



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/8/2018
Invoice #: 900255
API#: 05-123-46116
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation
Well Name: Azul 13-29HZ

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

Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 37
Units On Location: 1027-3103/4030-3213/4024-320
Time Requested: 330
Time Arrived On Location: 245
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,857
Total Depth (ft) : 1867
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 911.90 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 992.05 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 176.68 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 670 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 118.10 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.32 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1369.91 PSI

Pressure of the fluids inside casing

Displacement: 781.73 psi

Shoe Joint: 32.46 PSI

Total 814.19 psi

Differential Pressure: 555.72 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 309.42 bbls

X
Authorization To Proceed



Anadarko Petroleum Corporation
Azul 13-29HZ

900255
Weld
Corey Barras
2/8/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X 
Work Performed

X G. Man
Title

X 2-8-18
Date

Azul 13-29HZ

