

**ATTACHMENT 9**

**APPENDIX 8 TO SUBPART A OF PART 435—REFERENCE C<sub>16</sub>–C<sub>18</sub> INTERNAL OLEFIN DRILLING FLUID FORMULATION**

The reference C<sub>16</sub>–C<sub>18</sub> internal olefin drilling fluid used to determine the drilling fluid sediment toxicity ratio and compliance with the BAT sediment toxicity discharge limitation (see § 435.13) and NSPS (see § 435.15) shall be formulated to meet the specifications in Table 1 of this appendix.

*Drilling fluid sediment toxicity ratio* = 4-day LC50 of C<sub>16</sub>–C<sub>18</sub> internal olefin drilling fluid/4-day LC50 of drilling fluid removed from cuttings at the solids control equipment as determined by ASTM E1367–92 [incorporated by reference and specified at § 435.11 [e]] and supplemented with the sediment preparation procedure (Appendix 3 of subpart A of this part).

**TABLE 1.—PROPERTIES FOR REFERENCE C<sub>16</sub>–C<sub>18</sub> IOS SBF USED IN DISCHARGE SEDIMENT TOXICITY TESTING**

Mud weight of SBF discharged with cuttings (pounds per gallon)	Reference C <sub>16</sub> – C <sub>18</sub> IOS SBF (pounds per gallon)	Reference C <sub>16</sub> – C <sub>18</sub> IOs SBF synthetic to water ratio (%)
8.5-11.....	9.0	75/25
11-14.....	11.5	80/20
>14.....	14.5	85/15
Plastic Viscosity (PV) centipoises (cp).....	12-30	
Yield Point (YP) pounds/100 sq ft.....	10-20	
10-second gel, pounds/100 sq ft.....	8-15	
10-minute gel, pounds/100 sq ft.....	12-30	
Electric stability, V.....	>300	

[66 FR 6901, Jan. 22, 2001]