



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/11/2015
Invoice #: 80428
API#: 05-123-41919
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Sarchet 36G-20HZ

County: Weld
State: Colorado
Sec: 20
Twp: 2N
Range: 65W

Consultant: Chris / Sean
Rig Name & Number: Noble 2
Distance To Location: 28 Miles
Units On Location: 4023-3104/4024-3203
Time Requested: 400pm
Time Arrived On Location: 220pm
Time Left Location: 8:15pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,838
Total Depth (ft) : 1855
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 60
Conductor ID : 15.25
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 10

Max Rate: 6
Max Pressure: 1250

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 2 /
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 15.0

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 17.23 cuft

(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 45.79 cuft

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

cuft of Casing 1042.82 cuft

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

Total Slurry Volume 1105.84 cuft

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

bbls of Slurry 196.95 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 742 sk

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

Mix Water 132.18 bbls

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

Displacement: 139.81 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1355.98 PSI

Pressure of the fluids inside casing

Displacement: 775.44 psi

Shoe Joint: 29.29 psi

Total 804.73 psi

Differential Pressure: 551.25 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 316.98 bbls

X Sean Dillip
Authorization To Proceed

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SERIES 2000

