



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/26/2015  
Invoice #: 80137  
API#: 05-123-41350  
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: JESTER 8N-14HZ

County: Weld  
State: Colorado

Sec: 15  
Twp: 3N  
Range: 67W

Consultant: RICKY  
Rig Name & Number: FINN ENERGY 4  
Distance To Location: 16  
Units On Location: 4031-3107/ 4034-3203  
Time Requested: 2100  
Time Arrived On Location: 2000  
Time Left Location: 130

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 814  
Total Depth (ft) : 833  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 60  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 40  
Landing Joint (ft) : 10

Max Rate: 6  
Max Pressure: 1000

## 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: 12.0  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

30BBL WATER/ DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 17.30 cuft

(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 45.79 cuft

(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 442.41 cuft

(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 505.50 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 90.03 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 339 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 60.42 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 60.65 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 600.75 PSI

## Pressure of the fluids inside casing

Displacement: 333.95 psi

Shoe Joint: 29.40 psi

Total 363.35 psi

Differential Pressure: 237.40 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 171.07 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 \_\_\_\_\_

# JESTER 8N-14HZ SURFACE

