



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/26/2015

Invoice # 35114

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: Green 2C-8HZ

County: Weld

State: Colorado

Sec: 7

Twp: 1n

Range: 67w

Consultant: lester

Rig Name & Number: major 42

Distance To Location: 25

Units On Location: 4030-3203/4024-3203

Time Requested: 200 am

Time Arrived On Location: 130 am

Time Left Location: 7:00 am

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,542  
Total Depth (ft) : 1560  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 90  
Conductor ID : 16  
Shoe Joint Length (ft) : 41  
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: 10%  
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** 17.80 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 80.19 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 780.60 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 878.58 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 156.48 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 590 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 105.01 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 116.66 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1137.53 PSI

## Pressure of the fluids inside casing

**Displacement:** 647.20 psi

**Shoe Joint:** 30.25 psi

**Total** 677.45 psi

**Differential Pressure:** 460.08 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 261.67 bbls

X *E. Case*

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  
Green 2C-8HZ

INVOICE #  
LOCATION  
FOREMAN  
Date

35114  
Weld  
kirk kallhoff  
1/26/2015

Treatment Report Page 2

**DESCRIPTION OF JOB EVENTS**

		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
Safety Meeting	450am															
MIRU	140am															
CIRCULATE	515am	0	557am	10	0			0			0			0		
Drop Plug		10	600am	50	10			10			10			10		
557 am		20	602am	60	20			20			20			20		
		30	604am	90	30			30			30			30		
		40	606am	130	40			40			40			40		
M & P		50	608am	200	50			50			50			50		
Time	Sacks	60	610am	250	60			60			60			60		
522 am	590	70	612am	320	70			70			70			70		
554 am stop		80	614am	380	80			80			80			80		
		90	616am	460	90			90			90			90		
		100	618am	500	100			100			100			100		
		110	620am	500	110			110			110			110		
% Excess	10%	120			120			120			120			120		
Mixed bbls	105	130			130			130			130			130		
Total Sacks	590	140			140			140			140			140		
bbl Returns	22	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 623 am 1500 psi

floats held

X LE Oso  
Work Preformed

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

X 1-26-15  
Date

# M/D TOTCO 2000 SERIES

