



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/17/2018
Invoice #: 200284
API#:
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: english farms 8-11hz

County: Weld
State: Colorado
Sec: 8
Twp: 1n
Range: 65w

Consultant: levi
Rig Name & Number: CARTEL 88
Distance To Location: 38
Units On Location: 1
Time Requested: 600 am
Time Arrived On Location: 430 am
Time Left Location: 7:00 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,871
Total Depth (ft) : 1881
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 41
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: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
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 17.80 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 64.40 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 645.04 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 727.24 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 129.52 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 491 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 87.51 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 142.09 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1380.24 PSI

Pressure of the fluids inside casing

Displacement: 789.06 psi

Shoe Joint: 30.25 psi

Total 819.31 psi

Differential Pressure: 560.93 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 269.60 bbls

X
Authorization To Proceed

X 5-17-18
Date

SERIES 2000

