



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/28/2017
Invoice #: 900056
API#: 05-123-43341
Foreman: JASON

Customer: Anadarko Petroleum Corporation
Well Name: CAMENISCH 3N-35HZ

County: Weld
State: Colorado
Sec: 2
Twp: 1N
Range: 67W

Consultant: LANE
Rig Name & Number: WM 252
Distance To Location: 32
Units On Location: 4027-3103, 4019-3213, 4032-3214
Time Requested: 1730
Time Arrived On Location: 1630
Time Left Location: 2230

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,873
Total Depth (ft) : 1883
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 45
Landing Joint (ft) : 0
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: 7.49
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 27.0
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 19.34 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 1007.69 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1088.08 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 193.79 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 735 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 131.11 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.35 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1381.65 PSI

Pressure of the fluids inside casing

Displacement: 788.36 psi

Shoe Joint: 32.86 psi

Total 821.22 psi

Differential Pressure: 560.43 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 322.46 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.

CAMENISCH 3N-35HZ SURFACE

