



**“the ONLY fluid
currently on the
market that alleviates
ALL operational
challenges**



Pulling Out Mud Motor

Tar sands

Drilling for heavy oil poses particular challenges such as: tar accretion; high torque & drag; borehole stability; mud foaming; high waste disposal and clean-up costs.

The PolyTar™ System, a patented technology, was specifically designed to meet these challenges. PolyTar™ is a naturally-formed direct emulsion in a fresh-water polymeric phase. Due to its unique design it is the ONLY fluid currently on the market that alleviates ALL operational challenges while allowing for on-site disposal of both liquid waste (pump-off) and solid waste/cuttings (MBC).

As drilling progresses into the tar sands, the fluid separates most of the tar from the sand at the shakers. The sand is further cleaned to a trace of oil and via the centrifuges.

After multi-well re-use, the fluid can be broken into its components in both static (sump) and dynamic (de-water) conditions for easy disposal.

Applications:

- SAGD and SR wells in tar sands
- Horizontal wells, SAGD and SR wells in heavy oil sands and sandstones

Benefits:

- Completely alleviates accretion
- Completely alleviates foaming
- Completely alleviates mud related NPT
- Re-usable
- Allows finer mesh shaker screens to be used and increases screen life
- Accommodates both static and dynamic oil/water separation
- The ONLY environmentally friendly fluid that allows for on-site disposal of both liquid (water) and solid (cuttings) phases
- Very economical

PolyTar™ System

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PolyTar™ System



PolyTar™ is a non-accreting system. Ribbons of tar flow freely over shaker screens and are removed from the drilling fluid circulating system.



On the secondary shakers, the screens are even finer eliminating a greater percentage of the bitumen laden sand.



The PolyTar™ system prevents the accretion of bitumen on the drill string.



Centrifuge underflow can be set to be as dry or as wet as the operator desires. A wetter underflow will contain less oil on cuttings allowing for easier disposal and greater effectiveness at removal of solids.

	Project Average	Best Case
Well Depth	1,078 m	1,140m
Drill Out to TD	3.9 days	2.2 days
Drill Out to RR	6.6 days	5.3 days
RR to Drill Out	1.3 days	0.9 days
Scalping Shakers	210/175/145	210/175/175
Secondary Shakers	210/210/145	210/210/180
Flow Line		
Temperature	21°C	22°C
LT on Mud		
Foaming	0 hrs	0 hrs
Used Defoamers/ Biocides	0 pails	0 pails
Pro-Rated Mud Cost	\$26,500	\$18,000
Pro-Rated Mud Cost/m	\$24.50	\$15.80
Saving Tip #1 – mud re-used for 4 consecutive wells		
Saving Tip #2 – tank cleaning time reduced from 17 hrs to 15 min		
Saving Tip #3 – extended shaker screens life 4 to 99 times		



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