



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/15/2017
Invoice #: 900080
API#: 05-123-44413
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: BUTTERBALL 10N-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: 200
Time Arrived On Location: 1245
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,839
Total Depth (ft) : 1849
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 988.63 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1068.78 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 190.35 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 722 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 128.78 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 139.93 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1356.63 PSI

Pressure of the fluids inside casing

Displacement: 773.97 psi

Shoe Joint: 32.46 psi

Total 806.43 psi

Differential Pressure: 550.20 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 318.71 bbls

XME
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.

Bison Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
BUTTERBALL 10N-34HZ

INVOICE #
LOCATION
FOREMAN
Date

900080
Weld
Corey B.
4/15/2017

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Preformed

 Bryan Brown

x

Title

x Co-man

3

Date _____

x 4-15-17

Butterball 10N-34HZ

