

Bison Oil Well Cementing Single Cement Surface Pipe



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Date: 2/26/2020

Invoice # 200575

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: damore 18-7hz

County: Weld

State: Colorado

Sec: 18

Twp: 5n

Range: 67w

Consultant: joe

Rig Name & Number: Cartel 88

Distance To Location: 15

Units On Location: 4047/4034/4039

Time Requested: 330 asm

Time Arrived On Location: 200 am

Time Left Location: 7:30 am

WELL DATA

Casing Size OD (in) : 9.625

Casing Weight (lb) : 36.00

Casing Depth (ft.) : 1,886

Total Depth (ft) : 1896

Open Hole Diameter (in.) : 13.50

Conductor Length (ft) : 80

Conductor ID : 15.25

Shoe Joint Length (ft) : 40

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: 7.40

% Excess: 10%

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 with Die in 2nd 10

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 61.05 cuft

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

cuft of Casing 970.91 cuft

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

Total Slurry Volume 1049.32 cuft

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

bbls of Slurry 186.88 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 709 sk

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

Mix Water 124.92 bbls

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

Displacement: 143.33 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1391.30 PSI

Pressure of the fluids inside casing

Displacement: 795.96 psi

Shoe Joint: 29.51 PSI

Total 825.47 psi

Differential Pressure: 565.83 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 308.25 bbls

X for Waller
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.

SERIES 2000

