



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/19/2014  
Invoice # 35044  
API#  
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation  
Well Name: cono 13n-14hz

County: Weld  
State: Colorado  
Sec: 11  
Twp: 1n  
Range: 68w

Consultant: toby  
Rig Name & Number: major 42  
Distance To Location: 30  
Units On Location: 4030-3103/4024-3203  
Time Requested: 645 pm  
Time Arrived On Location: 530 pm  
Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,155  
Total Depth (ft) : 1173  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 38  
Landing Joint (ft) : 8

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: 16%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 16.49 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 0.00 cuft  
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 654.80 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length )

**Total Slurry Volume** 671.29 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 119.56 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 451 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 80.24 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 86.97 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 852.04 PSI

## Pressure of the fluids inside casing

**Displacement:** 481.63 psi

**Shoe Joint:** 28.03 psi

**Total** 509.66 psi

**Differential Pressure:** 342.38 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 217.21 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.



35044	Weld	Kirk Kallh	9/19/201
-------	------	------------	----------

Customer  
Well Name

## Treatment Report Page 2

## DESCRIPTION OF JOB EVENTS

[illegible]

Notes:

bumped plug at 87 bbls at 824 pm at 1380 psi

119.1 bbls slurry

floats held

X

X

~~X~~ ~~Work performed~~

Title

X 9-19-14



# M/D TOTCO 2000 SERIES

