



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/16/2019  
Invoice # 200500  
API#  
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: jodster south 25-8hz

County: Weld  
State: Colorado

Sec: 12  
Twp: 1n  
Range: 68w

Consultant: josh  
Rig Name & Number: Cartel 88  
Distance To Location: 17  
Units On Location: 4047/4032/4041  
Time Requested: 400 am  
Time Arrived On Location: 100 am  
Time Left Location: 7:00 am

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,871  
Total Depth (ft) : 1881  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 40  
Landing Joint (ft) : 8  
  
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: 7.40  
% Excess: 5%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0  
  
Spacer Ahead Makeup  
30 bbl with Die in 2nd 10

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 17.36 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** 997.49 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
**bbls of Slurry** 177.65 bbls  
(Total Slurry Volume) X (.1781)  
**Sacks Needed** 674 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
**Mix Water** 118.75 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 142.17 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:** 789.49 psi

**Shoe Joint:** 29.51 PSI

**Total** 819.00 psi

**Differential Pressure:** 561.24 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 300.92 bbls

Authorization To Proceed



# SERIES 2000

