

TRAINING AGENDA

INTRODUCTION TO SES 4.68

March 1, 2012
Stoner Engineering LLC
Golden, CO

- 7:50-8:00 (equipment setup & check-in)

Thursday 8:00-12:00 (morning session)

(Mike) SES 4.x Introductory Demo

- Manual/website consultation
- Installation & SESdata.mdb
- Navigate and briefly discuss all Main Menu screens
- Navigate and briefly discuss tabs of SES screen

Specific Data Loading Examples (Survey)

- Excel file format (xls)
- LAS file format (CWLS log ASCII standard)
- Example with MD > 0 at first station (survey tie-point concept)

Well Planner & Geologic Model from External Software (Grid Data)

- General discussion
- Load training grid data
- Design well plan of Training Well #1 using training grid data
 - Surface X=1,000,000 ft, Surface Y=750,000 ft, Surface Z=3000 ft
 - Assume vertical well at tie-in of 8300 ft MD/TVD;
 - Build gradient 12°/100 ft, headed due North; lateral length 2100 ft

Technical Hole Deviation Technology

- Calculate and view Training Well #1 THD and THD Logs
- Directional control monitoring

Setup & Geosteer **Training Well #1** from Scratch

- Load all raw data (survey, type log & target top, LWD gamma)
 - Target top @ 9187 ft
 - 6 ft thick payzone
- Geosteer landing
- Create derived type log
- Geosteer remainder of well, with updated planned path(s) for dir. driller

- Create cross-sections
 - Stack offset beds (2.5 ft above, 2.5 ft below)
 - Add LWD gamma lines of constant value (20, 70)
 - Post zone in/out statistics
- Update external geologic model from cross-sections export
 - Formation boundary crossing depths
 - Footage-zone summary statistics

Thursday 12:00-13:00 catered lunch

Thursday 13:00-16:45 (afternoon session)

SES Well Data Transfer between People/Computers

- SES xml file exporting and importing
- Well copy
- SESdata.mdb management discussion
- How best to close SES if using floating-network license format

Import SES xml file & Geosteer **Training Well #2**

Transfer a well plan to SES from service company PDF file

Import SES xml file & Geosteer **Training Well #3**

Import SES xml file & Geosteer **Training Well #4 or your own well**

(Mike - 4:30 pm) Final review – emphasis on *Tips & Secrets*