



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 11/17/2016
Invoice # 666032
API# 05-123-42630
Foreman: Nick

Customer: Anadarko Petroleum Corporation

Well Name: Jaguar Fed 6S-35HZ

County: Weld
State: Colorado
Sec: 23
Twp: 1N
Range: 67W

Consultant: Jason Laub
Rig Name & Number: Extreme 24
Distance To Location: 33 miles
Units On Location: 4023,3104,4022,3215,4020,3214
Time Requested: 12:30
Time Arrived On Location: 23:50
Time Left Location: 7:30

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,880
Total Depth (ft) : 1889
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 90
Conductor ID : 15.25
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 0
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: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 12.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0
Spacer Ahead Makeup
Dye in the 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 68.68 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 1005.77 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1092.68 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 194.61 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 733 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 130.60 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 142.05 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1386.51 PSI

Pressure of the fluids inside casing

Displacement: 792.30 psi

Shoe Joint: 30.98 psi

Total 823.28 psi

Differential Pressure: 563.23 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 322.66 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.

Bison Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Jaguar Fed 6S-35HZ

INVOICE #
LOCATION
FOREMAN
Date

666032
Weld
Nick
11/17/2016

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

1x

Work Preformed

X

Title

X

Date _____

Jaguar 6S-35HZ

