



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/8/2015
Invoice #: 80444
API#: 05-123-41938
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Meguire 29C-16HZ

County: Weld
State: Colorado
Sec: 21
Twp: 2N
Range: 65W

Consultant: Sean / Chris
Rig Name & Number: Noble 2
Distance To Location: 30 Miles
Units On Location: 4023-3104/4034-3203
Time Requested: 330am
Time Arrived On Location: 135am
Time Left Location: 9:45am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,839
Total Depth (ft) : 1855
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 40
Conductor ID : 15.25
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 10

Max Rate: 6
Max Pressure: 1250

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 32
Fluid Ahead (bbls): 50.0
H2O Wash Up (bbls): 15.0

Spacer Ahead Makeup

50 bbls H2O+Dye in 4th 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.29 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 30.53 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 1011.04 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1060.86 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 188.94 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 712 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 126.80 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 139.50 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1356.54 PSI

Pressure of the fluids inside casing

Displacement: 773.72 psi

Shoe Joint: 32.79 psi

Total 806.52 psi

Differential Pressure: 550.03 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 331.30 bbls

X
Authorization To Proceed



Anadarko Petroleum Corporation
Meguire 29C-16HZ

INVOICE #
LOCATION
FOREMAN
Date

80444
Weld
Calvin Reimers
9/8/2015

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DESCRIPTION OF JOB EVENTS

X *San Mely*
Work Performed

X Coman
Title

X 9/8/15
Date

SERIES 2000

