



Cement

Well Name: Ram Land 30K-243

Cement

Surface Casing Cement, Casing, 5/5/2014 04:00

Type Casing	String Surface, 926.0ftKB	Start Date 5/5/2014	Cementing End Date 5/5/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Surface Casing Cement	Objective	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 926.0	Pump Start Date 5/5/2014	Pump End Date 5/5/2014	Top Plug? Yes	Btm Plug? No					
Initial Pump Rate (bbl/min) 4	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 4	Final Pump Pressure (psi) 400.0	Plug Bump Pressure (psi) 1,000.0	Pressure Held (psi) 0.0	Pressure Release Date	Full Return? Yes	Vol Cement Ret (bbl) 6.0	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 (ft ³ /sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	200.0	5,000.0	2/7/2013		Prem Lite	300		2.99			11.20
Tail	5,000.0	7,706.0			50/50 Poz	315		1.38			14.60

Intermediate Casing Cement, Casing, 5/12/2014 07:30

Type Casing	String Intermediate, 7,073.0ftKB	Start Date 5/12/2014	Cementing End Date 5/12/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Intermediate Casing Cement	Objective	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 7,073.0	Pump Start Date 5/12/2014	Pump End Date 5/12/2014	Top Plug? Yes	Btm Plug? No					
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 5	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 1,518.0	Plug Bump Pressure (psi) 1,966.0	Pressure Held (psi) 0.0	Pressure Release Date	Full Return? Yes	Vol Cement Ret (bbl) 0.0	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 (ft ³ /sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	200.0	5,000.0	2/7/2013		Prem Lite	298		2.99			11.20
Tail	5,000.0	7,073.0			50/50 Poz	218		1.38			14.60

Cement Plug, Plug, 5/19/2014 07:30

Type Plug	String Intermediate, 7,073.0ftKB	Start Date 5/19/2014	Cementing End Date 5/19/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method
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Cement Stages

Stg # 1	Description Intermediate Casing Cement	Objective	Top Depth (ftKB) 6,683.0	Bottom Depth (ftKB) 6,950.0	Pump Start Date 5/19/2014	Pump End Date 5/19/2014	Top Plug? No	Btm Plug? No					
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)	Pressure Held (psi)	Pressure Release Date	Full Return? No	Vol Cement Ret (bbl)	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 (ft ³ /sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	6,650.0	6,950.0	5/19/2014	3/28/2014		50					

Cement Plug, Plug, 5/19/2014 07:30

Type Plug	String Intermediate, 7,073.0ftKB	Start Date 5/19/2014	Cementing End Date 5/19/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method
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Cement Stages														
Stg #	Description			Objective	Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btn Plug?	Initial Pump Rate (bbl/min)			Final Pump Rate (bbl/min)
1	Cement Plug				3,104.0	4,300.0	5/19/2014	5/19/2014	No	No				
Recip?	Stroke (ft)	Recip Rate (...)	Rotat...	RPM (rpm)	Pipe Movement Note	MD Tagged (...)	Tag Method	Tag Wt (100...)	Prop...	Depth Plug...	Tag Cement Date	Drill Out Date	Drill Out Dia (...)	
No			No						No					

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	3,600.0	4,300.0	5/19/2014	5/19/2014		150							

Cement Plug, Plug, 5/19/2014 07:30

Type Plug	String Intermediate, 7,073.0ftKB	Start Date 5/19/2014	Cementing End Date 5/19/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method
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Cement Stages														
Stg #	Description			Objective	Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btn Plug?	Initial Pump Rate (bbl/min)			Final Pump Rate (bbl/min)
1	Cement Plug				850.0	1,050.0	5/19/2014	5/19/2014	No	No				
Recip?	Stroke (ft)	Recip Rate (...)	Rotat...	RPM (rpm)	Pipe Movement Note	MD Tagged (...)	Tag Method	Tag Wt (100...)	Prop...	Depth Plug...	Tag Cement Date	Drill Out Date	Drill Out Dia (...)	
No			No						No					

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	850.0	1,050.0	5/19/2014	5/19/2014		50							

Cement Plug, Plug, 5/19/2014 07:30

Type Plug	String Surface, 926.0ftKB	Start Date 5/19/2014	Cementing End Date 5/19/2014	Wellbore Original Hole	Job Drilling - original, 5/4/2014 10:00	Cementing Company Baker Hughes	Cement Objective	Eval Method
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Cement Stages														
Stg #	Description			Objective	Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btn Plug?	Initial Pump Rate (bbl/min)			Final Pump Rate (bbl/min)
1	Cement Plug				13.0	200.0	5/19/2014	5/19/2014	No	No				
Recip?	Stroke (ft)	Recip Rate (...)	Rotat...	RPM (rpm)	Pipe Movement Note	MD Tagged (...)	Tag Method	Tag Wt (100...)	Prop...	Depth Plug...	Tag Cement Date	Drill Out Date	Drill Out Dia (...)	
No			No						No					

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	13.0	38.0	5/19/2014	5/19/2014		10							

