



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/20/2018
Invoice #: 200311
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation
Well Name: cowboy 21-8hz

County: Weld
State: Colorado
Sec: 24
Twp: 2N
Range: 66W

Consultant: bryan
Rig Name & Number: Cartel 88
Distance To Location: 30
Units On Location: 4028/4040/4039
Time Requested: 1100 pm
Time Arrived On Location: 900 pm
Time Left Location: 3:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,861
Total Depth (ft) : 1871
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: 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 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 913.95 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 992.36 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 176.74 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 671 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 118.14 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.40 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1372.86 PSI

Pressure of the fluids inside casing

Displacement: 785.18 psi

Shoe Joint: 29.51 PSI

Total 814.69 psi

Differential Pressure: 558.17 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 299.53 bbls

X
Authorization to Proceed



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Customer
Well Name

Anadarko Petroleum Corporation
cowboy 21-8hz

INVOICE #
LOCATION
FOREMAN
Date

200311
Weld
KirkKallhoff
8/21/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Performed

X

Title

x

Date _____

SERIES 2000

