



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/25/2018  
Invoice #: 900266  
API#: 05-123- 46084  
Foreman: Corey Barras

Customer: Bill Barrett Corp.

Well Name: Anschutz State 5-62-26 3340 C

County: Weld  
State: Colorado  
Sec: 27  
Twp: 5N  
Range: 62W

Consultant: Matt  
Rig Name & Number: WM 344  
Distance To Location: 25  
Units On Location: 4024/3103 -4030/3213  
Time Requested: 1430  
Time Arrived On Location: 1430  
Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 817  
Total Depth (ft) : 817  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 0  
Conductor ID : 0  
Shoe Joint Length (ft) : 42  
Landing Joint (ft) : 0  
Max Rate: 8  
Max Pressure: 2500

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.48  
Gallons Per Sack: 7.49  
% Excess: 10%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 20.0  
H2O Wash Up (bbls): 20.0  
Spacer Ahead Makeup  
20 BBL with die in 1st 10

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** 0.00 cuft  
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)  
**cuft of Casing** 430.62 cuft  
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length )  
**Total Slurry Volume** 448.85 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
**bbls of Slurry** 79.94 bbls  
(Total Slurry Volume) X (.1781)  
**Sacks Needed** 303 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
**Mix Water** 54.08 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 58.68 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 590.90 PSI

## Pressure of the fluids inside casing

**Displacement:** 327.27 psi

**Shoe Joint:** 30.98 psi

**Total** 358.25 psi

**Differential Pressure:** 232.65 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 152.76 bbls

X

Authorization To Proceed

*Corey Barras*

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

Bill Barrett Corp.  
Anschutz State 5-62-26 3340 C

INVOICE #  
LOCATION  
FOREMAN  
Date

900266  
Weld  
Corey Barras  
2/25/2018

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## DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Preformed

X

Title

X

Date \_\_\_\_\_