



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/4/2015  
Invoice #: 80442  
API#: 05-123-41970  
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation  
Well Name: Meguire 28C-16HZ

County: Weld  
State: Colorado  
Sec: 21  
Twp: 2N  
Range: 65W

Consultant: Sean / Chris  
Rig Name & Number: Noble 2  
Distance To Location: 28 Miles  
Units On Location: 4023-3104/4033-3203  
Time Requested: 730pm  
Time Arrived On Location: 710pm  
Time Left Location: 2:15am

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,824  
Total Depth (ft) : 1841  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 40  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 44  
Landing Joint (ft) : 10

Max Rate: 6  
Max Pressure: 1750

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 20%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit: 36  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 15.0

Spacer Ahead Makeup  
30 bbls With Dye in 2nd 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 19.29 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 30.53 cuft  
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 1046.35 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length )

**Total Slurry Volume** 1096.16 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 195.23 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 736 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 131.02 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 138.36 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1345.66 PSI

## Pressure of the fluids inside casing

**Displacement:** 767.37 psi

**Shoe Joint:** 32.78 psi

**Total** 800.15 psi

**Differential Pressure:** 545.51 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 314.38 bbls

Authorization To Proceed






Anadarko Petroleum Corporation  
Meguire 28C-16HZ

80442
Weld
Calvin Reimers
9/5/2015

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## DESCRIPTION OF JOB EVENTS

X   
Work Preformed

X

Title

X

Date

# SERIES 2000

