



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/9/2018
Invoice #: 200261
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: quarter circle 24-4hz

County: Weld
State: Colorado
Sec: 24
Twp: 1n
Range: 67w

Consultant: bryan
Rig Name & Number: CARTEL 88
Distance To Location: 33
Units On Location: 4028/4030/4041
Time Requested: 130 am
Time Arrived On Location: 1230 am
Time Left Location: 5:30 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,848
Total Depth (ft) : 1858
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 42
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 18.23 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 609.07 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 691.71 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 123.19 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 467 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 83.24 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 140.24 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1363.27 PSI

Pressure of the fluids inside casing

Displacement: 778.71 psi

Shoe Joint: 30.98 psi

Total 809.70 psi

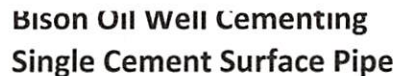
Differential Pressure: 553.57 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 263.47 bbls

X
Authorization To Proceed



Customer
Well Name

Anadarko Petroleum Corporation
quarter circle 24-4hz

INVOICE #
LOCATION
FOREMAN
Date

200261

Weld

Kirk Kallhoff

3/9/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X

Authorized signature

x

Title

10

Date _____

SERIES 2000

