



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/3/2017
Invoice #: 200100
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: fl greens federal 35n-8hz

County: Weld
State: Colorado
Sec: 22
Twp: 3n
Range: 68w
Consultant: matt
Rig Name & Number: wmo 252
Distance To Location: 36
Units On Location: 4028/4034/4024
Time Requested: 400 pm
Time Arrived On Location: 300 pm
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,819
Total Depth (ft) : 1844
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.6
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 15
Max Rate: 8
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.40
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

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 65.76 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 977.39 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1061.81 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 189.11 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 713 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 125.56 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 138.46 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1341.88 PSI

Pressure of the fluids inside casing

Displacement: 765.78 psi

Shoe Joint: 31.72 psi

Total 797.50 psi

Differential Pressure: 544.38 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 304.02 bbls

Authorization To Proceed

Date _____

SERIES 2000

