



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/11/2017
Invoice #: 900078
API#: 05-123-44409
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: BUTTERBALL 25C-34HZ

County: Weld
State: Colorado
Sec: 10
Twp: 2N
Range: 67W

Consultant: Matt
Rig Name & Number: 252
Distance To Location: 36
Units On Location: 1027-3103/4020-3212/4019-321
Time Requested: 1100
Time Arrived On Location: 1015
Time Left Location:

WELL DATA	Cement Data
Casing Size OD (in) : 9.625	Cement Name: BFN III
Casing Weight (lb) : 36.00	Cement Density (lb/gal) : 14.2
Casing Depth (ft.) : 1,833	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1843	Gallons Per Sack: 7.49
Open Hole Diameter (in.) : 13.50	% Excess: 15%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit:
Shoe Joint Length (ft) : 44	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 15	H2O Wash Up (bbls): 20.0
Max Rate: 8bm	Spacer Ahead Makeup
Max Pressure: 2000	30 bbl /2nd 10 BBL with Die

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results		Displacement: 139.46 bbls	
cuft of Shoe 19.10 cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)		(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)	
cuft of Conductor 61.05 cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Pressure of cement in annulus	
cuft of Casing 985.25 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Hydrostatic Pressure: 1352.20 PSI	
Total Slurry Volume 1065.40 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Pressure of the fluids inside casing	
bbls of Slurry 189.75 bbls (Total Slurry Volume) X (.1781)		Displacement: 771.38 psi	
Sacks Needed 720 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		Shoe Joint: 32.46 psi	
Mix Water 128.38 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42		Total 803.84 psi	
		Differential Pressure: 548.36 psi	
		Collapse PSI: 2020.00 psi	
		Burst PSI: 3520.00 psi	
		Total Water Needed: 317.84 bbls	

X Authorization To Proceed



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FOREMAN
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Weld
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DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Performed

X

Title

•

Date _____

Butterball 25C-34HZ

