

Bison Oil Well Cementing Single Cement Surface Pipe



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Date: 1/30/2019
Invoice #: 200396
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: buddy 7-13hz

County: Weld
State: Colorado

Sec: 30
Twp: 2N
Range: 65W

Consultant: dave
Rig Name & Number: Cartel 88
Distance To Location: 35
Units On Location: 4047/4030
Time Requested: 330 am
Time Arrived On Location: 200 am
Time Left Location: 9:00 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,867
Total Depth (ft) : 1877
Open Hole Diameter (in.) : 12.25
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: 5%
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 587.63 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 666.05 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 118.62 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 450 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 79.29 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: 1377.29 PSI

Pressure of the fluids inside casing

Displacement: 787.77 psi

Shoe Joint: 29.51 PSI

Total 817.28 psi

Differential Pressure: 560.01 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 261.15 bbls

X *Bret Cuda*
Authorization To Proceed

SERIES 2000

