



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/7/2015
Invoice # 80048
API# 05-123-41501-00
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: English Farms 15N-8HZ

County: Weld
State: Colorado
Sec: 8
Twp: 1N
Range: 65W

Consultant: Don / Tobin
Rig Name & Number: Extreme 24
Distance To Location: 22 Miles
Units On Location: 4023-3104/4030-3203
Time Requested: 930am
Time Arrived On Location: 810am
Time Left Location: 6:45 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,850
Total Depth (ft) : 1876
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 43
Conductor ID : 16
Shoe Joint Length (ft) : 41
Landing Joint (ft) : 19

Max Rate: 6
Max Pressure: 1750

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 25%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 34
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

30 bbls With Dye in 2nd 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.89 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 38.31 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 1104.09 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1160.29 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 206.65 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 779 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 138.69 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.33 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1364.96 PSI

Pressure of the fluids inside casing

Displacement: 780.04 psi

Shoe Joint: 30.40 psi

Total 810.44 psi

Differential Pressure: 554.52 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 320.01 bbls

X

Authorization To Proceed

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SERIES 2000

