



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/5/2015  
Invoice #: 80025  
API#: 05-123-41306  
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation

Well Name: Bane 28N2-9HZ

County: Weld  
State: Colorado  
Sec: 9  
Twp: 1N  
Range: 65W

Consultant: Toby / Larry  
Rig Name & Number: Advanced 10  
Distance To Location: 26 Miles  
Units On Location: 4027-3106/4030-3203  
Time Requested: 400am  
Time Arrived On Location: 200am  
Time Left Location: 8:45am

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,585  
Total Depth (ft) : 1600  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 45  
Conductor ID : 16  
Shoe Joint Length (ft) : 44  
Landing Joint (ft) : 8

Max Rate: 6  
Max Pressure: 1750

## 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: 23  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

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

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 18.99 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 40.09 cuft  
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 903.05 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 962.13 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 171.36 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 646 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 115.00 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 119.75 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1169.10 PSI

## Pressure of the fluids inside casing

**Displacement:** 664.47 psi

**Shoe Joint:** 32.27 psi

**Total** 696.74 psi

**Differential Pressure:** 472.36 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 284.75 bbls

X

Authorization To Proceed





# DISON Oil Well Cementing Single Cement Surface Pipe

Customer  
Well Name

Anadarko Petroleum Corporation  
Bane 28N2-9HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

00023  
Weld  
Calvin Reimers  
4/5/2015

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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	540am	0	730am	60	0			0			0			0		
Drop Plug	200am	10	733am	100	10			10			10			10		
729am	609am	20	735am	90	20			20			20			20		
		30	737am	90	30			30			30			30		
		40	739am	160	40			40			40			40		
M & P		50	741am	210	50			50			50			50		
Time	Sacks	60	743am	260	60			60			60			60		
616am	646	70	745am	300	70			70			70			70		
726am		80	746am	380	80			80			80			80		
		90	748am	430	90			90			90			90		
		100	750am	500	100			100			100			100		
		110	752am	440	110			110			110			110		
% Excess	20%	120	756am	410	120			120			120			120		
Mixed bbls	115	130	Bump	900	130			130			130			130		
Total Sacks	646	140			140			140			140			140		
bbl Returns	23	150			150			150			150			150		
Water Temp	46.8															

Notes:

The day

1/2 bbl Back on Bleed Off

PSI Test 607am 1000psi, Cidr 609am 30bbls With Dye in 2nd 10bbls, Cement 616am 646 sks 171.36 bbls Slurry at 14.2 lb 1.49 Yield, Shut Down 726am, Drop Plug 729am, Displace 730am 119.75 bbls, Land Plug 756am, Float Held, 23 bbls Slurry to Surface.

X

Work Performed

X

Title

X

Date

# SERIES 2000

