

# ELGIN

## Apex 19™ Decanter Centrifuge Case Study



Natural Resource Recycling • Product Classification • Dewatering • Fluid Recovery  
Waste Management • Material Handling • Liquid/Solid Separation • Crushers • Feeders

**TERRASOURCE**  
GLOBAL

OUR FLAGSHIP BRANDS



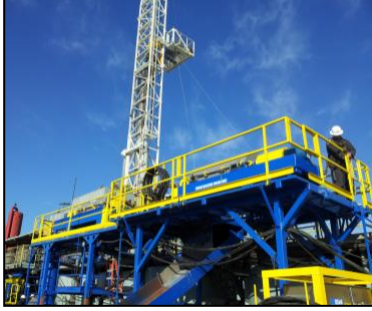
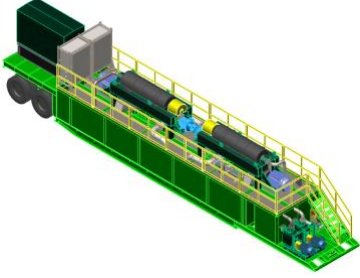
**GUNDLACH**  
CRUSHERS

**JEFFREY RADER**

**Pennsylvania**  
Crusher

**ELGIN**



Case Study	Number 1	Number 2	Number 3	Number 4
<b>Industry</b>	Oil & Gas	Oil & Gas	Oil & Gas	Oil & Gas
<b>Application</b>	Oil-Based Drilling Fluids Reclamation	Oil-Based Drilling Fluids Preparation Facility	Oil-Based Horizontal Drilling Fluid Solids Control	Casing (“Top Hole”) Drilling Fluid Solids Control
<b>Location</b>	South Texas, USA	South Texas, USA	West Texas, USA	North Dakota, USA
<b>Configuration</b>	Mobile Apex 19™ Integrated Treatment Package	Mobile Apex 19™ Integrated Treatment Package	Tandem Apex 19™ High Speed Barite Recovery and Solids Control Centrifuges	Mobile Apex 19™ Integrated Treatment Package Mated with an Elgin Primary Treatment System
<b>Application Image</b>				
<b>Objective</b>	Reduction of Oil-Based Mud Weight in Order to Achieve a Marketable Resale Drilling Fluid	Preparation of Oil-Based Drilling Fluids Meeting Customer Specified Weight	Management of Oil-Based Rig Drilling Fluid and Recovery of Barite for Return to the Active Mud System	Management of Drilling Fluid with an Integrated Polymer Feed System for Water-Based Drilling Fluid
<b>Results</b>	Elgin’s mobile Apex 19™ XP Polisher has now been deployed on four different mobile oil-based mud plants and has successfully processed all facility’s waste drilling fluids making the fluid available for resale. To date, more than 92,500 barrels of waste drilling fluid has been processed for resale. Processing flow rates in excess of 200 gallons per minute.	Application of Elgin’s Apex 19™ centrifuge within the mud plant has allowed for continuous classification of drilling fluid in order to meet customer specified mud weights. Mud weights from 9.8 to 16.0 ppg have been processed for sale at processing flow rates ranging from 250 to 100 gallons per minute.	Elgin’s Apex 19™ centrifuges have been successfully deployed on 6 different wells in which the Low Gravity Solids target of 7.0 has been successfully achieved on a consistent basis at or below 6.7. Centrifuges are continuously operated with 14 ppg mud at feed rates up to 175 gpm. Application of Elgin’s Apex 19™ centrifuges has resulted in a 41% reduction in the maintenance costs in comparison to the previous centrifuges deployed.	Elgin’s Dual Apex 19™ Mobile XP Polisher has allowed for the full recycling of water in order to create a closed-loop drilling fluid system. Application of system on 12.4 ppg mud at a flow rate of 165 gpm. Has resulted in \$1,200 in raw water savings per well.