



Casing & Cement Summary

Well Name: HORSETAIL 08D-1704

Well Information

API Number 051234102400				WPC ID 1CO0761188				Field Name Wildcat				KB-Grd (ft) 21.00		Original Spud Date 4/10/2015	
Lot	Quarter 1 NW	Quarter 2 NW	Quarter 3	Quarter 4	Section 8	Township 10	Twnshp... N	Range 57	Rng E/... W	County Weld	State CO	Well Configuration Type Lateral/Horizontal			

Wellbore

Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Lateral/Horizontal		
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Conductor	24	21.0	90.0
Surface	13 1/2	90.0	1,665.0
Intermediate	8 3/4	1,665.0	5,839.0

Casing

Casing Description	OD Nom Max (in)	ID Nom Min (in)	Run Date	Set Depth (ftKB)	Wellbore
Surface Csg	9 5/8	8.921	4/11/2015 23:00	1,649.5	Original Hole
Centralizers	Comment				

Item Des	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	P Collapse (psi)
Landing Joint	36.00	J-55		0	0.00	21.0	21.0	3,450.0
Pup joints / Wellhead	36.00	J-55		1	5.00	21.0	26.0	3,450.0
Casing Joints	36.00	J-55		1	40.90	26.0	66.9	3,450.0
Casing Joints	36.00	J-55	Cement Basket	1	40.88	66.9	107.8	3,450.0
Casing Joints	36.00	J-55		37	1,498.63	107.8	1,606.4	3,450.0
Float Collar	36.00	J-55		1	1.50	1,606.4	1,607.9	3,450.0
Casing Joints	36.00	J-55		1	40.12	1,607.9	1,648.0	2,020.0
Float Shoe	36.00	J-55		1	1.50	1,648.0	1,649.5	

Cement: Surface Casing Cement

Cementing Start Date	Cementing End Date	Cementing Company
4/11/2015	4/12/2015	Baker
Evaluation Method	Cement Evaluation Results	Comment

Cement Stage: Surface Casing Cement

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
21.0	1,649.5	No	15.0	No	Yes
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)	
2	2	5	975.0	1,311.0	
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)	
No			No		
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

Cement Fluid: Surface Casing Cement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Spacer	15 bbls dyed			15.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)	Free Water (%)
21.0	21.0			
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)	

Cement Fluid Additives

Add	Type	Conc

Cement Fluid: Surface Casing Cement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Surface Cement	778 Sacks Type III Cement + 0.08 lbs/sack Static Free + 1 % bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 60.4% Fresh water	778	Type III Cement	194.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)	Free Water (%)
16.8	1,724.3	1.40	6.81	
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)	
14.50				

Cement Fluid Additives

Add	Type	Conc

Cement Fluid: Surface Casing Cement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Displacement	8.4 ppg H2O			124.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)	Free Water (%)
21.0	1,724.3			
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)	
8.40				



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Cement Fluid Additives

Add			Type			Conc		