



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/21/2018
Invoice # 666399
API# 05-123-47868
Foreman: Nick Vigil

Customer: Anadarko Petroleum Corporation

Well Name: Reese 21-7HZ

County: Weld
State: Colorado

Sec: 8
Twp: 1N
Range: 65W

Consultant: Brian
Rig Name & Number: Cartel 88
Distance To Location: 28 Miles
Units On Location: 4044/4042/4030
Time Requested: 14:00
Time Arrived On Location: 13:00
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,862
Total Depth (ft) : 1872
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 10

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: 7.48
% 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
Dye in second 10 bbl

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.23 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 958.01 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1037.29 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 184.74 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 696 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 123.98 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.47 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1373.60 PSI

Pressure of the fluids inside casing

Displacement: 784.75 psi

Shoe Joint: 30.98 psi

Total 815.73 psi

Differential Pressure: 557.86 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 305.46 bbls

X
Authorization To Proceed

Date _____

Reese 21-7HZ

