



Bison Oil Well Cementing Single Cement Surface Pipe

Customer	Anadarko Petroleum Corporation
Well Name	MC 3-1HZ

INVOICE #
LOCATION
FOREMAN
Date

606469
Weld
Nick Vigil
4/19/2019

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DESCRIPTION OF JOB EVENTS

[illegible]

1x

Work Performed

X

Title

x

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/19/2019

Invoice # 606469

API# 05-123-49758

Foreman: Nick Vigil

Customer: Anadarko Petroleum Corporation

Well Name: MC 3-1HZ

County: Weld

State: Colorado

Sec: 8

Twp: 1N

Range: 65W

Consultant: Brian

Rig Name & Number: Cartel 88

Distance To Location: 38 Miles

Units On Location: 4045/4044/4030/4023

Time Requested: 1:00

Time Arrived On Location: 0:00

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625

Casing Weight (lb) : 36.00

Casing Depth (ft.) : 1,913

Total Depth (ft) : 1923

Open Hole Diameter (in.) : 13.50

Conductor Length (ft) : 80

Conductor ID : 19.125

Shoe Joint Length (ft) : 42

Landing Joint (ft) : 10

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: 7.48

% Excess: 30%

Displacement Fluid lb/gal: 8.3

BBL to Pit:

Fluid Ahead (bbls): 30.0

H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Dye in second 10 bbl

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 119.17 cuft

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

cuft of Casing 1164.59 cuft

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

Total Slurry Volume 1301.99 cuft

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

bbls of Slurry 231.89 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 874 sk

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

Mix Water 155.62 bbls

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

Displacement: 145.42 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1411.22 PSI

Pressure of the fluids inside casing

Displacement: 806.74 psi

Shoe Joint: 30.98 psi


Total 837.72 psi

Differential Pressure: 573.50 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 341.04 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.

MC 3-1HZ

