

Date \_\_\_\_\_



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/4/2019

Invoice # 200420

API#

Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: jdb 15-1hz

County: Weld

State: Colorado

Sec: 30

Twp: 2N

Range: 65w

Consultant: dave

Rig Name & Number: Cartel 88

Distance To Location: 34

Units On Location: 4047/4030/4044

Time Requested: 800 pm

Time Arrived On Location: 530 pm

Time Left Location: 11:00pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,859  
Total Depth (ft) : 1869  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 39  
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: 15%  
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** 16.93 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** 999.87 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length )  
**Total Slurry Volume** 1077.85 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
**bbls of Slurry** 191.96 bbls  
(Total Slurry Volume) X (.1781)  
**Sacks Needed** 728 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
**Mix Water** 128.32 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 141.32 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1371.38 PSI

## Pressure of the fluids inside casing

**Displacement:** 784.75 psi

**Shoe Joint:** 28.77 PSI


**Total** 813.52 psi

**Differential Pressure:** 557.86 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 309.63 bbls

X   
Authorization To Proceed

100218

# SERIES 2000

