

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/6/2019
Invoice # 200422
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation
Well Name: jdb 15-4hz

County: Weld
State: Colorado
Sec: 30
Twp: 2N
Range: 65w
Consultant: dave
Rig Name & Number: Cartel 88
Distance To Location: 34
Units On Location: 4047/4044/4027
Time Requested: 1200 am
Time Arrived On Location: 930 pm
Time Left Location: 4:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,914
Total Depth (ft) : 1924
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
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: 7.40
% Excess: 10%
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 with Die 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 61.05 cuft

(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 985.96 cuft

(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1064.38 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 189.57 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 719 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 126.71 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 145.49 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1411.96 PSI

Pressure of the fluids inside casing

Displacement: 808.03 psi

Shoe Joint: 29.51 PSI

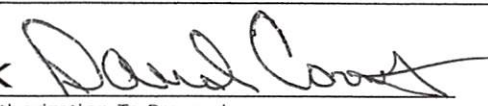
Total 837.54 psi

Differential Pressure: 574.42 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 312.21 bbls

X 
Authorization To Proceed

SERIES 2000

