



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/19/2015

Invoice # 80149

API# 05-123-41330

Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: JOKER 26N2-9HZ

County: Weld

State: Colorado

Sec: 9

Twp: 1N

Range: 65W

Consultant: CHRIS

Rig Name & Number: NOBLE 2

Distance To Location: 22

Units On Location: 4031-3106/ 3105-3204

Time Requested: 500

Time Arrived On Location: 400

Time Left Location: 1100

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,835
Total Depth (ft) : 1844
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 47
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 34.0
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 18.61 cuft

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

cuft of Conductor 35.87 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 961.09 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1015.56 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 180.87 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 682 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 121.39 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 139.30 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 1353.48 PSI

Pressure of the fluids inside casing

Displacement: 772.62 psi

Shoe Joint: 31.63 psi

Total 804.24 psi

Differential Pressure: 549.24 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 310.69 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
JOKER 26N2-9HZ

INVOICE #
LOCATION
FOREMAN
Date

80149
Weld
JASON KELEHER
6/19/2015

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DESCRIPTION OF JOB EVENTS

[illegible]

X 
Customer Signature

X APC Rep
Title

X 6/20/15
Date

JOKER 26N2-9HZ SURFACE

