



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/4/2015  
Invoice #: 80102  
API#: 05-123-40964  
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: CREAM 37N-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: 800  
Time Arrived On Location: 730  
Time Left Location: 1700

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,187  
Total Depth (ft) : 1223  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 45  
Conductor ID : 15.25  
Shoe Joint Length (ft) : 41  
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: 15%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit: 0.0  
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 17.78 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 642.00 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
Total Slurry Volume 694.12 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
bbls of Slurry 123.62 bbls  
(Total Slurry Volume) X (.1781)  
Sacks Needed 466 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
Mix Water 82.97 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 89.01 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

Hydrostatic Pressure: 875.85 PSI

## Pressure of the fluids inside casing

Displacement: 494.27 psi

Shoe Joint: 30.22 psi

Total 524.48 psi

Differential Pressure: 351.37 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 221.97 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 37N-28HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

80102  
Weld  
JASON KELEHER  
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**DESCRIPTION OF JOB EVENTS**

Safety Meeting MIRU CIRCULATE Drop Plug 1438 M & P Time 1409-1437 % Excess Mixed bbls Total Sacks bbl Returns Water Temp	1320 730 1401 1438 M & P Time 1409-1437 % Excess Mixed bbls Total Sacks bbl Returns Water Temp	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	1439	0	0			0			0			0		
		10	1441	30	10			10			10			10		
		20	1445	30	20			20			20			20		
		30	1448	20	30			30			30			30		
		40	1451	110	40			40			40			40		
		50	1454	180	50			50			50			50		
		60	1458	250	60			60			60			60		
		70	1502	300	70			70			70			70		
		80	1506	340	80			80			80			80		
		90	1510	370	90			90			90			90		
		100	BUMP	860	100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

PERFORMED PRESSURE TEST TO 1500 PSI AT 1358, PUMPED 30 BBL WATER WITH DYE IN 2ND 10 AT 1401, MIXED AND PUMPED 466 SKS AT 14.2, 123.6 BBL AT 1409, SHUT DOWN AT 1437, STARTED DISPLACEMENT AT 1439, PLUG LANDED AT 370 PSI AT 1510 AND PRESSURED UP TO 860, HELD FOR 5 MINUTES AND RELEASED TO CHECK FLOATS, GOT .5 BBL BACK, FLOATS HELD.

X Jason Keleher  
Signature

X Delg foreman  
Title

X 3/4/15  
Date



# CREAM 37N-28HZ SURFACE

