



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/9/2015  
Invoice #: 80056  
API#  
Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation  
Well Name: cream 15n-a28hz

County: Weld  
State: Colorado  
Sec: 28  
Twp: 3n  
Range: 65w

Consultant: vivian  
Rig Name & Number: advanced 10  
Distance To Location: 10  
Units On Location: 4038-3103/4034-3211  
Time Requested: 800 am  
Time Arrived On Location: 700 am  
Time Left Location: 12:15 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,183  
Total Depth (ft) : 1202  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 45  
Conductor ID : 16  
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: 20%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0

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

**cuft of Casing** 667.41 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 725.73 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 129.25 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 487 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 86.74 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 88.83 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

**Hydrostatic Pressure:** 872.70 PSI

## Pressure of the fluids inside casing

**Displacement:** 491.98 psi

**Shoe Joint:** 30.98 psi

**Total** 522.96 psi

**Differential Pressure:** 349.74 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 215.57 bbls

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  
cream 15n-a28hz

INVOICE #  
LOCATION  
FOREMAN  
Date

80056  
Weld  
kirk kallhoff  
3/9/2015

Treatment Report Page 2

**DESCRIPTION OF JOB EVENTS**

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	1030a	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	700am	0	1121a	10	0			0			0			0		
Drop Plug	1049a	10	1123a	60	10			10			10			10		
1121 am		20	1125a	60	20			20			20			20		
		30	1127a	60	30			30			30			30		
		40	1129a	150	40			40			40			40		
M & P		50	1131a	230	50			50			50			50		
Time	Sacks	60	1133a	270	60			60			60			60		
1054 am	487	70	1135a	340	70			70			70			70		
1119 am stop		80	1137a	330	80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	20%	120			120			120			120			120		
Mixed bbls	86.7	130			130			130			130			130		
Total Sacks	487	140			140			140			140			140		
bbl Returns	11	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 1141 am 720 psi

floats held

X Uman Bey  
Work Preformed

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

X 3-9-15  
Date

# M/D TOTCO 2000 SERIES

