

# xBolt

## Surface Rig Up

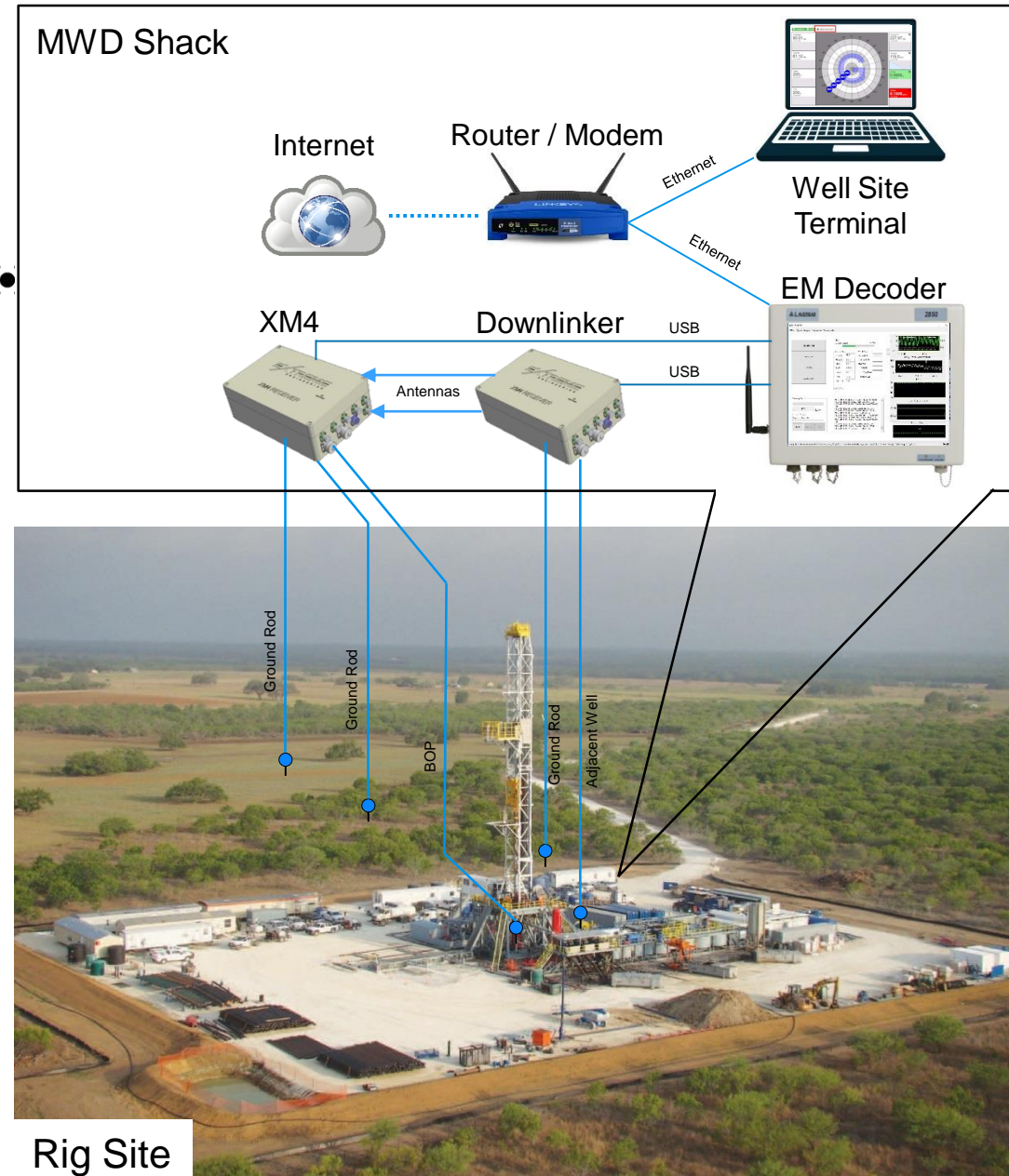
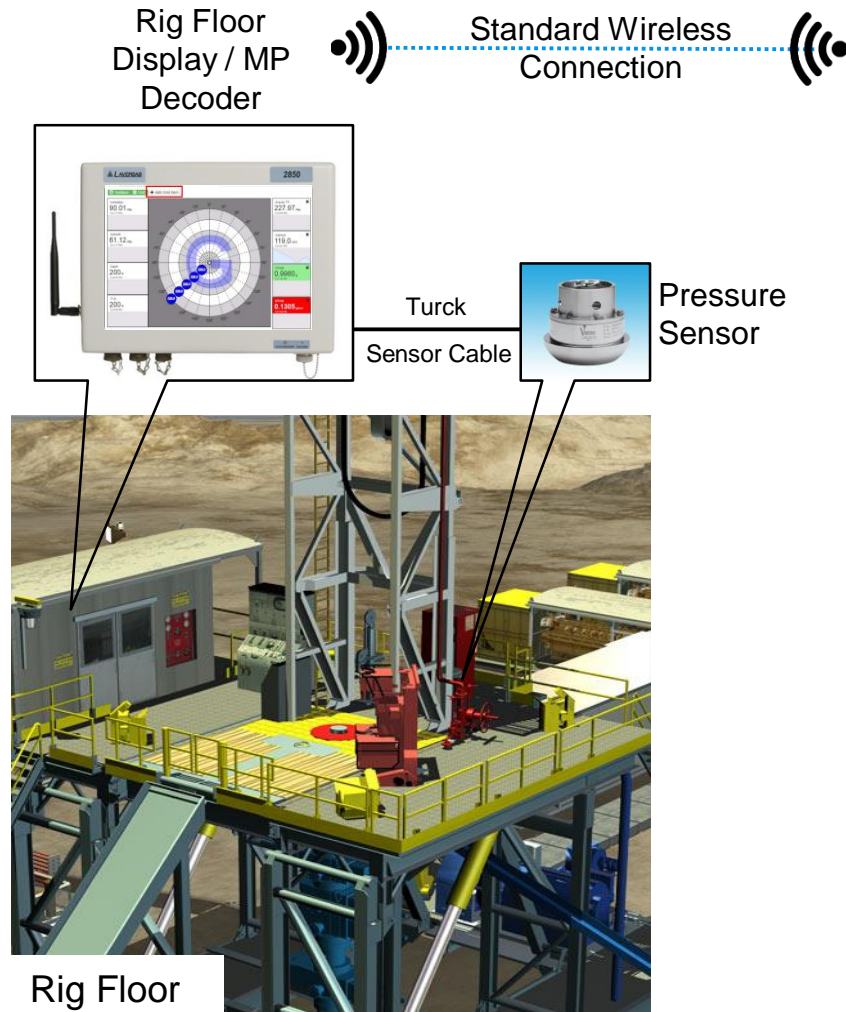
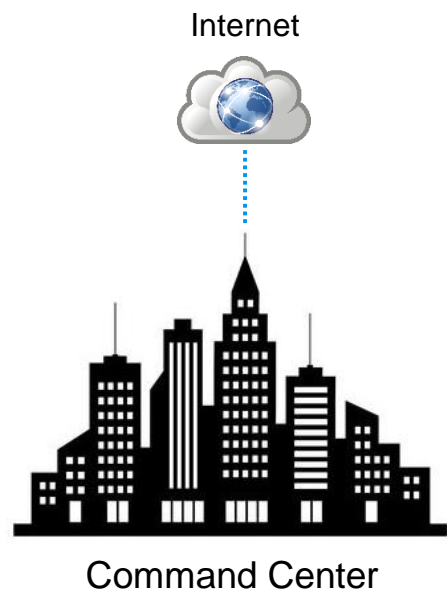
**EXTREME**™



# Objectives

- Learn how to rig up for tool programming
- Learn how to rig up for bank test
- Learn how to rig up for real time operations

# xBolt Rig Up



# xBolt Surface Rig Up

Tool Programming

# xBolt Rig Up – Tool Programming

- Hardware needed

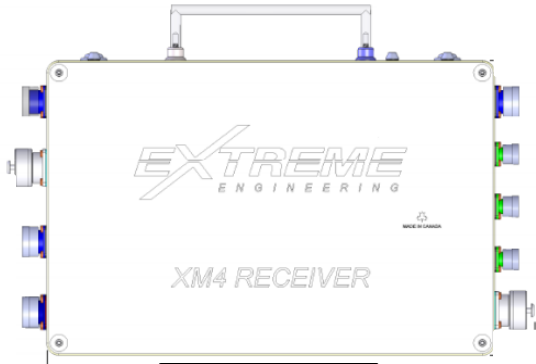
- Laptop or Tablet w/XDirect
- XM4
- Female Hand Held ROTC
- Male Hand Held ROTC  
(XHOP/Babelfish Comms)

- Cabling Needed

- USB type A to type A - 2.5m
- Cable, 2M, F-F, 10-PIN, HHROTTC
- Cable, 15M, M-F, 10-PIN, HHROTTC extension



# xBolt Rig Up – Tool Programming Components



XM4  
(102943588)



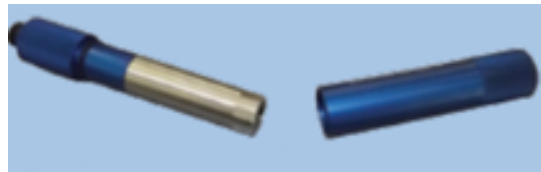
Laptop / Tablet  
(100156420)



USB type A to type A  
(22CABL0107)



HHROT Ext. M-F  
(22CABL0030)



Female Hand Held ROTC  
(02ROTC0038)

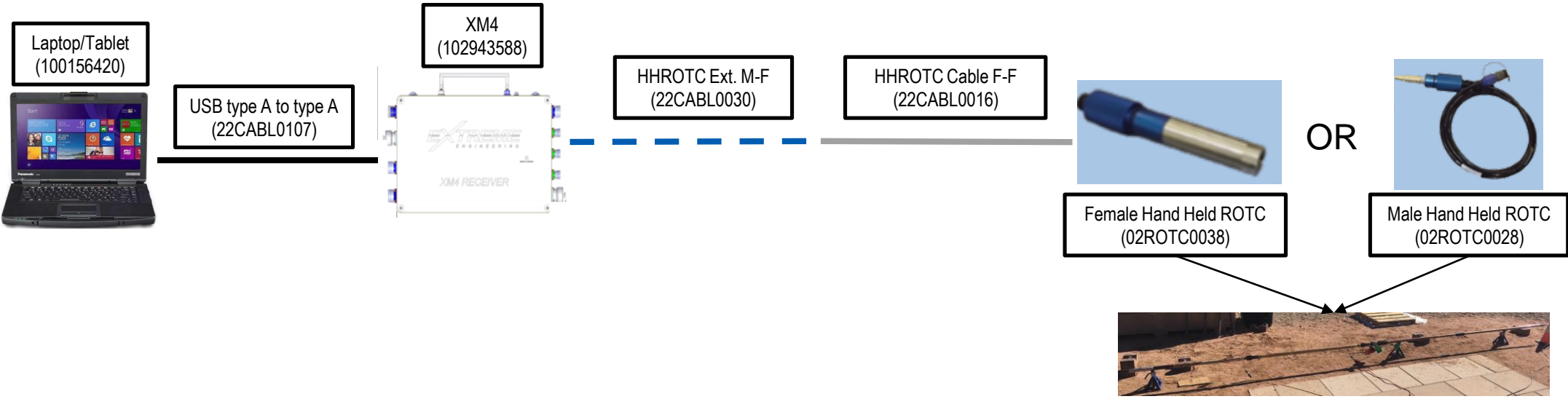


Male Hand Held ROTC  
(02ROTC0028)



HHROT Cable F-F  
(22CABL0016)

# xBolt Rig Up – Tool Programming – Schematic



# xBolt Surface Rig Up

Bank Test



# xBolt Rig Up – Bank Test

## ■ Hardware Needed

- Laptop or Tablet w/XDirect
- XM4
- XEM Downlinker
- Female Hand Held ROTC
- Modified XEM Test Box
- Bore Pressure Test Clamp
- Bike Pump
- Vibrator

## ■ Cabling Needed

- USB type A to type A - 2.5m (x3)
- Cable, 2M, F-F, 10-PIN, HHROTC
- Cable, 15M, M-F, 10-PIN, HHROTC extension
- Cable Test Clamps (x2)
- BOP/ANT Test Cables (x4)
- BOP/ANT Extension Cable (x2)

# xBolt Rig Up – Bank Test Components



XEM Downlinker  
(102943588)



Modified XEM Test Box  
(22XEM0021)



Bore Pressure Test Clamp  
(102927597)



Bike Pump  
(22XEM0022)



Vibrator  
(02PULS0033)



Cable Test Clamps (x2)  
(22XEM002)

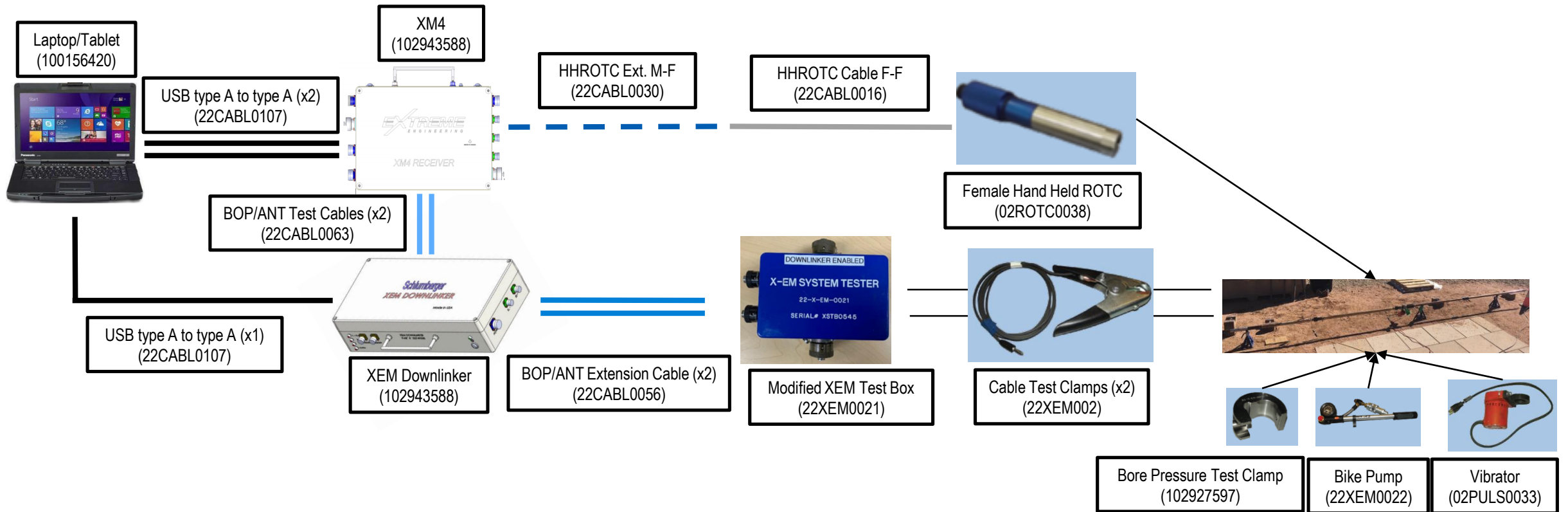


BOP/ANT Test Cables (x4)  
(22CABL0063)



BOP/ANT Extension Cable (x2)  
(22CABL0056)

# xBolt Rig Up – Tool Programming – Schematic



# xBolt Surface Rig Up

Real-Time Operations

# xBolt Rig Up – Real-Time Operations

## ■ Hardware Needed

- Laversab
- Microhard
- Bi-Directional Antenna
- Laptop/Tablet
- XM4
- XEM Downlinker
- Pressure Transducer

## ■ Cabling Needed

- BOP/ANT Test Cables (x2)
- BOP/ANT Extension Cable 25m (quantity varies)
- BOP/ANT Extension Cable 100m (quantity varies)
- BOP Clamp Cable (quantity varies)
- Ground Antenna Clamp Cable (quantity varies)
- Ground Antenna (quantity varies)
- Turck Sensor Cable
- Bi-Directional Antenna Cable
- Straight RS232 Cable M-F

# xBolt Rig Up – Real-Time Operations Components



Laversab  
(102822559)



Microhard  
(102822690)



Bi-Directional Antenna  
(N/A)



Bi-Directional Antenna Cable  
(129-1431A1)



Straight RS232 Cable M-F  
(DBR702627)



Pressure Transducer  
(779-08247)



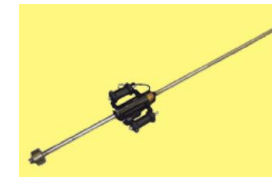
BOP/ANT Ext. Cables, 100m  
(22CABL0033)



BOP Clamp Cable  
(22CABL0055)



Ground Ant. Clamp Cable  
(22CABL0058)



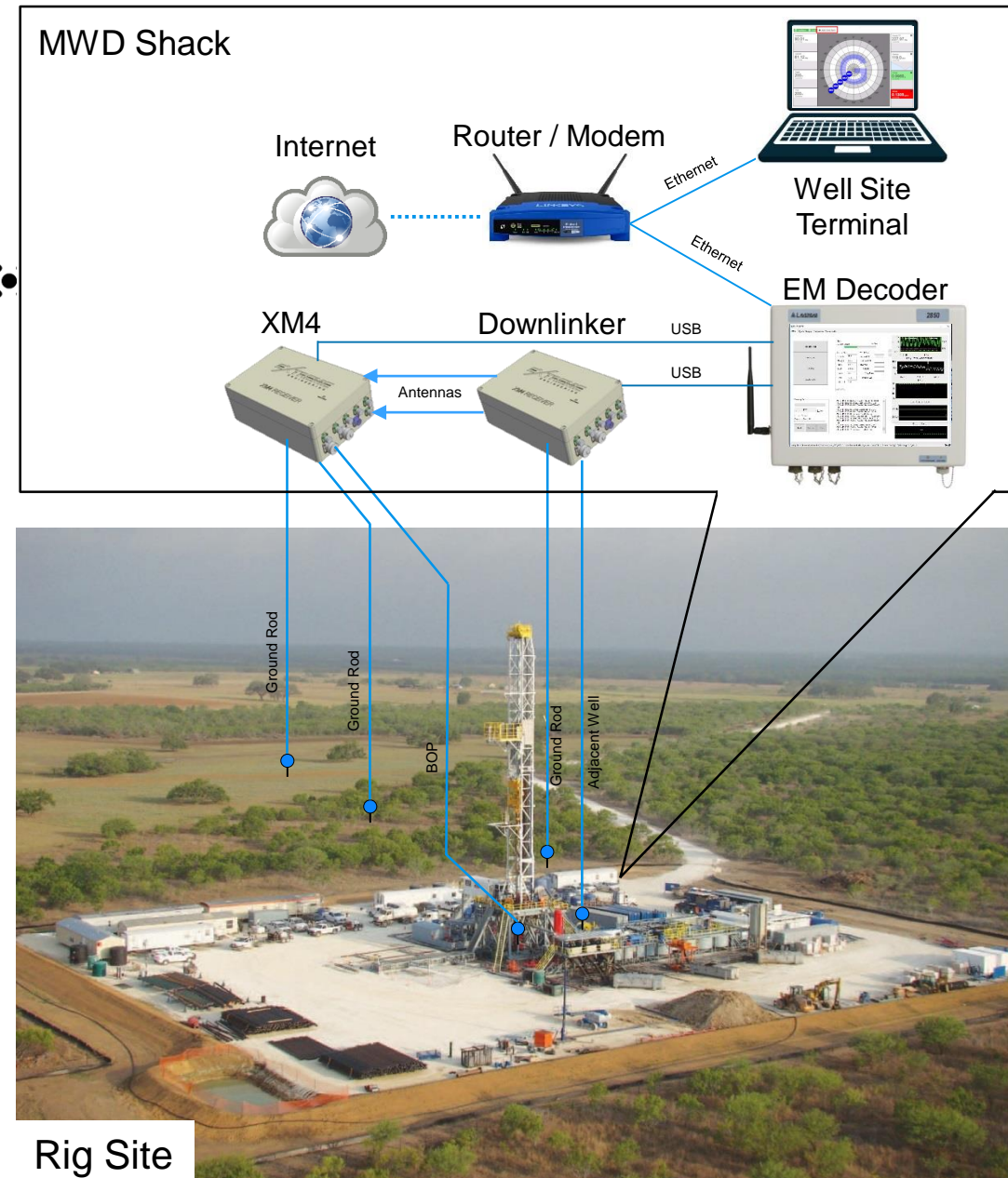
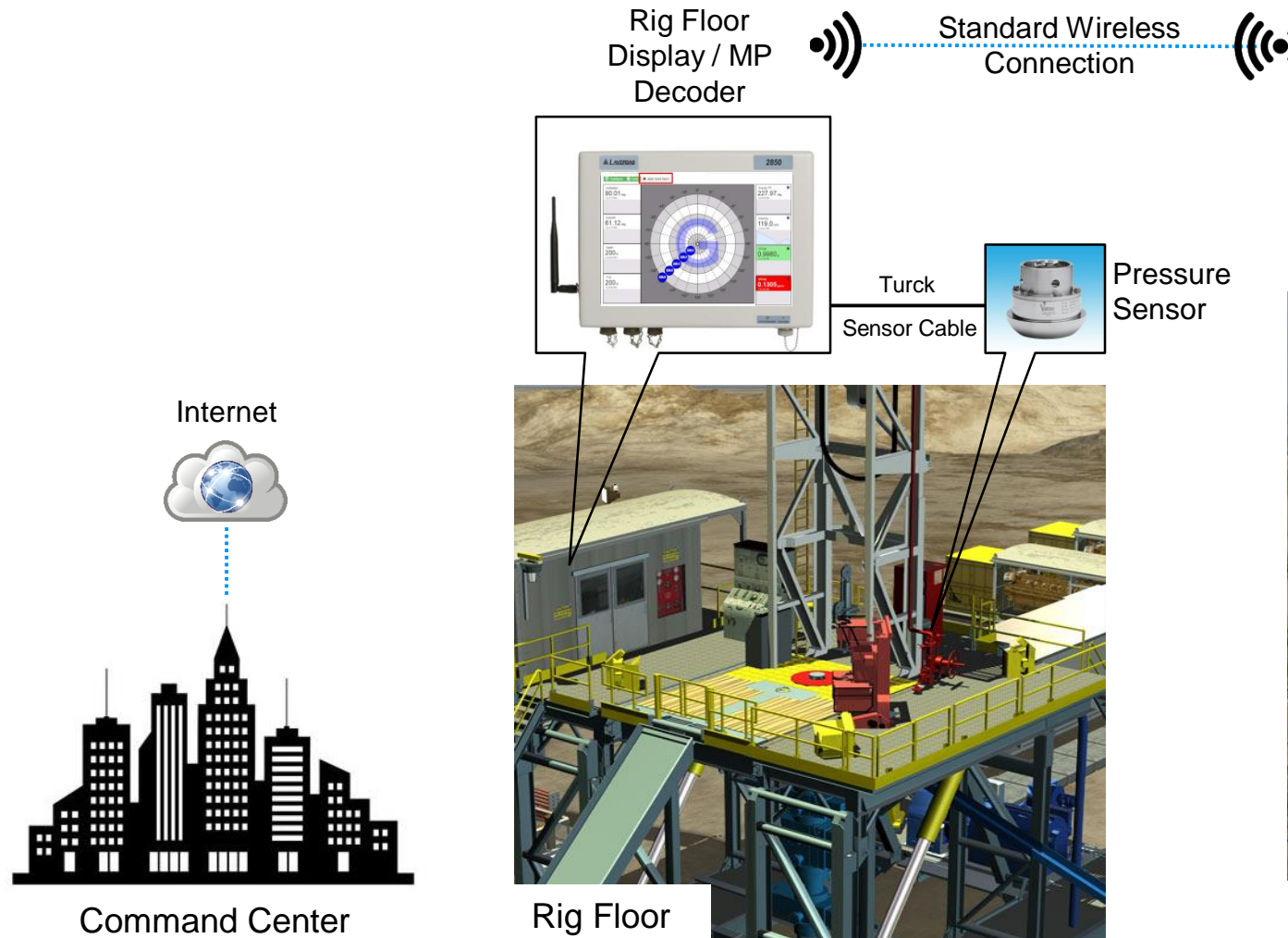
Ground Antenna  
(02JIGS0008)



Turck Sensor Cable  
(777-94508)



# xBolt Rig Up



# Summary

- Learn how to rig up for tool programming
- Learn how to rig up for bank test
- Learn how to rig up for real time operations