



Anadarko Petroleum Corporation  
barclay farms 28-1hz

INVOICE #  
LOCATION  
FOREMAN  
Date

200456
Weld
KirkKallhoff
5/10/2019

Treatment Report Page 2

### DESCRIPTION OF JOB EVENTS

X   
Work Performed

X C. Man  
Title

X 5-10-10  
Date



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/10/2019

Invoice # 200456

API#

Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: barclay farms 28-1hz

County: Weld

State: Colorado

Sec: 8

Twp: 1n

Range: 65w

Consultant: dave

Rig Name & Number: Cartel 88

Distance To Location: 38

Units On Location: 4047/4024/4030

Time Requested: 400 pm

Time Arrived On Location: 130 pm

Time Left Location: 7:00 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,923  
Total Depth (ft) : 1933  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 80  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 38  
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: 20%  
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** 16.49 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** 1080.87 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
**Total Slurry Volume** 1158.42 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
**bbls of Slurry** 206.31 bbls  
(Total Slurry Volume) X (.1781)  
**Sacks Needed** 783 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
**Mix Water** 137.91 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 146.34 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1418.60 PSI

## Pressure of the fluids inside casing

**Displacement:** 812.78 psi

**Shoe Joint:** 28.03 PSI

**Total** 840.81 psi

**Differential Pressure:** 577.79 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 324.25 bbls

X   
Authorization To Proceed

# SERIES 2000

