



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/23/2018
Invoice #: 300196
API#: 05-123-47720
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation
Well Name: CASTLE PINE 19-7HZ

County: Weld
State: Colorado
Sec: 19
Twp: 2N
Range: 66W
Consultant: LEVI
Rig Name & Number: CARTEL 88
Distance To Location: 25
Units On Location: 4028-3106,4039-3214,4035-3214
Time Requested: 1830
Time Arrived On Location: 1730
Time Left Location: 2100

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,831
Total Depth (ft) : 1841
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 41
Landing Joint (ft) : 5
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 7.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0
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 17.75 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 941.36 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing
Depth - Conductor Length)
Total Slurry Volume 1020.17 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 181.69 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 689 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 122.76 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 138.78 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1350.76 PSI

Pressure of the fluids inside casing

Displacement: 771.87 psi

Shoe Joint: 30.17 psi

Total 802.05 psi

Differential Pressure: 548.71 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 301.54 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.

Date _____

CASTLE PINE 19-7HZ SURFACE

