



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/7/2019
Invoice #: 900340
API#: 05-123-48124
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation
Well Name: Carson 1-13HZ

County: Weld
State: Colorado
Sec: 9
Twp: 1n
Range: 68w
Consultant: David
Rig Name & Number: CARTEL 88
Distance To Location: 38
Units On Location: 4046/3104-4030/3215-4033/3201
Time Requested: 800
Time Arrived On Location: 730
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,923
Total Depth (ft) : 1933
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 19.124
Shoe Joint Length (ft) : 42
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: 7.48
% Excess: 30%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0
Spacer Ahead Makeup
30 BBL WATER, DYE IN 2ND 10

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 119.15 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 1170.95 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1308.33 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 233.01 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 884 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 157.44 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 146.04 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1418.60 PSI

Pressure of the fluids inside casing

Displacement: 811.05 psi

Shoe Joint: 30.98 psi


Total 842.04 psi

Differential Pressure: 576.56 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 353.47 bbls

X 
Authorization To Proceed

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Carson1-13HZ

