



Partnering to  
Power the World

## FLOW ASSURANCE TEST LOOP

### Objective

Over a decade ago, RMOTC began cooperatively building a full-scale facility to test new flow assurance technology, mainly in the areas of hydrates and paraffins. Today, RMOTC's test facility consists of five individual loop sections, including chilling and heated pipe-in-pipe water sections, bare lines, and a mixing section.

The facility was designed to represent typical deepwater production systems in order to simulate full-scale tests and apply the results to flow assurance field applications and technology. The current facility design consists of a 6" x 3,600 maximum allowable operating pressure test pipeline in five separate loops. The test loops begin and terminate at a central location just north of the Customer Operations Center at Naval Petroleum Reserve No. 3 (NPR-3). Tests can be run in the loops without interfering with other field production activities.

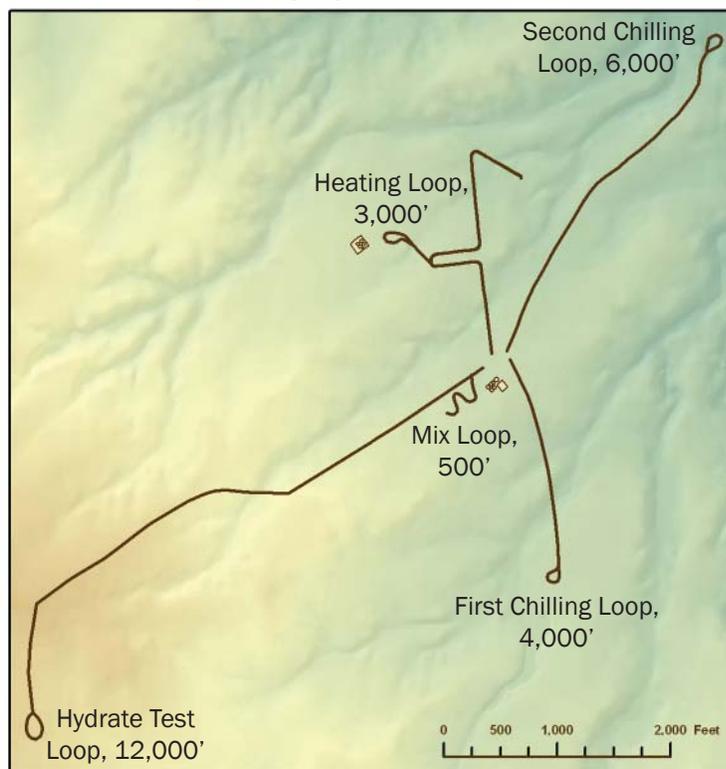
Bellholes constructed with galvanized steel culvert material are spaced along three of the lines for valving, instrumentation, and sampling access. Measuring 10' wide and 10' deep, each bellhole has heavy gauge hinged sheet metal lid.

This versatile facility has a broad range of testing capabilities and may be available for future development projects.

### Contact

For more information about these opportunities or to discuss your testing needs, contact RMOTC toll-free at 888.599.2200, or visit the website at [www.rmotc.doe.gov](http://www.rmotc.doe.gov)

### RMOTC Flow Loop Facility Layout



### Why test with RMOTC?

- Terrain and ambient temperatures mimic seafloor conditions
- Project cost sharing
- ESS&H programs and permits are in place
- Buildings, tanks, flow lines, & production facilities
- Large land area for field-scale testing
- Testing fluids available on site



RMOTC can simulate offshore conditions by creating hydrates, which often plug flow lines and slow production.



Office of Fossil Energy