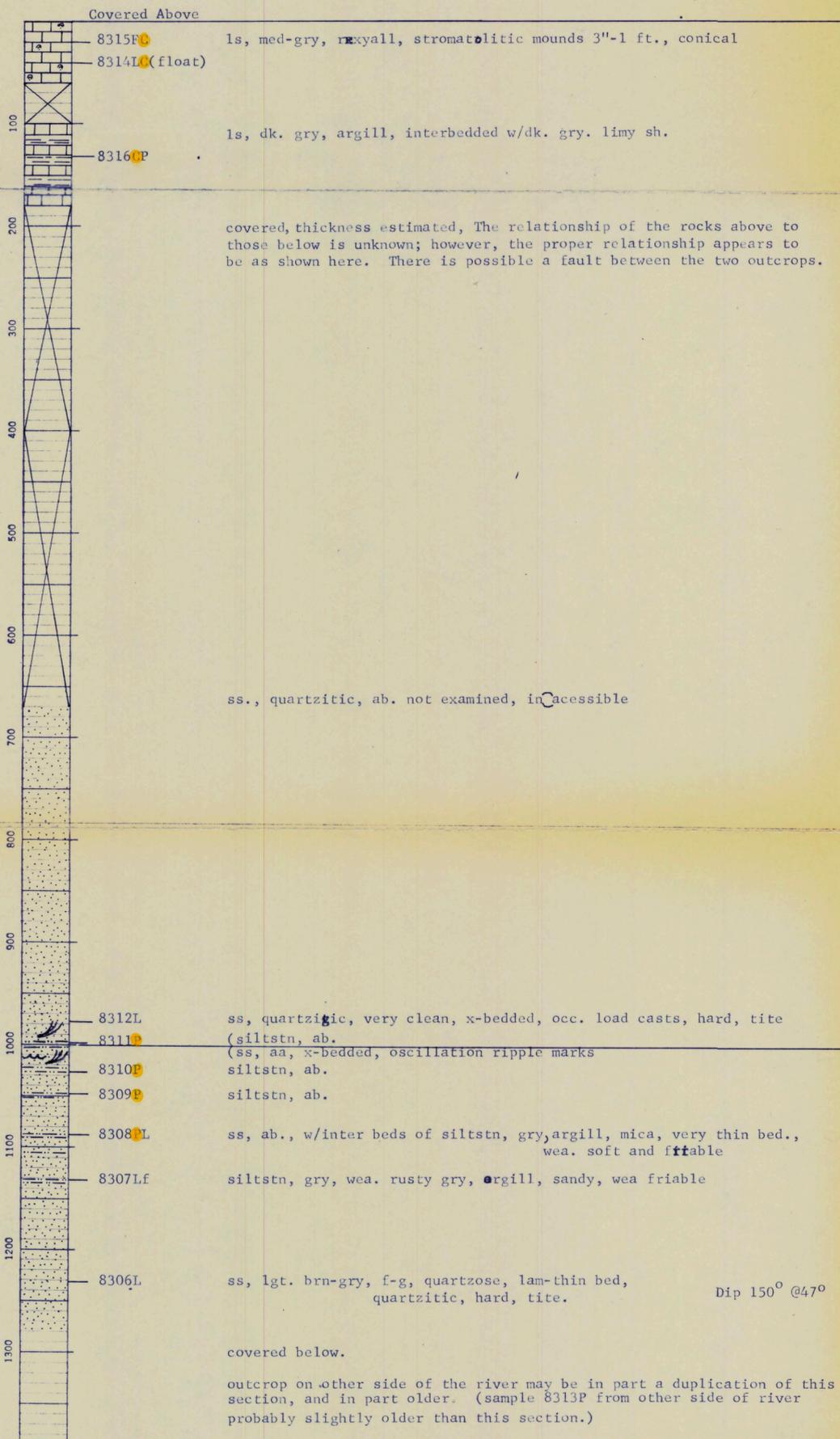
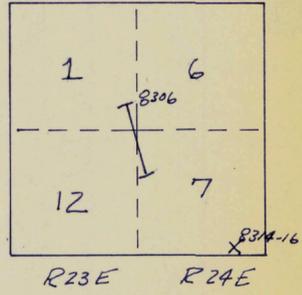


Amoco Production Company

Surface Log

Name MOUTH COLEEN RV. SECTION
 COUNTY Porcupine Rv. Area STATE Alaska
 LOCATION _____ °N _____ °W Sec. 12 TWN 26N R6G 23E
 MEASURED BY Hankinson, Furer DATE July 17, '72
 INTERVAL _____
 REMARKS _____



MOUTH COLEEN RIVER SECTION

Most of this section was measured at good exposures on the west bank of the Coleen River about 1½ miles from its mouth. The top 180 feet of the section was measured a short distance downstream. The stratigraphic relationship of the two parts of the section is not clear. Dip suggests that the carbonates probably overlie the sandstones as shown. The same sequence and an underlying extension of it crops out on the east side of the Coleen River (Sta. 14 of 1971.) Most of the sandstones in this section are very clean quartz sandstones which are very hard because of siliceous cement. Where the sandstones become silty or argillaceous, they weather friable. This suggests to me that they were never as well cemented because they lacked the initial porosity to allow the degree of silicification that is found in the "clean" sandstones. One dark shale found in the same sequence on the east side of the river is soft and shows no metamorphic effects, thus the silicification is a result of interstitial fluid movement and not metamorphism. It is possible that these rocks could have good porosity in the subsurface of the Ft. Yukon Basin. The age of this sequence is