



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 7/18/2015

Invoice # 80505

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: carter 34c-33hz

County: Weld

State: Colorado

Sec: 33

Twp: 2n

Range: 66w

Consultant: brian

Rig Name & Number: noble 2

Distance To Location: 19

Units On Location: 4029-3206/4024-3203

Time Requested: 1000 pm

Time Arrived On Location: 800 pm

Time Left Location: 12130 gm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,851  
Total Depth (ft) : 1868  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 47  
Conductor ID : 16  
Shoe Joint Length (ft) : 39  
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: 20%  
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** 16.93 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 41.88 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 1058.00 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 1116.80 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 198.90 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 750 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 133.49 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 140.86 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1365.48 PSI

## Pressure of the fluids inside casing

**Displacement:** 781.30 psi

**Shoe Joint:** 28.77 psi

**Total** 810.07 psi

**Differential Pressure:** 555.41 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 314.34 bbls

X *Bryan Brown* Bryan Brown  
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.





Anadarko Petroleum Corporation  
carter 34c-33hz

INVOICE #  
LOCATION  
FOREMAN  
Date

80505  
Weld  
Kirk Kallhoff  
7/18/2015

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## DESCRIPTION OF JOB EVENTS

X Bryan Brown BB  
Work Performed

X Consultant.

X 7-18-15  
Date

# M/D TOTCO 2000 SERIES

