Vacuum-Feed Vertical Cuttings Dryer Simplifies Operations, Saves Costs

**BARAG-FORCE™ SYSTEM SAVES OPERATOR MORE THAN USD 25K PER WELL IN SHALE PLAY**

**BAKKEN FORMATION**

### CHALLENGE

Improve a costly, complicated drilling waste management process by:

- Eliminating vacuum trucks and augers
- Maximizing OBM recovery

### SOLUTION

BaraG-Force™ VacVCD system, a vacuum-enhanced vertical cuttings dryer (VCD) for onsite cuttings and OBM handling, enabling the operator to:

- Feed VCD directly from shakers
- Clean pits prior to displacements

### RESULTS

Baroid received a 100 percent work award for the BaraG-Force VacVCD system, based on the following results:

- Saved USD 7,500 in vacuum truck costs
- Gained USD 5,000 in OBM recovered from pits
- Gained USD 25,000 in OBM due to low mud retention on cuttings

### USING VACUUM TRANSPORT FOR WASTE AND CUTTINGS STREAMLINES OPERATION

Baroid separation solutions personnel deployed the BaraG-Force™ VacVCD system, a vacuum-based method for feeding the VCD unit where cuttings were vacuumed directly to the VCD. This helped accomplish several objectives:

- End dependence on vacuum trucks for pit cleaning during displacements
- Eliminate the use of augers and a loader/excavator to move wet cuttings
- Maximize OBM recovery

Implementing this efficient way of feeding the VCD allowed the operator to experience additional cost benefits when using the BaraG-Force VacVCD system, because of its ability to lower retention on cuttings and return more OBM to the active system.
COST BENEFITS SECURE BARAG-FORCE INSTALLATION ON EIGHT ADDITIONAL RIGS

The savings and returns gained from using the BaraG-Force VacVCD system impacted several parts of the operator’s waste management process, resulting in:

» Average USD 7,500 saved per well in eliminated rig vac and vac truck costs
» Average USD 5,000 gained per well in pit bottom OBM recovery
» Total USD 25,000 gained per well in OBM recovered from cuttings while drilling

Based on these results, the operator requested the BaraG-Force VacVCD system for eight more of its rigs in the Bakken shale play.