



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/20/2017
Invoice # 900195
API# 05-123-45226
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: Burough 17N-17HZ

County: Weld
State: Colorado
Sec: 17
Twp: 1N
Range: 66W

Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 32
Units On Location: 1027/3103-4033/3212-4020/321
Time Requested: 630
Time Arrived On Location: 530
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,879
Total Depth (ft) : 1889
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 44
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) : 1.48
Gallons Per Sack: 7.40
% Excess: 10%
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 with Die in 2nd 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.10 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 967.15 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1047.30 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 186.52 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 708 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 124.68 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 143.02 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1386.14 PSI

Pressure of the fluids inside casing

Displacement: 791.22 psi

Shoe Joint: 32.46 psi

Total 823.68 psi

Differential Pressure: 562.46 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 317.70 bbls

X

Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.

X
Date

Borough 17N-17HZ

