



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/13/2017
Invoice # 666183
API# 05-125-42732
Foreman: Nick Vigil

Customer: Bill Barrett Corp.

Well Name: Anschutz Equus Farms 4-62-29-2532CS

County: Weld
State: Colorado
Sec: 28
Twp: 4N
Range: 62W

Consultant: Casey
Rig Name & Number: WMO 344
Distance To Location: 25
Units On Location: 4023,4044
Time Requested: 18:30
Time Arrived On Location: 17:20
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 792
Total Depth (ft) : 791
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 0
Conductor ID : 0
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 0

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: 40%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 0.0
Fluid Ahead (bbls): 20.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
Dye in 1st 10 bbl.

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.36 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 347.25 cuft

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

Total Slurry Volume 364.61 cuft

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

bbls of Slurry 64.94 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 245 sk

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

Mix Water 43.58 bbls

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

Displacement: 58.14 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 584.26 PSI

Pressure of the fluids inside casing

Displacement: 324.25 psi

Shoe Joint: 29.51 psi

Total 353.76 psi

Differential Pressure: 230.50 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 141.72 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

Bill Barrett Corp.
Anschutz Equus Farms 4-62-29-2532C

INVOICE #
LOCATION
FOREMAN
Date

666183
Weld
Nick Vigil
8/13/2017

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

|x

Work Preformed

Casey Law

X

Title

Co-man

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Date _____

8/13/17