COMPOSITE WELL FLOW CONDUCTOR FOR SUBTERRANEAN MULTILATERAL WELL DRILLING AND COMPLETION AND METHOD OF MANUFACTURE THEREFOR

ABSTRACT OF THE DISCLOSURE

A well flow conductor and method of manufacture therefor. The well flow conductor comprises: (1) a composite liner tube composed of a plurality of overlapping, resin-bonded composite plies and adapted to conduct a fluid flow therethrough and (2) a composite outer structure surrounding the composite liner tube and composed of a plurality of overlapping, resin-bonded composite plies arranged in a plurality of opposed helices about a centerline of the composite liner tube, the opposed helices intersecting at predetermined axial and radial locations on an outer surface of the composite liner tube to form nodes extending radially outwardly from the outer surface to form standoffs therefrom, the standoffs capable of centralizing the well flow conductor within an interior of a casing having a larger radius than that of the well flow conductor.

Fig. 2