



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/8/2018
Invoice #: 200219
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: hergenreder 25n-4hz

County: Weld
State: Colorado
Sec: 32
Twp: 3n
Range: 68w

Consultant: levi
Rig Name & Number: CARTEL 88
Distance To Location: 30
Units On Location: 4028/4020/4030
Time Requested: 930 am
Time Arrived On Location: 800 am
Time Left Location: 2:00pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 2,313
Total Depth (ft) : 2324
Open Hole Diameter (in.) : 13.50
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: 5%
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 1145.90 cuft

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

Total Slurry Volume 1228.10 cuft

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

bbls of Slurry 218.72 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 830 sk

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

Mix Water 147.78 bbls

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

Displacement: 176.26 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1706.30 PSI

Pressure of the fluids inside casing

Displacement: 979.64 psi

Shoe Joint: 30.25 psi

Total 1009.89 psi

Differential Pressure: 696.41 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 364.05 bbls

X Kallhoff
Authorization To Proceed



Bison Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation

hergenreder 25n-4hz

INVOICE #

200219

LOCATION

Weld

FOREMAN

Kirk Kallhoff

Date _____

1/8/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

X

Authorized signature

X

Title

2

Date _____

SERIES 2000

