DISCUSSION AND REPLY

Directional Survey Problems, East Wilmington Oil Field, California: Discussion

R. P. Harvey and J. E. Walstrom
San Francisco, California 94120

Truex (1971) reviewed the use of several directional survey models in his fine paper and included a brief review of our paper (Walstrom et al., 1969).

In the discussion at the end of our paper we mentioned that our computer program makes available two methods for directional survey calculations, one of which is the tangential terminal angle method. Although we used a linear segment type model we did not mention the derivation of the angles to be associated with each linear segment or station interval, nor was it a matter of direct concern for the subject matter of that paper. In fact, our studies have demonstrated that the terminal tangential method is grossly susceptible to errors and should be abandoned, which substantially agrees with Truex's sentiments.

We have in routine use within our company several survey models which are superior to the classical terminal tangential method and also have obtained many interesting results using these various models. We plan to make these models and results available to the industry in the near future.

References Cited


Reply

I regret that in my haste to incorporate a review of the very timely paper, "An Analysis of Uncertainty in Directional Surveying," by J. E. Walstrom, A. A. Brown, and R. P. Harvey (1969) in a revision of my original manuscript of "Directional Survey Problems, East Wilmington Oil Field, California" (Truex, 1971),

I misquoted the authors as having used the tangential terminal angle method of survey computation in the hypothetical cases cited. The recent general condemnation of this archaic method is noted with great satisfaction.

References Cited
