



# Cement

**Well Name: Hunt Federal 28Y-214**

**Cement**

**Surface Casing Cement, Casing, 11/25/2015 00:15**

Type Casing	String Surface, 932.0ftKB	Start Date 11/25/2015	Cementing End Date 11/25/2015	Wellbore Original Hole	Job Drilling - original, 11/24/2015 01:15	Cementing Company Cementers Well Service Inc	Cement Objective	Eval Method Returns to Surface
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**Cement Stages**

Stg #	Description	Objective			Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btm Plug?			
1	Surface Casing Cement				13.0	932.0	11/25/2015	11/25/2015	Yes	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?	Vol Cement Ret (bbl)	Volume Lost (bbl)	
4		5		5		450.0	975.0	975.0	11/25/2015	Yes	6.0	0.0	
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			890.0	Drill Bit	4	No	946.0	11/25/2015	11/25/2015	8 3/4

**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	13.0	932.0	11/25/2015	11/25/2015	G	500	5.20	1.18	105.0	100.0	15.20

**Intermediate Casing Cement, Casing, 11/27/2015 22:30**

Type Casing	String Intermediate, 7,473.0ftKB	Start Date 11/27/2015	Cementing End Date 11/28/2015	Wellbore Original Hole	Job Drilling - original, 11/24/2015 01:15	Cementing Company Halliburton Energy Services	Cement Objective	Eval Method Returns to Surface
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**Cement Stages**

Stg #	Description	Objective			Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btm Plug?			
1	Intermediate Casing Cement				13.0	7,473.0	11/27/2015	11/28/2015	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)	Pressure Held (psi)	Pressure Release Date	Full Return?	Vol Cement Ret (bbl)	Volume Lost (bbl)	
3		5		4		2,200.0	2,700.0	2,700.0	11/28/2015	Yes	3.0	0.0	
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			7,425.0	Drill Bit	4	No	7,492.0	11/28/2015	11/28/2015	6 1/8

**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	7,473.0	11/27/2015	11/28/2015	EXPANDACEM	804	7.11	1.67	230.0		13.80

**Liner Cement, Casing, 12/3/2015 00:45**

Type Casing	String Liner, 14,731.0ftKB	Start Date 12/3/2015	Cementing End Date 12/3/2015	Wellbore Original Hole	Job Drilling - original, 11/24/2015 01:15	Cementing Company Halliburton Energy Services	Cement Objective	Eval Method Calculated
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**Cement Stages**

Stg #	Description	Objective			Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btm Plug?			
1	Liner Cement				6,380.0	14,731.0	12/3/2015	12/3/2015	Yes	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?	Vol Cement Ret (bbl)	Volume Lost (bbl)	
4		5		5		1,600.0	2,540.0	2,800.0	12/3/2015	Yes	37.0	0.0	
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	6,380.0	14,731.0	12/3/2015	12/3/2015	EPANDACEM	650	7.72	1.68	193.0	30.0	13.80