



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/1/2014  
Invoice #: 35078  
API#:   
Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation  
Well Name: barclay 28c-11hz

County: Weld  
State: Colorado  
Sec: 14  
Twp: 2n  
Range: 67w  
Consultant: lester  
Rig Name & Number: major 42  
Distance To Location: 20  
Units On Location: 4034-3103/4020-3212  
Time Requested: 1100 am  
Time Arrived On Location: 1000 am  
Time Left Location: 1:30 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,075  
Total Depth (ft) : 1095  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 42  
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 18.23 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 609.45 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
Total Slurry Volume 627.68 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
bbls of Slurry 111.79 bbls  
(Total Slurry Volume) X (.1781)  
Sacks Needed 421 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
Mix Water 75.02 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 80.48 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 793.03 PSI

## Pressure of the fluids inside casing

Displacement: 445.41 psi

Shoe joint: 30.98 psi

Total 476.39 psi

Differential Pressure: 316.63 psi

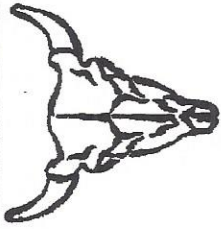
Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 205.50 bbls

X *[Signature]*  
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.



**Bison Oil Well Cementing  
Single Cement Surface Pipe**

Customer  
Well Name

Anadarko Petroleum Corporation  
barclay 28c-11hz

INVOICE #  
LOCATION  
FOREMAN  
Date

35078

Weld

kirk kallhoff

12/1/2014

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**DESCRIPTION OF JOB EVENTS**

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI
Safety Meeting	1115a														
MIRU	1040a														
CIRCULATE	1147a														
Drop Plug															
1223 pm															
M & P															
Time	Sacks														
1154 am	421														
1220 pm stop															
% Excess	16%														
Mixed bbls	75														
Total Sacks	421														
bbl Returns	20														
Water Temp															

Notes:

bumped plug at 1243 pm at 1390 psi

floats held

X

Work Performed

X

*Justin E. Cree*

Title

X

*12-1-14*

Date



# M/D TOTCO 2000 SERIES

