



Well 697-16-42A API 05-045-17607-00 9-5/8" Surface Casing Cement Job

On 25 January 2010 Oxy ran and cemented 9-5/8" surface casing set at 2714' MD shoe depth. Prior to the cement job 350 barrels of mud were circulated with no returns to surface. Two cement slurries consisting of 1300 sacks, 540 barrels of 12.3 ppg lead cement and 125 sacks, 46 barrels of 12.8 ppg tail cement were pumped and displaced with 208 barrels of fresh water, with no returns to surface. Final recorded lift pressure of 280 psi indicates a estimated calculated lift height of 2012'. The primary cement job was followed by a top-out job pumped through a 60' long, 1" diameter line run down the casing annulus. A three stage total of 117 barrels, 385 sacks of 14 ppg cement was pumped down the backside during the top-out job, until cement returned to surface with no fall-back.

Well 697-16-42A  
API 05-045-17607-00  
Hole size 14.75"  
Casing Size 9.625  
Shoe Depth 2714'  
Lift Psi 280  
Lead Cement 1300 sxs 2.33 yield 12.3 ppg  
Tail Cement 125 sxs 2.07 yield 12.8 ppg  
Top Out Cement 385 sxs 1.78 yield 14.0 ppg  
3 bbl Cement to surface

