



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/13/2017
Invoice # 900079
API# 05-123-44407
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: BUTTERBALL 25N2-34HZ

County: Weld
State: Colorado
Sec: 10
Twp: 2N
Range: 67W

Consultant: Matt
Rig Name & Number: 252
Distance To Location: 36
Units On Location: 1027-3103/4020-3212/4019-321
Time Requested: 1100
Time Arrived On Location: 1015
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,842
Total Depth (ft) : 1852
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 15

Max Rate: 8bm
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.48
Gallons Per Sack: 7.49
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30 bbl /2nd 10 BBL with Die

Casing ID 8.921 Casing Grade J-55 only used

Calculated Results

cuft of Shoe 19.10 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 990.31 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1070.46 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 190.65 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 723 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 128.99 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 140.16 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1358.84 PSI

Pressure of the fluids inside casing

Displacement: 775.26 psi

Shoe Joint: 32.46 psi


Total 807.72 psi

Differential Pressure: 551.12 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 319.15 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.



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Customer
Well Name

Anadarko Petroleum Corporation
BUTTERBALL 25N2-34HZ

INVOICE #
LOCATION
FOREMAN
Date

900079
Weld
Corey B.
4/13/2017

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DESCRIPTION OF JOB EVENTS

[illegible]☒

Work Preformed

X

Title

Date _____

Butterball 25N234HZ-

