



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/16/2018  
Invoice #: 200283  
API#:   
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation  
Well Name: english farms 8-10hz

County: Weld  
State: Colorado  
Sec: 8  
Twp: 1n  
Range: 65w  
Consultant: levi  
Rig Name & Number: CARTEL 88  
Distance To Location: 38  
Units On Location: 1  
Time Requested: 1100 am  
Time Arrived On Location: 1000 am  
Time Left Location: 3:00 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 1,868  
Total Depth (ft) : 1878  
Open Hole Diameter (in.) : 12.25  
Conductor Length (ft) : 80  
Conductor ID : 15.5  
Shoe Joint Length (ft) : 41  
Landing Joint (ft) : 8

Max Rate: 8  
Max Pressure: 2000

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.48  
Gallons Per Sack: 7.48  
% Excess: 15%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup  
30 BBL WATER, DYE IN 2ND 10

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

**cuft of Casing** 643.96 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 726.16 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 129.33 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 491 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 87.38 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 141.86 bbls

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

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1378.02 PSI

## Pressure of the fluids inside casing

**Displacement:** 787.77 psi

**Shoe Joint:** 30.25 psi

**Total** 818.01 psi

**Differential Pressure:** 560.01 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 269.24 bbls

X *Kirk Kallhoff*  
Authorization To Proceed



english farms 8-10hz

5/16/2018

Treatment Report Page 2

## DESCRIPTION OF JOB EVENTS

X   
Authorized signature

X	Title
1	1. The first title
2	2. The second title
3	3. The third title
4	4. The fourth title
5	5. The fifth title
6	6. The sixth title
7	7. The seventh title
8	8. The eighth title
9	9. The ninth title
10	10. The tenth title

WSC

X  
Date

5-16-18



**SERIES 2000**

