



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/15/2018
Invoice #: 200282
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: english farms 8-8hz

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

Consultant: bryan
Rig Name & Number: CARTEL 88
Distance To Location: 38
Units On Location: 1
Time Requested: 830 am
Time Arrived On Location: 630 am
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,863
Total Depth (ft) : 1873
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 40
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: 20%
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 17.36 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 670.08 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 751.84 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 133.90 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 508 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 90.47 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.55 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1374.34 PSI

Pressure of the fluids inside casing

Displacement: 786.04 psi

Shoe Joint: 29.51 psi

Total 815.55 psi

Differential Pressure: 558.78 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 272.02 bbls

X

Authorization To Proceed



Anadarko Petroleum Corporation
english farms 8-8hz

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SERIES 2000

