



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/15/2014  
Invoice #: 25034  
API#: 05-123-39499  
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation

Well Name: Douthit 8N-27HZ

County: Weld  
State: Colorado  
Sec: 26  
Twp: 3N  
Range: 68W  
Consultant: Ellis  
Rig Name & Number: Major 29  
Distance To Location: 20 Miles  
Units On Location: 4034-3104/4032-3204  
Time Requested: 930am  
Time Arrived On Location: 830am  
Time Left Location: 1230pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,224  
Total Depth (ft) : 1234  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 40  
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: 17%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit: 13.0  
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 17.40 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 697.59 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing  
Depth - Conductor Length )

Total Slurry Volume 714.99 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 127.34 bbls  
(Total Slurry Volume) X (.1781)

Sacks Needed 480 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 85.46 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 92.16 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 903.06 PSI

## Pressure of the fluids inside casing

Displacement: 510.55 psi

Shoe Joint: 29.57 psi

Total 540.12 psi

Differential Pressure: 362.94 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 227.62 bbls

X *Ellis Louie Major 29*  
Authorization To Proceed





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

Customer  
Well Name

Anadarko Petroleum Corporation  
Douthit 8N-27HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

25034  
Weld  
Calvin Reimers  
8/15/2014

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**DESCRIPTION OF JOB EVENTS**

Safety Meeting MIRU CIRCULATE Drop Plug 1114am M & P Time Sacks	956am 900am 1025am	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
		0	1115am	60	0			0			0			0		
		10	1118am	30	10			10			10			10		
		20	1120am	50	20			20			20			20		
		30	1122am	90	30			30			30			30		
		40	1123am	100	40			40			40			40		
		50	1125am	180	50			50			50			50		
		60	1127am	240	60			60			60			60		
		70	1129am	320	70			70			70			70		
		80	1131am	390	80			80			80			80		
		90	1133am	390	90			90			90			90		
		100	1135am	370	100			100			100			100		
		110	Bump	1360	110	1137am		110			110			110		
		120	Bump	1030	120	1139am		120			120			120		
% Excess	17%	130			130			130			130			130		
Mixed bbls	85.46	140			140			140			140			140		
Total Sacks	480	150			150			150			150			150		
bbl Returns	13															
Water Temp	74.1															

Notes:

The day

1/2 BBL Back on Bleed Off

X Calvin Reimers Major 29  
Work Performed

X \_\_\_\_\_  
Title

X \_\_\_\_\_  
Date

# SERIES 2000

