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Safe, Automated, Pet Coke Dewatering

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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
Sluiceway Slurry Feed
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
Parameter vs Time, 10/30 First Cut

- TPH/1000
- FB %/100
- DW1 Amps/10
- TPH Design
- FLA/10
- Feed MCWB Decimal %
- Dischg MCWB Decimal %
- Design Feed MCWB Decimal %
Hot/Burning Coke
Upset
Feed Surges
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
Benefits

• Safety
• Minimize Coke Handling
• Minimize Personnel Requirements