



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/15/2017
Invoice #: 900154
API#: 05-123-42727
Foreman: Corey B.

Customer: Bill Barrett Corp.

Well Name: Anschutz Equuss Farms 4148C

County: Weld
State: Colorado
Sec: 4
Twp: 62N
Range: 29W

Consultant: Matt
Rig Name & Number: WM 344
Distance To Location: 25
Units On Location: 4024/3103 -
Time Requested: 500
Time Arrived On Location: 400
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 800
Total Depth (ft) : 802
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 0
Conductor ID :
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 0

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.48
Gallons Per Sack: 7.40
% Excess: 30%
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 2nd 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.66 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 325.71 cuft

(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 344.37 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 61.33 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 233 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 41.00 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 58.52 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 590.16 PSI

Pressure of the fluids inside casing

Displacement: 326.40 psi

Shoe Joint: 31.72 psi

Total 358.13 psi

Differential Pressure: 232.03 psi

Collapse PSI: 2020.00 psi

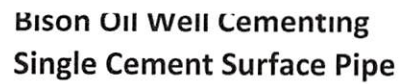
Burst PSI: 3520.00 psi

Total Water Needed: 139.52 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.



Bill Barrett Corp.
Anschutz Equss Farms 4148C

900154
Weld
Corey B.
8/15/2017

Date _____