Coking & CatCracking Safety Seminar, Galveston, TX, May 2013

Safe, Automated, Pet Coke Dewatering
Antiquated Dewatering Screen Technology
Old Screen Technology
Incorporating Brute Force Drives
Star-Stop
Transient Response
Initial GKC Lab Work
GKC Lab Dewatering
Uncrushed Shot Coke

MCWB vs Length of Run, Uncrushed Shot Coke

- MCWB, %
- Length of Run, FT
Crushed Sponge Coke

Moisture Content vs Length of Run

- Moisture Content, % WB
- Length of Run, FT

The graph shows the relationship between moisture content and length of run for Crushed Sponge Coke. The moisture content decreases as the length of run increases.
Savage Port Arthur
PabTex Field Work
Savage PabTex Sluiceway
Slurry Feed Simulation
Savage El Dorado Production Unit in GKC Shop
DEWATERING DECK
Material Bridge Formation

Reactive inertial coke bed forces form a bridge

Free Water Drainage
GKC Non-Blinding, Patented Dewatering Deck Construction
GKC Natural Frequency Technology
Rotating Unbalance Drive
Soft, Low Frequency Vibration Isolation Springs
Stationary, Track Mounted, or Carriage Car Arrangements
El Dorado Field Demonstration
Savage El Dorado Production
Hot/Burning Coke Upset
Feed Surges
Non-Blinding Deck
Pit Side Clamshell
Dewatering, Beaumont
TX
Overhead Grid & Hopper
Dewatered Pet Coke to Crusher
Crushed Pet Coke to Pivoting Transfer Belt Conveyor
Separated Water Returned to Pit
Powered Rail Mounted Traversing Carriage
Sluiceway Slurry Feed
Benefits

• Safety

• Minimize Coke Handling

• Minimize Personnel Requirements