



Cement

Well Name: LaSalle 25G-402

Cement

Surface Casing Cement, Casing, 12/31/2013 10:45

| | | | | | | | | |
|----------------|------------------------------|--------------------------|----------------------------------|---------------------------|--|--------------------------------|------------------|-----------------------------------|
| Type Casing | String Surface, 929.0ftKB | Start Date 12/31/2013 | Cementing End Date 12/31/2013 | Wellbore Original Hole | Job Drilling - original, 12/30/2013 06:00 | Cementing Company Cementers | Cement Objective | Eval Method Returns to Surface |
|----------------|------------------------------|--------------------------|----------------------------------|---------------------------|--|--------------------------------|------------------|-----------------------------------|

Cement Stages

| | | | | | | | | | | | | | | | | |
|----------------------------------|--------------------------------------|--------------------------------|----------------|-------------------------|--------------------|------------------------------------|-----------------------------------|------------------------------|-------------------------------|--|-----------------------------|---------------|---------------------|-----------------------------|-------------------|---------------------|
| Stg # 1 | Description Surface Casing Cement | | | | Objective | | Top Depth (ftKB) 15.0 | Bottom Depth (ftKB) 929.0 | Pump Start Date 12/31/2013 | | Pump End Date 12/31/2013 | | Top Plug? Yes | Btm Plug? No | | |
| Initial Pump Rate (bbl/min) 4 | | Final Pump Rate (bbl/min) 5 | | Avg Pump Rate (bbl/min) | | Final Pump Pressure (psi) 350.0 | Plug Bump Pressure (psi) 800.0 | | Pressure Held (psi) | | Pressure Release Date | | Full Return? Yes | Vol Cement Ret (bbl) 8.0 | Volume Lost (bbl) | |
| Recip? No | Stroke (ft) | Recip Rate (...) | Rotat... No | RPM (rpm) | Pipe Movement Note | | | MD Tagged (...) | Tag Method | | Tag Wt (100... | Prop... No | Depth Plug... | Tag Cement Date | Drill Out Date | Drill Out Dia (...) |

Cement Fluids

| Fluid | Est Top (ftKB) | Est Btm (ftKB) | Pump Start Date | Pump End Date | Class | Amount (sacks) | Mix H2O Ratio (gal/sack) | Yield (ft³/sack) | Vol Pumped (bbl) | Excess (%) | Dens (lb/gal) |
|-------|----------------|----------------|-----------------|---------------|-------|----------------|--------------------------|------------------|------------------|------------|---------------|
| Tail | 15.0 | 929.0 | 12/20/2013 | | G | 830 | | 1.18 | 174.4 | 100.0 | 15.20 |

Intermediate Casing Cement, Casing, 1/5/2014 03:00

| | | | | | | | | |
|----------------|-------------------------------------|------------------------|--------------------------------|---------------------------|--|---------------------------------------|------------------|---------------------------|
| Type Casing | String Intermediate, 7,363.0ftKB | Start Date 1/5/2014 | Cementing End Date 1/5/2014 | Wellbore Original Hole | Job Drilling - original, 12/30/2013 06:00 | Cementing Company Sanjel (USA) Inc | Cement Objective | Eval Method Calculated |
|----------------|-------------------------------------|------------------------|--------------------------------|---------------------------|--|---------------------------------------|------------------|---------------------------|

Cement Stages

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|----------------------------------|---|--------------------------------|--|------------------------------|-----------|--------------------------------------|--------------------------|-------------------------------------|-----------------------------|---------------------|---------------------------|-----------------------|------------------|---------------------|-----------------------------|-------------------|----------------|---------------------|
| Stg # 1 | Description Intermediate Casing Cement | | | | Objective | | Top Depth (ftKB) 15.0 | Bottom Depth (ftKB) 7,363.0 | Pump Start Date 1/5/2014 | | Pump End Date 1/5/2014 | | Top Plug? Yes | Btm Plug? No | | | | |
| Initial Pump Rate (bbl/min) 3 | | Final Pump Rate (bbl/min) 2 | | Avg Pump Rate (bbl/min) 3 | | Final Pump Pressure (psi) 1,000.0 | | Plug Bump Pressure (psi) 1,750.0 | | Pressure Held (psi) | | Pressure Release Date | | Full Return? Yes | Vol Cement Ret (bbl) 8.0 | Volume Lost (bbl) | | |
| Recip? No | Stroke (ft) | Recip Rate (...) | | Rotat... No | RPM (rpm) | Pipe Movement Note | | | MD Tagged (...) | | Tag Method | | Tag Wt (100... | Prop... No | Depth Plug... | Tag Cement Date | Drill Out Date | Drill Out Dia (...) |

Cement Fluids

| Fluid | Est Top (ftKB) | Est Btm (ftKB) | Pump Start Date | Pump End Date | Class | Amount (sacks) | Mix H2O Ratio (gal/sack) | Yield (ft³/sack) | Vol Pumped (bbl) | Excess (%) | Dens (lb/gal) |
|-------|----------------|----------------|-----------------|---------------|---------------|----------------|--------------------------|------------------|------------------|------------|---------------|
| Lead | 15.0 | 5,000.0 | | | 1:1:0 POZ III | 335 | | 2.73 | 162.9 | | 11.50 |
| Tail | 5,000.0 | 7,363.0 | | | 1:1:2 G | 300 | | 1.42 | 75.9 | | 14.60 |