



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/16/2015  
Invoice #: 80094  
API#  
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation  
Well Name: joker 1n3-9hz

County: Weld  
State: Colorado  
Sec: 9  
Twp: 1n  
Range: 65w  
Consultant: sean  
Rig Name & Number: noble 2  
Distance To Location: 26  
Units On Location: 038-3103/3105-3204/4019-321  
Time Requested: 430 pm  
Time Arrived On Location: 300 pm  
Time Left Location: 7:45pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,825  
Total Depth (ft) : 1845  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 40  
Conductor ID : 16  
Shoe Joint Length (ft) : 41  
Landing Joint (ft) : 10

Max Rate:  
Max Pressure:

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 10%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 17.80 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 35.64 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 959.62 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 1013.06 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 180.43 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 680 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 121.09 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 138.69 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1346.30 PSI

## Pressure of the fluids inside casing

**Displacement:** 769.23 psi

**Shoe Joint:** 30.25 psi

**Total** 799.47 psi

**Differential Pressure:** 546.83 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 299.78 bbls

X   
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.



Date \_\_\_\_\_

# M/D TOTCO 2000 SERIES

