

# Lotem-Suite

## 1D LOTEM modeling

Lotem-Suite is a 1D modeling program for Long Offset Transient ElectroMagnetics (LOTEM).

LOTEM is a Time Domain Electromagnetic method (TEM) which uses grounded electric dipole sources for detection and delineation of resistive features in the subsurface.

The LOTEM method can also be used for:

- Mapping thin resistive layers, e.g. hydrocarbon saturated layers
- Determining conductive structures, e.g. geothermal anomalies
- Sub basalt imaging
- Complete scanning of the subsurface from shallow to deep structures

**Model Suite Parameters**

Field Component:  
 EX Component  
 EY Component  
 HZ Component

Generate: 5

Curves with varying:  
 Single Layer Resistivity  
 Single Layer Thickness  
 Single Layer Depth  
 Source-Receiver Offset  
 Tx-Offset Angle  
 Fade in Second Model

Subtract Second Model

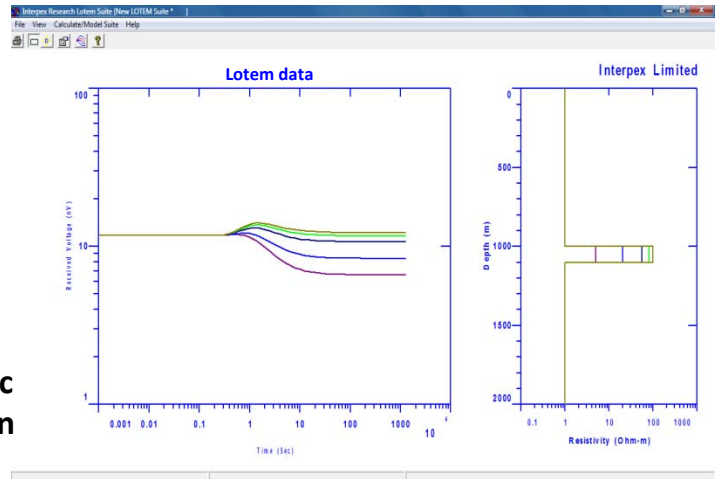
Data Display:  
 Received Voltage  
 Early Apparent Resistivity  
 Electric Field  
 Early + Late Rho-A  
 All-Time Rho-A  
 Early, Late + All-Time Rho-A

Source Moment:  
Length (m): 1000.0  
Current (A): 1.0000

Receiver Moment:  
Length (m): 1.0  
Area (m<sup>2</sup>): 251000.0

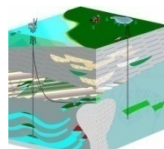
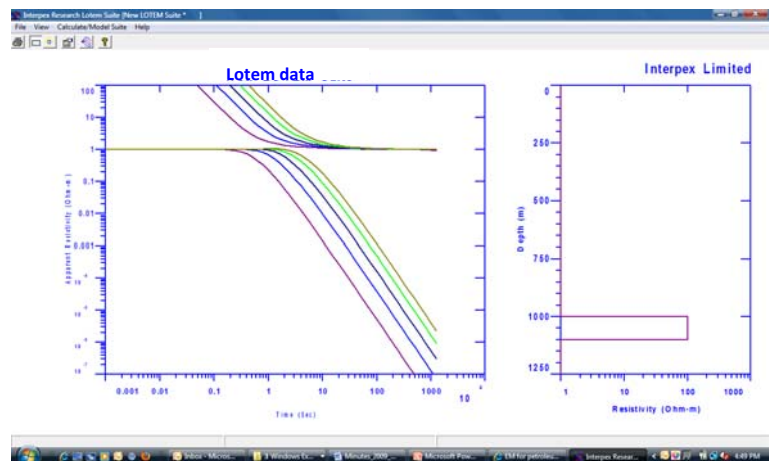
Offset: 3000.0  
Tx/Offset Angle(deg): 90.0

< Back Next > Cancel



## Features Include:

- Multi-component calculations
- Multiple parameter variations for single layers
- Spreadsheet data editors with Copy & Paste
- Spreadsheet model editors
- Multiple display features
- ASCII File Export of data & models

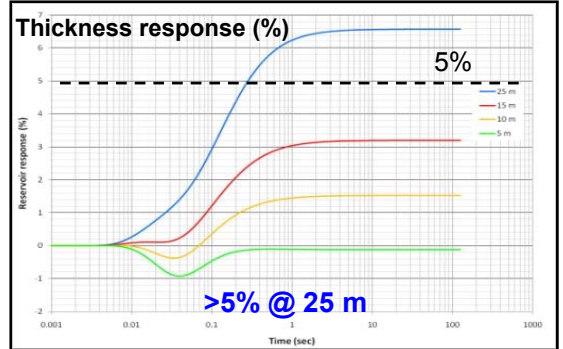
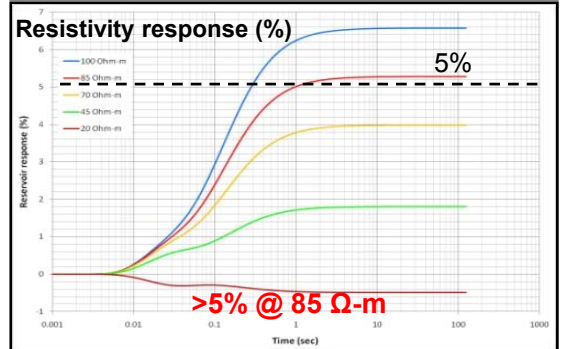
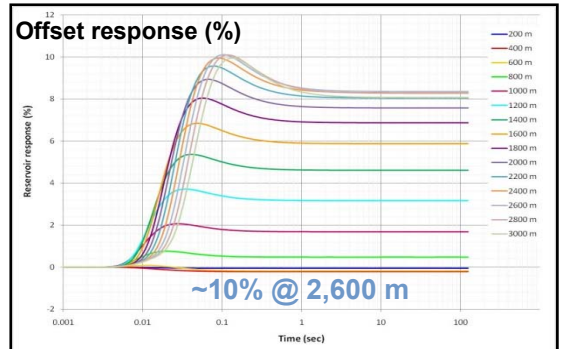
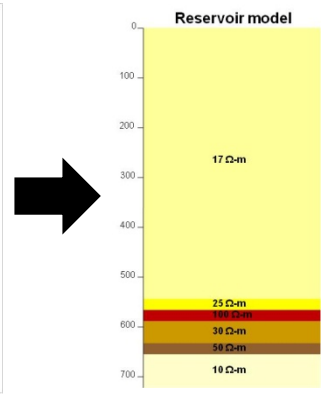
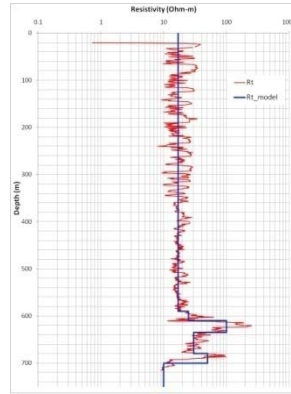
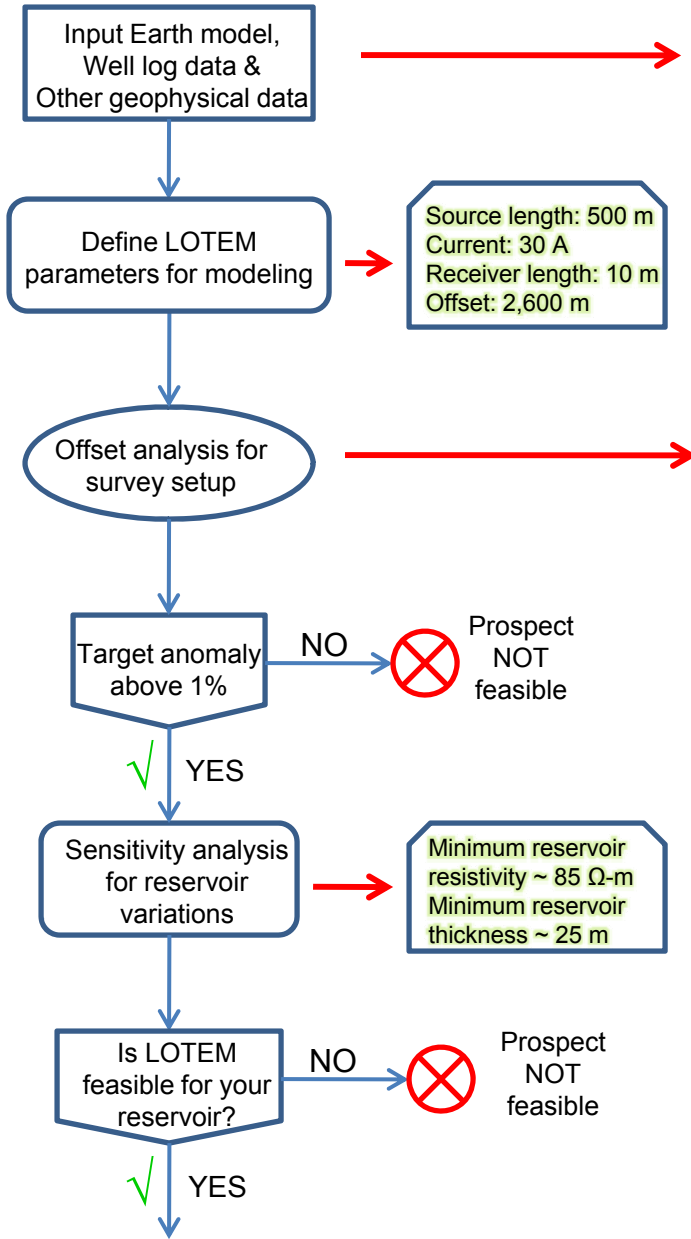


**KMS Technologies**  
An EMGS/RXT company



# Software applications

## LOTEM feasibility workflow



## Survey design & acquisition

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