



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/14/2014  
Invoice #: 25033  
API#: 05-123-39244  
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation  
Well Name: Sack State 30C-30HZ

County: Weld  
State: Colorado  
Sec: 31  
Twp: 1N  
Range: 67W  
Consultant: Bob  
Rig Name & Number: Major 42  
Distance To Location: 30 Miles  
Units On Location: 4032 3104/4024-3203  
Time Requested: 430am  
Time Arrived On Location: 200am  
Time Left Location: 7:30 am

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,270  
Total Depth (ft) : 1280  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 41  
Landing Joint (ft) : 8

Max Rate: 7  
Max Pressure: 2500

## 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: 1.4  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup  
30 bbls H2O+Dye in 2nd 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 17.80 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 745.44 cuft

(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length )

Total Slurry Volume 763.24 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 135.93 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 512 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 91.23 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 95.63 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 936.88 PSI

## Pressure of the fluids inside casing

Displacement: 529.92 psi

Shoe Joint: 30.25 psi

Total 560.17 psi

Differential Pressure: 376.71 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 236.86 bbls

X   
Authorization To Proceed





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

Customer  
Well Name

Anadarko Petroleum Corporation  
Sack State 30C-30HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

25033  
Weld  
Calvin Reimers  
8/14/2014

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**DESCRIPTION OF JOB EVENTS**

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE		0	555am	50	0			0			0			0		
Drop Plug		10	558am	20	10			10			10			10		
554am		20	602am	20	20			20			20			20		
		30	605am	40	30			30			30			30		
		40	607am	160	40			40			40			40		
M & P		50	609am	210	50			50			50			50		
Time Sacks		60	611am	270	60			60			60			60		
527am		70	613am	370	70			70			70			70		
551am		80	615am	450	80			80			80			80		
		90	617am	530	90			90			90			90		
		100	619am	410	100			100			100			100		
		110	Bump	920	110	621am		110			110			110		
% Excess		120			120			120			120			120		
Mixed bbls		130			130			130			130			130		
Total Sacks		140			140			140			140			140		
bbl Returns		150			150			150			150			150		
Water Temp																

Notes:

The day

1/2 BBL Back on Bleed Off

X

Work Preformed

X

Title

X

Date

# SERIES 2000

