



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/1/2018
Invoice #: 200272
API#:
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: george 25-1hz

County: Weld
State: Colorado
Sec: 25
Twp: 2n
Range: 65w

Consultant: bryan
Rig Name & Number: CARTEL 88
Distance To Location: 34
Units On Location: 4028/4024/4035
Time Requested: 830 am
Time Arrived On Location: 630 am
Time Left Location: 11:30 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,904
Total Depth (ft) : 1914
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 39
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: 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 WATER, DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 16.93 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 980.59 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1061.92 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 189.13 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 718 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 127.79 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 144.80 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1404.58 PSI

Pressure of the fluids inside casing

Displacement: 804.15 psi

Shoe Joint: 28.77 psi

Total 832.92 psi

Differential Pressure: 571.66 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 312.58 bbls

X
Authorization To Proceed



Anadarko Petroleum Corporation
george 25-1hz

200272
Weld
Kirk Kallhoff
5/1/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X 5-1-18
Date

SERIES 2000

