

## CONVENTIONAL CORING

Foothills Resource Services (formerly Foothills Diamond Coring), has been providing comprehensive coring services and equipment for over 50 years. This experience provides unsurpassed expertise in the coring industry, whether it is in the field cutting core, or in the design and manufacturing of coring equipment.

Foothills is focused on coring with maximum rates of penetration, full core recoveries and cutting the highest quality core samples to bring value to all of our clients.

Foothills has completed thousands of coring projects both onshore and offshore all around the globe in conventional oil plays, enhanced recovery projects, geothermal, mineral wells in addition to the more recent unconventional gas shales and heavy oil plays.



## Equipment

Foothills Resource Services provides standardized parts to allow flexibility and easy exchange of parts, especially in the field. Barrels are machined to exact standards and utilize 4140, P110 HTSR steel for maximum durability. Stabilizers are designed with spiral blades integral to the steel bodies to ensure maximum stability and to prevent problems associated with weld-on type blades.

### P2500 Coring System

- Proven and Reliable
- Available in world standard sizes
- Many different bit, inner tube and catcher configurations to customize it for conditions
- Low invasion compatible
- Capable of cores up to 27M in length on double or triple rigs

### X2500 Coring System

- Newest technology as an update on the P2500 series
- Longer stabilizers for enhanced drilling
- Features an externally adjustable safety joint
- Faster and more accurate shoe to bit clearance setting
- Capable of cores 54+M in length on a single run on any rig depending on lithology
- Available High Torque models for deep hole or marine use
- Capable of cutting core horizontally

### Inner Tubes

- Conventional Steel
- Aluminum Inner Tube
- Fluted Aluminum
- Thin walled aluminum sleeves
- PVC Sleeve
- Fiberglass Inner Tube
- Fiberglass Sleeved
- Pressure Venting available on request

### Catchers

Catcher systems are recognized as an integral part of capturing full and quality samples. Foothills has different configurations of these basic designs that are matched to the lithology anticipated.

- Split Ring
- Basket
- Collet
- Slip and Dog
- Mechanical Finger
- Scribe (Oriented Coring Applications)

### CATCHERS BY LITHOLOGY

	Very Soft	Soft	Medium Soft	Medium Hard	Hard	Very Hard
Split Ring	X	X	X	X	X	X
Basket	X	X	X			
Collet				X	X	X
Slip and Dog				X	X	X
Finger	X	X	X			
Scribe			X	X	X	X

## Core Bits

Foothills exclusive bit designs are based on decades of coring experience. The low invasion styles minimize the washing and contamination of a core by diverting the fluids away from the core from the moment of cutting.

For most formations a PDC core head is used to gain the highest ROP's possible. In very hard formations Foothills utilizes natural surface set and impregnated diamond core bits. The unique design allows for maximum core recovery and ROP. Only the highest quality synthetic or natural diamonds are used and they are distributed evenly maximizing the concentration of diamonds throughout the core head.

	Friable / Highly Unconsolidated	Very Soft	Soft	Medium Soft	Medium Hard	Hard	Very Hard
WC-46					X	X	
WC-48						X	X
611PDC	X	X	X	X	X		
613PDC	X		X	X	X	X	
619PDC				X	X	X	
808PDC	X	X	X	X			
811PDC	X		X	X	X		

## Service

Foothills' Coring Supervisors are an integral piece of any coring project. Foothills employs Coring Supervisors with knowledge gathered around the world, many of whom have over 30 years coring experience. With such experience, Foothills can deliver outstanding results with confidence, maximizing safety and value.