

Date \_\_\_\_\_



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/26/2019

Invoice # 900401

API# 05-069-06515

Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation

Well Name: Jodster North 25-10HZ

County: Larimer

State: Colorado

Sec: 25

Twp: 5n

Range: 68w

Consultant: Tyler

Rig Name & Number: CARTEL 88

Distance To Location: 20

Units On Location: 4028/3103-4024/3214-4044/3205

Time Requested: 830

Time Arrived On Location: 800

Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,906  
Total Depth (ft) : 1916  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 42  
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: 7.48  
% 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  
30 BBL WATER, DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 18.23 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 937.04 cuft

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

Total Slurry Volume 1016.32 cuft

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

bbls of Slurry 181.01 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 687 sk

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

Mix Water 122.30 bbls

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

Displacement: 144.72 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 1406.06 PSI

## Pressure of the fluids inside casing

Displacement: 803.72 psi

Shoe Joint: 30.98 psi

Total 834.70 psi

Differential Pressure: 571.35 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 317.02 bbls

X *Tyler Humphrey H/E*  
Authorization To Proceed

## Jodster North 25-10HZ

