



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/3/2014
Invoice #: 12085
API#: 05-123-18394
Foreman: JASON

Customer: NOBLE
Well Name: SCHISSLER 1-11

County: Weld County
State: Colorado
Sec: 1
Twp: 4N
Range: 65W
Consultant: CHUCK
Rig Name & Number: LEED
Distance To Location: 11
Units On Location: 4031-3106
Time Requested: 800
Time Arrived On Location: 730
Time Left Location: 1200

WELL DATA

Casing Size OD (in) : 4.5
Casing Weight (lb) : 11.60
Casing Depth (ft.) : 595
Total Depth (ft) : 1000
Open Hole Diameter (in.) : 8.10
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 0
Landing Joint (ft) : 0
Max Rate: 3
Max Pressure: 1500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess:
Displacement Fluid lb/gal: 8.3
BBL to Pit: 2.0
Fluid Ahead (bbls): 4.0
H2O Wash Up (bbls): 20.0
Spacer Ahead Makeup
4 BBL WATER

Casing ID

4

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 0.00 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 0.00 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 147.04 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 147.04 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 26.19 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)
Sacks Needed 116 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 16.24 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 9.25 bbls

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 469.81 PSI

Pressure of the fluids inside casing

Displacement: 256.55 psi

Shoe Joint: 0.00 psi

Total 256.55 psi

Differential Pressure: 213.26 psi

Collapse PSI: #N/A psi

Burst PSI: #N/A psi

Total Water Needed: 49.48 bbls

X

Authorization To Proceed