



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 11/22/2017

Invoice # 666235

API# 05-123-45507

Foreman: Nick Vigil

Customer: Anadarko Petroleum Corporation

Well Name: Papa Jo 2-25 35C2-17HZ

County: Weld

State: Colorado

Sec: 8

Twp: 1N

Range: 68W

Consultant: Matt/Brian

Rig Name & Number: Cartel 88

Distance To Location: 42 Miles

Units On Location: 4023/4040/4039

Time Requested: 14:30

Time Arrived On Location: 13:30

Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,871  
Total Depth (ft) : 1880  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 43  
Landing Joint (ft) : 10  
  
Max Rate: 8  
Max Pressure: 2000

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 5%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0  
  
Spacer Ahead Makeup  
Dye in second 10 bbl

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 18.66 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** 919.08 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 998.80 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 177.89 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 670 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 119.38 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 142.09 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1380.24 PSI

## Pressure of the fluids inside casing

**Displacement:** 788.20 psi

**Shoe Joint:** 31.72 psi

**Total** 819.92 psi

**Differential Pressure:** 560.32 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 311.48 bbls

X   
Authorization To Proceed

Date \_\_\_\_\_

# Papa Jo 2-25 35C2-17HZ

