



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/26/2015

Invoice # 80138

API# 05-123-41347

Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: JESTER 40N-14HZ

County: Weld

State: Colorado

Sec: 15

Twp: 3N

Range: 67W

Consultant: RICKY

Rig Name & Number: PINN ENERGY 4

Distance To Location: 16

Units On Location: 4031-3107/ 4019-3205

Time Requested: 1730

Time Arrived On Location: 1700

Time Left Location: 2200

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 826
Total Depth (ft) : 843
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 60
Conductor ID : 15.25
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 10

Max Rate: 6

Max Pressure: 1000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 13.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

30BBL WATER/ DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.63 cuft

(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 45.79 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 449.41 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 513.82 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 91.51 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 345 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 61.42 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 61.33 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 609.55 PSI

Pressure of the fluids inside casing

Displacement: 337.78 psi

Shoe Joint: 31.65 psi

Total 369.43 psi

Differential Pressure: 240.12 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 172.75 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.



Anadarko Petroleum Corporation
JESTER 40N-14HZ

80138
Weld
JASON KELEHER
5/26/2015

DESCRIPTION OF JOB EVENTS

X
Date

JESTER 40N-14HZ SURFACE

