



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/21/2015
Invoice #: 80041
API#: 05-123-41343
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation

Well Name: Iceman State 32N-A16HZ

County: Weld
State: Colorado
Sec: 15
Twp: 3N
Range: 67W

Consultant: Bryan / Ricky
Rig Name & Number: Pinnenergy 4
Distance To Location: 17 Miles
Units On Location: 4023-3104/4030-3203
Time Requested: 500pm
Time Arrived On Location: 330pm
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,604
Total Depth (ft) : 1621
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 60
Conductor ID : 16
Shoe Joint Length (ft) : 41
Landing Joint (ft) : 10

Max Rate: 6
Max Pressure: 1750

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:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

30 bbls With Dye in 2nd 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.91 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 53.46 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 905.58 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 976.95 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 173.99 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 656 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 116.77 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 121.59 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1183.35 PSI

Pressure of the fluids inside casing

Displacement: 673.87 psi

Shoe Joint: 30.44 psi

Total 704.31 psi

Differential Pressure: 479.04 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 278.37 bbls

X *Ricky / dyp*
Authorization To Proceed

Bison Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation

Iceman State 32N-A16HZ

INVOICE #

80041

LOCATION

Weld

FOREMAN

Calvin Reimers

Date _____

5/21/2015

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]☒

Work Performed

X

Title

3

Date _____

SERIES 2000

