



Cement

Well Name: Anschutz Eq Farms 03-62-04-2532XCXN

Intermediate Casing Cement

Well Name Anschutz Eq Farms 03-62-04-2532XCXN	API 05-123-46020-___	Excalibur ID 19813	Operator HighPoint Resources	Current Well Status Producing	Government Authority
Well Configuration Type Horizontal	Original KB Elevation (ft) 4,632.60	Ground Elevation (ft) 4,612.60	KB-Ground Distance (ft) 20.00	Regulatory Drilling Spud Date 12/4/2017 08:00	Regulatory Rig Release Date 12/12/2017 06:00
Surface Legal Location CE2 Section 4-T3N-R62W	North/South Distance (ft) 2,580.0	North/South Reference FSL	East/West Distance (ft) 325.0	East/West Reference FEL	Lat/Long Datum
Latitude (°)	Longitude (°)	Basin DJ Basin	Field Name Briggsdale	County Weld	State/Province Colorado

Cement Details

Description Intermediate Casing Cement	String Intermediate, 6,648.0ftKB	Type Casing	Cementing Start Date 12/6/2017 22:15	Cementing End Date 12/7/2017 00:15	Cementing Company BJ
Job Category	Wellbore Re-Drill	Evaluation Method Returns to Surface	Cement Evaluation Results 20 BBLS CD SPACER TO SURFACE	Technical Result Success	Cementing Supervisor

Comment
20 BBLS CEMENT TO SURFACE

Cement Stages

Stage # 3								
Stage Number 3	Description INTERMEDIATE CASING CEMENT	Objective CEMENT INTERMEDIATE CASING	Top Depth (ftKB) 840.0	Bottom Depth (ftKB) 6,648.0	Full Return? Yes	Vol Cement Ret (bbl) 20.0	Top Plug? No	Bottom Plug? Yes
Q Pump Init (bbl/min) 5	Q Pump Final (bbl/min) 3	Q Pump Avg (bbl/min) 5	P Pump Final (psi) 1,600.0	P Plug Bump (psi) 2,200.0	Pipe Reciprocated? No	Stroke (ft)	Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (ftKB) 6,599.0	Tag Method Drill Bit	Top Measurement Method Volume Calculations				Depth Plug Drilled Out To (ftKB) 6,601.0	Drill Out Diameter (in) 6 1/8	

Comment

Cement Fluids & Additives

Fluid							
Fluid Type FW SPACER	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class FRESH WATER	Volume Pumped (bbl) 20.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.35	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives							
Add	Type			Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type CD SPACER	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class CD SPACER	Volume Pumped (bbl) 20.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 11.00	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives							
Add	Type			Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type LEAD CEMENT	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks) 384	Class TYPE 3	Volume Pumped (bbl) 141.5	
Yield (ft³/sack) 2.07	Mix H2O Ratio (gal/sack) 11.83	Free Water (%)	Density (lb/gal) 12.50	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives							
Add	Type			Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type TAIL CEMENT	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks) 262	Class G	Volume Pumped (bbl) 53.7	
Yield (ft³/sack) 1.15	Mix H2O Ratio (gal/sack) 4.98	Free Water (%)	Density (lb/gal) 15.80	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives							
Add	Type			Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type DISPLACEMENT	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class FRESH WATER	Volume Pumped (bbl) 260.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.35	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives							
Add	Type			Amount	Amount Units	Conc	Conc Unit



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Surface Legal Location CE2 Section 4-T3N-R62W	North/South Distance (ft) 2,580.0	North/South Reference FSL	East/West Distance (ft) 325.0	East/West Reference FEL	Lat/Long Datum
Latitude (°)	Longitude (°)	Basin DJ Basin	Field Name Briggsdale	County Weld	State/Province Colorado

Cement Stages

Stage # 4								
Stage Number 4	Description PRODUCTION LINER	Objective CEMENT PRODUCTION LINER	Top Depth (ftKB) 6660.0	Bottom Depth (ftKB) 16,365.0	Full Return? Yes	Vol Cement Ret (bbl) 26.0	Top Plug? Yes	Bottom Plug? Yes
Q Pump Init (bbl/min) 5	Q Pump Final (bbl/min) 3	Q Pump Avg (bbl/min) 4	P Pump Final (psi) 2,100.0	P Plug Bump (psi) 2,600.0	Pipe Reciprocated? No	Stroke (ft)	Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (ftKB)		Tag Method		Top Measurement Method Volume Calculations		Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)
Comment								

Cement Fluids & Additives

Fluid							
Fluid Type FRESH WATER SPACER	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class FRESH WATER SPACER	Volume Pumped (bbl) 10.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.35	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives					
Add	Type	Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type WEIGHTED SPACER	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class WEIGHTED SPACER	Volume Pumped (bbl) 20.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 11.00	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives					
Add	Type	Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type LEAD CEMENT	Fluid Description	Estimated Top (ftKB) 5,801.0	Est Btm (ftKB) 16,370.0	Amount (sacks) 760	Class G	Volume Pumped (bbl) 215.2	
Yield (ft³/sack) 1.59	Mix H2O Ratio (gal/sack) 7.95	Free Water (%)	Density (lb/gal) 13.50	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives					
Add	Type	Amount	Amount Units	Conc	Conc Unit

Fluid							
Fluid Type FRESH WATER DISPLACEMENT	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class FRESH WATER DISPLACEMENT	Volume Pumped (bbl) 200.0	
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.35	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)	

Additives					
Add	Type	Amount	Amount Units	Conc	Conc Unit