



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/5/2015  
Invoice # 80103  
API# 05-123-40959  
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation  
Well Name: CREAM 15C-28HZ

County: Weld  
State: Colorado  
Sec: 28  
Twp: 3N  
Range: 65W  
Consultant: TOBY  
Rig Name & Number: ADVANCED 10  
Distance To Location: 12  
Units On Location: 4031-3107, 4030-3203  
Time Requested: 1400  
Time Arrived On Location: 1300  
Time Left Location: 1830

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,182  
Total Depth (ft) : 1197  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 45  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 43  
Landing Joint (ft) : 5

Max Rate: 6  
Max Pressure: 1500

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 30%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit: 29.0  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 20.0

### Spacer Ahead Makeup

30 BBL WATER W/ DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 18.86 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)  
cuft of Conductor 34.34 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)  
cuft of Casing 722.68 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
Total Slurry Volume 775.89 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
bbls of Slurry 138.19 bbls  
(Total Slurry Volume) X (.1781)  
Sacks Needed 521 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
Mix Water 92.74 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 88.44 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 872.30 PSI

## Pressure of the fluids inside casing

Displacement: 491.12 psi

Shoe Joint: 32.06 psi

Total 523.18 psi

Differential Pressure: 349.13 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 231.18 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**

Customer  
Well Name

Anadarko Petroleum Corporation  
CREAM 15C-28HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

80103  
Weld  
JASON KELEHER  
3/5/2015

Treatment Report Page 2

**DESCRIPTION OF JOB EVENTS**

		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
Safety Meeting	1555	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
MIRU	1300	0	1710	0	0			0			0			0		
CIRCULATE	1625	10	1712	70	10			10			10			10		
Drop Plug		20	1715	50	20			20			20			20		
1709		30	1718	100	30			30			30			30		
		40	1721	230	40			40			40			40		
		50	1723	320	50			50			50			50		
M & P		60	1724	360	60			60			60			60		
Time	Sacks	70	1728	310	70			70			70			70		
1632-1708	521	80	1732	370	80			80			80			80		
		90	1734	370	90			90			90			90		
		100	BUMP	980	100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
% Excess	30%	130			130			130			130			130		
Mixed bbls	92.7	140			140			140			140			140		
Total Sacks	521	150			150			150			150			150		
bbl Returns	29															
Water Temp	50															

Notes:

PERFORMED PRESSURE TEST TO 1500 PSI AT 1623, PUMPED 30 BBL WATER WITH DYE IN 2ND 10 AT 1625, MIXED AND PUMPED 521 SKS AT 14.2, 138.2 BBL AT 1632, SHUT DOWN AT 1708, STARTED DISPLACEMENT AT 1710, PLUG LANDED AT 370 PSI AT 1734 AND PRESSURED UP TO 980, HELD FOR 5 MINUTES AND RELEASED TO CHECK FLOATS, GOT .5 BBL WATER BACK, FLOATS HELD.

X

Signature

X

Title

X

Date



# CREAM 15C-28HZ SURFACE

