



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/1/2017
Invoice #: 200069
API#
Foreman: Kirk Kallhoff

Customer: Bill Barrett Corp.
Well Name: crv 5-62-32-6457 b2b

County: Weld
State: Colorado
Sec: 32
Twp: 5n
Range: 63w

Consultant: casey
Rig Name & Number: wht mt opp 344
Distance To Location: 16 miles
Units On Location: 4028/4024
Time Requested: 630 am
Time Arrived On Location: 330 am
Time Left Location: 8:00 am

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.) : 825	Cement Yield (cuft) : 1.49
Total Depth (ft) : 822	Gallons Per Sack: 7.40
Open Hole Diameter (in.) : 12.25	% Excess: 20%
Conductor Length (ft) :	Displacement Fluid lb/gal: 8.3
Conductor ID :	BBL to Pit:
Shoe Joint Length (ft) : 43	Fluid Ahead (bbls): 30.0
Landing Joint (ft) :	H2O Wash Up (bbls): 10.0
Max Rate:	Spacer Ahead Makeup
Max Pressure:	h2o

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results	Displacement:	60.49	bbls
cuft of Shoe 18.66 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 0.00 cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Pressure of cement in annulus		
cuft of Casing 310.20 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Hydrostatic Pressure: 608.90 PSI		
Total Slurry Volume 328.86 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Pressure of the fluids inside casing		
bbls of Slurry 58.57 bbls (Total Slurry Volume) X (.1781)	Displacement: 337.36 psi		
Sacks Needed 221 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Shoe Joint: 31.72 psi		
Mix Water 38.89 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total 369.08 psi		
	Differential Pressure: 239.82 psi		
	Collapse PSI: 2020.00 psi		
	Burst PSI: 3520.00 psi		
	Total Water Needed: 139.37 bbls		

X Casey R
Authorization To Proceed

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LOCATION
FOREMAN
Date

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Weld

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DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Performed

X

Title

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Date _____