

Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/5/2017
Invoice #: 200163
API#:
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: wagner 28n-w10hz

County: Weld
State: Colorado
Sec: 14
Twp: 1 n
Range: 67w

Consultant: m.att
Rig Name & Number: cartel 88
Distance To Location: 34
Units On Location: 4028/4039/4030
Time Requested: 400 pm
Time Arrived On Location: 200 pm
Time Left Location: 7:30pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,857
Total Depth (ft) : 1867
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.6
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) : 1.49
Gallons Per Sack: 7.40
% 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

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 65.76 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 911.90 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 995.45 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 177.29 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 668 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 117.71 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.01 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1369.91 PSI

Pressure of the fluids inside casing

Displacement: 783.02 psi

Shoe Joint: 30.25 psi

Total 813.27 psi

Differential Pressure: 556.64 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 298.72 bbls

X
Authorization to Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.




Anadarko Petroleum Corporation
wagner 28n-w10hz

200163
Weld
Kirk Kallhoff
9/5/2017

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X 
Work Performed

X Co. Man
Title

X 9-5-17
Date

SERIES 2000

