



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/26/2017  
Invoice # 900054  
API# 05-123-43340  
Foreman: JASON

Customer: Anadarko Petroleum Corporation

Well Name: CAMENISCH 4N-35HZ

County: Weld  
State: Colorado  
Sec: 2  
Twp: 1N  
Range: 67W

Consultant: LANE  
Rig Name & Number: WM 252  
Distance To Location: 32  
Units On Location: 4027-3103,4034-3201,4024-3201  
Time Requested: 200  
Time Arrived On Location: 1230  
Time Left Location: 600

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,839  
Total Depth (ft) : 1849  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 46  
Landing Joint (ft) : 15  
Max Rate: 8  
Max Pressure: 2000

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.48  
Gallons Per Sack: 7.49  
% Excess: 15%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit: 25.0  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup  
30 BBL WATER DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 20.07 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)  
**cuft of Conductor** 61.05 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)  
**cuft of Casing** 988.63 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
**Total Slurry Volume** 1069.75 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
**bbls of Slurry** 190.52 bbls  
(Total Slurry Volume) X (.1781)  
**Sacks Needed** 723 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
**Mix Water** 128.90 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 139.75 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1356.63 PSI

## Pressure of the fluids inside casing

**Displacement:** 773.00 psi

**Shoe Joint:** 34.11 psi

**Total** 807.12 psi

**Differential Pressure:** 549.51 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 318.65 bbls

Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



Anadarko Petroleum Corporation  
CAMENISCH 4N-35HZ

2/26/2017

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### DESCRIPTION OF JOB EVENTS

X  
Signature

X WSS  
Title

X 2.26.17  
Date



# CAMENISCH 4N-35HZ SURFACE

