Muster Points

Katy Schlumberger Campus Muster Point Areas

HECE

Bldg A - 2 or 6

Bldg B - 6 or 7 or 8

Bldg C - 4 or 8

Bldg D - 5 or 8

Bldg E - 5 or 8

Bldg F - 5 or 8

Bldg G - 5 or 8

MCE (Dyna-Drill)

Bldg H - 1 or 2 or 3

Rotors - 1 or 3

Stators - 1 or 3

Bearings - 1 or 3

Bldg J - 2 or 3

Bldg K - 2 or 3
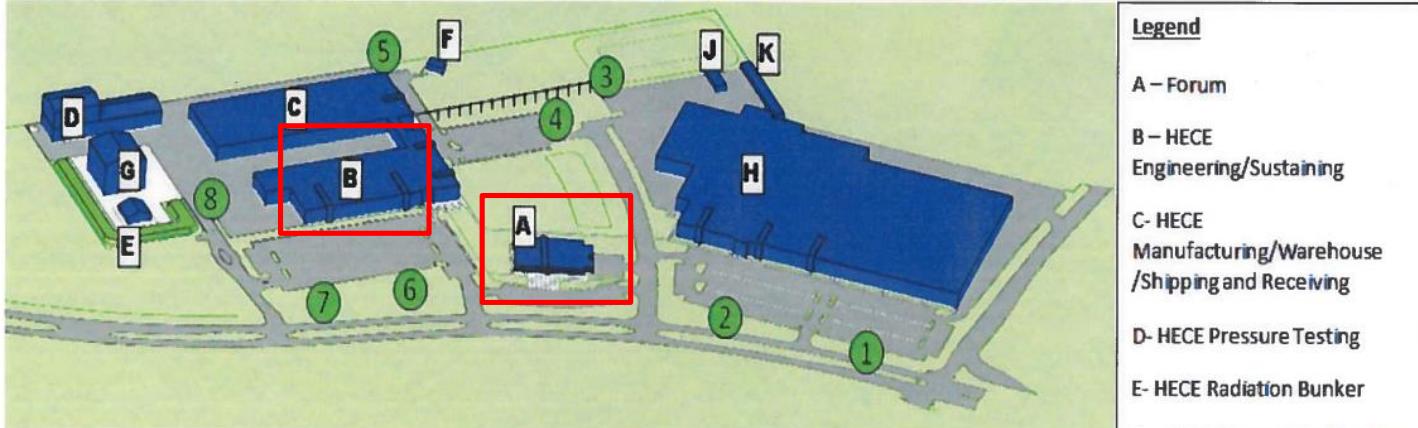
Legend

A – Forum

B – HECE Engineering/Sustaining

C- HECE Manufacturing/Warehouse /Shipping and Receiving

D- HECE Pressure Testing

E- HECE Radiation Bunker

F – HECE Magnetic Calibration

G-HECE Formation Building

H – MCE Rotors/Stators/Bearings

J – MCE

K – MCE

xBolt

Introduction

EXTREME™

HSE

- Crane Bay Operations
  - Steel Toe Boots
  - Safety Glasses
  - Gloves
  - FR Pants/Shirt or Coveralls or Lab Coat

Objectives

- Be able to identify what xBolt is and what measurements it can provide

- Identify main components of xBolt

- Identify minor components of xBolt

- Identify different types of xBolt tool configurations

xBolt Introduction

What is xBolt?

- **Tri-Telemetry MWD Tool**
  - Electromagnetic Telemetry
  - Mud Pulse Telemetry
  - Hybrid Telemetry

- **Measurements**
  - 6 Axis Surveys
  - Continuous D&I
  - Average and Azimuthal Gamma
  - Temperature
  - Tri-Axial Shock and Vibration
  - Stickslip
  - Internal Drillstring Pressure

Major xBolt Components

- **Mud Pulse Pulser Options**
  - MOP
  - xBolt R-Pulser
- **EM Gap Probe**
  - XGP
- **Dual Telemetry Probe**
  - XDT

- **Gamma Probe Options**
  - XGM (XEM Gamma)
  - XDAG
- **Directional Probe Options**
  - XJDI (XEM D&I)
  - XDAG
- **Battery Probe Options**
  - DOBA (XEM Battery)
  - XBT

EXTREME™

Minor xBolt Components

- RSS Communication Probes
  - XHOP
  - Babelfish
- End Termination Options
  - R-Fishing Head
  - XETL
  - End Stabilizer (XEM Termination)
- Field Resizable Centralizers

- Bowsprings
- MOP Interface Probe
- Realtime Extensions
- EM Fishing Head
- xBolt Muleshoe Sleeve
- Connector Housing

Types of xBolt Tool Strings – xBolt R DT

DOBA   XJDI   DOBA   XGM   XDT   xBolt-R Pulser

R-Fishing Head   Bow Spring   XGP

XDAG   XBT   Bow Spring   XGP

R-Fishing Head   XDT   xBolt-R Pulser

UPHOLE

DOWNHOLE

Types of xBolt Tool Strings – xBolt R MP

DOBA XJDI DOBA XGM XDT xBolt-R Pulser

R-Fishing Head

XDAG XBT XDT xBolt-R Pulser

R-Fishing Head

UPHOLE

DOWNHOLE

Types of xBolt Tool Strings – xBolt L DT

MOP   XGP w/ bow spring   XJDI   DOBA   XGM   DOBA   End Stabilizer

MOP Interface Probe   XDT

MOP Interface Probe   XDT   XBT   XDAG

MOP   XGP w/ Bow Spring   XETL

UPHOLE

DOWNHOLE

Types of xBolt Tool Strings – xBolt L MP

UPHOLE

DOWNHOLE

Types of xBolt Tool Strings – xBolt EM

XGP w/ bow spring   XJDI   DOBA   XGM   DOBA   End Stabilizer

EM Fishing Head   XDT

XGP w/Bow Spring   XBT   XDAG   XETL

EM Fishing Head   XDT

UPHOLE

DOWNHOLE
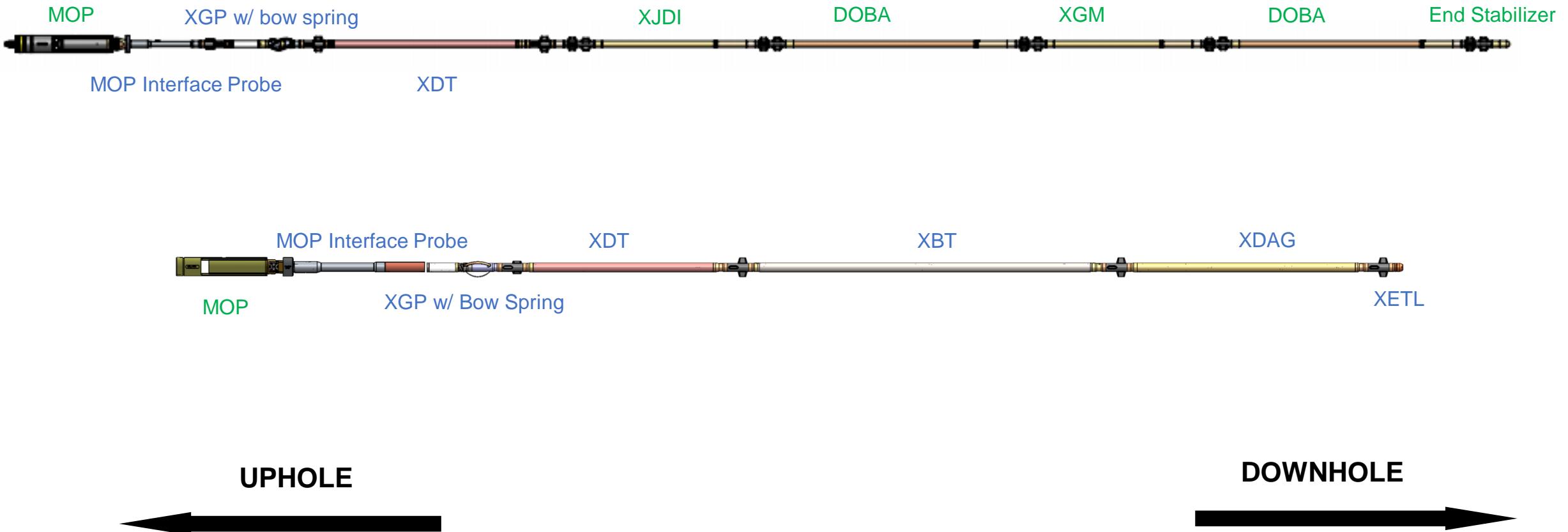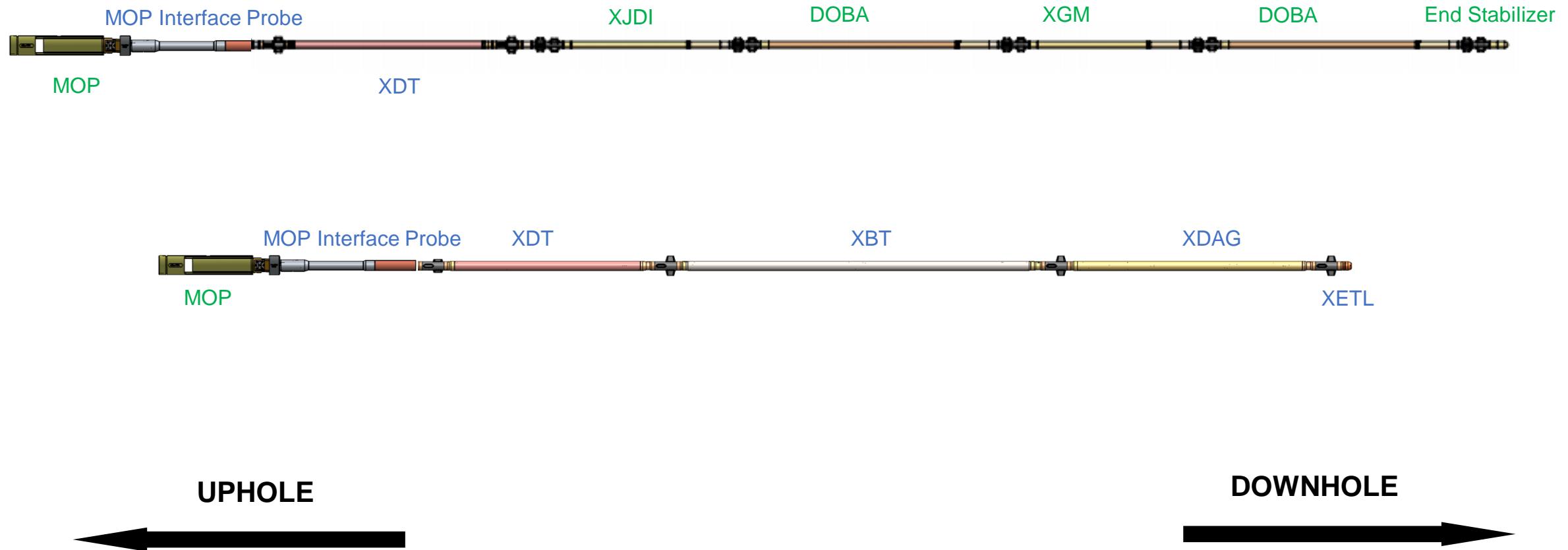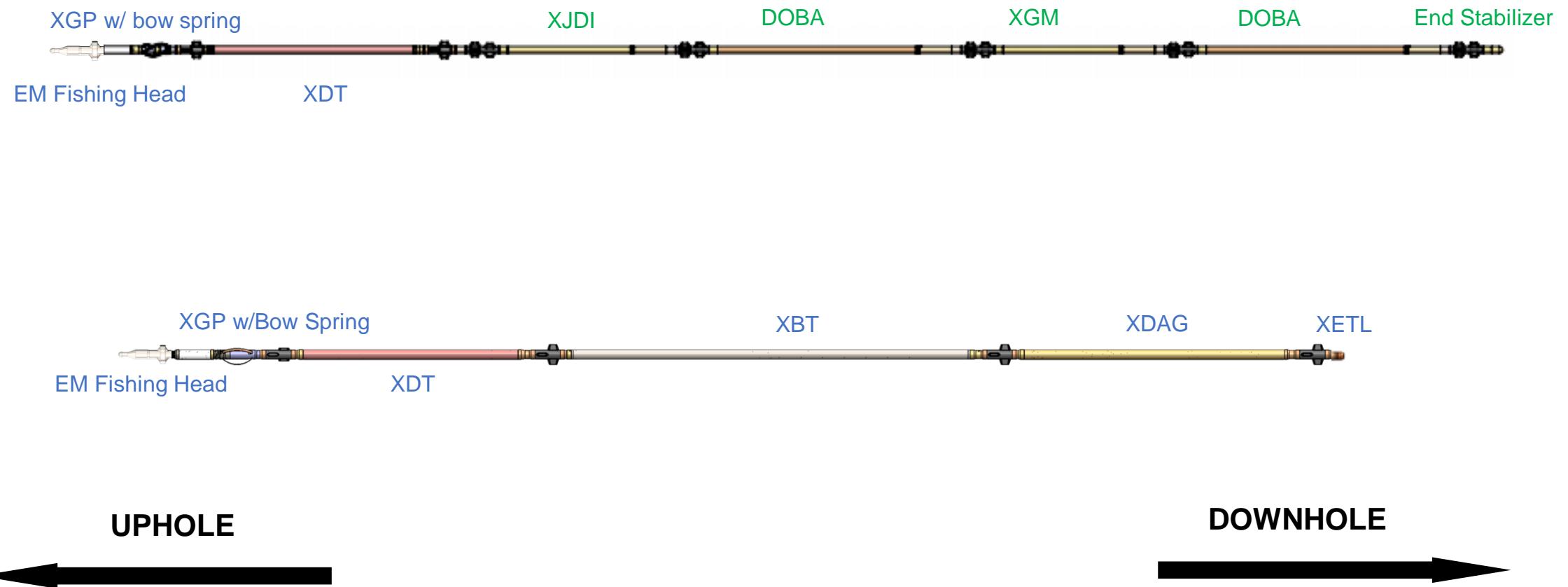
Summary

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- xBolt reference page: [7095093](#)