



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/2/2014

Invoice # 55020

API#

Foreman: monte

Customer: Bill Barrett Corp.

Well Name: anschutz equus farms 4-62-16 0560bh

County: Weld

State: Colorado

Sec: 16

Twp: 4n

Range: 62w

Consultant: casey

Rig Name & Number: major 43

Distance To Location: 46

Units On Location: 4028-3201 4022-3212

Time Requested: 4:00am

Time Arrived On Location: 2:30am

Time Left Location: 9:00

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 748
Total Depth (ft) : 790
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID : 15.6
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 8

Max Rate: 5
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess: 50%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 60.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

10 fresh 10 dye 40 fresh

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

Total Slurry Volume 567.02 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 100.99 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 446 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 62.61 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 55.12 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 590.62 PSI

Pressure of the fluids inside casing

Displacement: 303.98 psi**Shoe Joint:** 33.95 psi**Total** 337.94 psi**Differential Pressure:** 252.69 psi**Collapse PSI:** 2020.00 psi**Burst PSI:** 3520.00 psi**Total Water Needed:** 197.73 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.



55020	Weld	monte	9/2/201
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Customer
Well Name

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DESCRIPTION OF JOB EVENTS

[illegible]

conclusion: Meeting with procedure test per company man circulate 60 bbls ahead with dye in 2nd 10,

mix and pump 466 sks at 50 % excess. drop plug and displace 55.12 bbls h2o

did not bump plug, went 2 bbls over per company man, close head in

X _____
Work performed

X	Co man	
	Title	
X		Date