

### **Initial results from the AMSO RD&D pilot test program**

Alan Burnham<sup>1</sup>, Roger Day<sup>1</sup>, Leonard Switzer Jr<sup>1</sup>, James McConaghy<sup>2</sup>, Michal Hradisky<sup>3</sup>, Daniel Coates<sup>3</sup>, Philip Smith<sup>3</sup>, John Foulkes<sup>4</sup>, Douglas La Brecque<sup>5</sup>, Pierre Allix<sup>6</sup>, Henrik Wallman<sup>7</sup>

<sup>1</sup>*American Shale Oil LLC, USA*, <sup>2</sup>*Antero Engineering, USA*, <sup>3</sup>*University of Utah, USA*, <sup>4</sup>*TOTAL E&P R&T USA, USA*, <sup>5</sup>*Multi-Phase Technologies LLC, USA*, <sup>6</sup>*Total E&P, France*, <sup>7</sup>*ProCo-Process Consultants, USA*

AMSO has constructed a Pilot Test facility at its BLM RD&D Lease Tract and conducted numerous commissioning activities. In one short-term heater test, we obtained thermal response data for thermal diffusion to observation wells placed from a few to less than 30 feet from the heater well. In a separate short-term test, warm oil was recirculated up and down the production well, and information was obtained for heat loss from tubulars and the effectiveness of aerogel insulation. Modeling results are presented for both cases.