



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/6/2018
Invoice #: 900254
API#: 05-123-46118
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation

Well Name: Azul 13-27HZ

County: Weld
State: Colorado
Sec: 13
Twp: 1N
Range: 66W

Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 38
Units On Location: 1027-3103/4030-3213/4024-320
Time Requested: 1400
Time Arrived On Location: 1245
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,865
Total Depth (ft) : 1875
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: 8
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.48
Gallons Per Sack: 7.40
% Excess: 5%
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 with Die in 2nd 10

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 916.00 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 996.15 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 177.41 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 673 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 118.59 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.94 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1375.81 PSI

Pressure of the fluids inside casing

Displacement: 785.18 psi

Shoe Joint: 32.46 PSI

Total 817.64 psi

Differential Pressure: 558.17 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 310.53 bbls

X
Authorization To Proceed



Bison Oil Well Cementing Single Cement Surface Pipe

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Well Name

Anadarko Petroleum Corporation
Azul 13-27HZ

INVOICE #
LOCATION
FOREMAN
Date

900254

Weld

Corey Barras

2/6/2018

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DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Preformed

Bryan Bond

X

Title

Co. Man

2

Date _____

2-6-18

Azul 13-27HZ

