AGENDA

- Introduction
- Job Design
- Execution
- Summary
Introduction

- Development field in South Oman.
- Vertical wells depth 1000-1400m
- Typically 4.5” HSD guns on electric wireline
  - Multiple runs of up to 12.5m per run
  - Gross perforating length of 20-30m
  - 2-3 runs. Each run up to 1.5-2.0 hours
- What if all combined into single run?
Well-36

- Trial of single run.
- 24m of 4.5” HSD guns in single run.
- Weight 2150 lbs
Job Design

- Cable Tension Simulation
- Gun Shock Simulation
- Accessories Selection
Job Design

Cable Tension Simulation
Job Design

- Wellbore dynamics
- Load on cable and weak point
Job Design

Cable Tension Simulation

Gun Shock Simulation
Job Design

Cable Tension Simulation

Gun Shock Simulation

Gun Length

Cable

Shock Absorber

Weakpoint

As per simulation

10% stronger

Not used

25.3m
Summary

- Job executed successfully.
  - Typical 2 runs@ 5 hours achieved in single run @ 2.5 hours.
- Each job is unique, requires design.
- Possibility of expanding the envelope.
QUESTIONS?
THANK YOU!