



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/4/2015
Invoice #: 80513
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: ge powers29n-26hz

County: Weld
State: Colorado
Sec: 23
Twp: 2n
Range: 65w
Consultant: chris
Rig Name & Number: noble 2
Distance To Location: 40
Units On Location: 4031-3103/4024-3203
Time Requested: 1130 am
Time Arrived On Location: 1030 am
Time Left Location: 3:00pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,833
Total Depth (ft) : 1843
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 40
Conductor ID : 15.25
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 10

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.36 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 30.53 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 1051.55 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1099.44 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 195.81 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 738 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 131.41 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 139.39 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 1352.20 PSI

Pressure of the fluids inside casing

Displacement: 773.11 psi

Shoe Joint: 29.51 psi

Total 802.62 psi

Differential Pressure: 549.59 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 310.80 bbls

X

Chris Mca

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 _____

M/D TOTCO 2000 SERIES

