



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/30/2014

Invoice # 35064

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: buffalo35c-15hz

County: Weld

State: Colorado

Sec: 12

Twp: 1n

Range: 68w

Consultant: allan

Rig Name & Number: major 42

Distance To Location: 25

Units On Location: 4030-3103/4024-3203

Time Requested: 830 am

Time Arrived On Location: 530 am

Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,284  
Total Depth (ft) : 1303  
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** 727.93 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 746.16 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 132.89 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 501 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 89.19 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 96.64 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 947.21 PSI

## Pressure of the fluids inside casing

**Displacement:** 535.53 psi

**Shoe Joint:** 30.98 psi

**Total** 566.51 psi

**Differential Pressure:** 380.70 psi

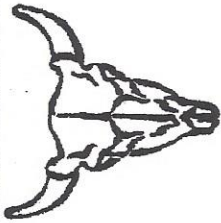
**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 235.82 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.



Bison Oil Well Cementing  
Single Cement Surface Pipe

INVOICE #  
LOCATION  
FOREMAN  
Date

35064  
Weld  
Kirk Kallhoff  
10/30/2014

Customer  
Well Name

Anadarko Petroleum Corporation  
buffalo35c-15hz

DESCRIPTION OF JOB EVENTS

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
Safety Meeting	831am														
MIRU	740am														
CIRCULATE	854am														
Drop Plug															
935 am															
M & P															
Time															
901 am															
929 am stop															
% Excess															
Mixed bbls															
Total Sacks															
bbl Returns															
Water Temp															

Notes:

bumped plug at 1000 am 1360 psi at 99 bbls  
floats held  
waited 2 hrs pumped 163 sks cement 43.2 bbls slurry  
waited 2 hrs pumped 146 sks cement 38.7 bbls slurry  
809 sks total

X

X 10-30-14  
Date

X  
Title



# M/D TOTCO 2000 SERIES

