



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/11/2015
Invoice #: 80400
API#: 05-123-41502-00
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation

Well Name: English Farms 16N-8HZ

County: Weld
State: Colorado
Sec: 8
Twp: 1N
Range: 65W

Consultant: Don / Tobin
Rig Name & Number: Extreme 24
Distance To Location: 22 Miles
Units On Location: 4023-3104/4030-3203
Time Requested: 730am
Time Arrived On Location: 605am
Time Left Location: 145pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,859
Total Depth (ft) : 1885
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 60
Conductor ID : 16
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 19

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: 25%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 43.0
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 19.29 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 1099.01 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1171.76 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 208.69 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 786 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 140.06 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.75 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1371.36 PSI

Pressure of the fluids inside casing

Displacement: 782.39 psi

Shoe Joint: 32.78 psi

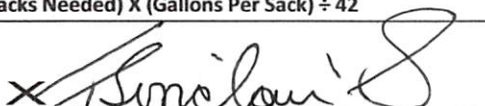
Total 815.17 psi

Differential Pressure: 556.19 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 321.80 bbls


Authorization To Proceed

Bison Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation

English Farms 16N-8HZ

INVOICE #

80400

LOCATION

Weld

FOREMAN

Calvin Reimers

Date _____

6/11/2015

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

X

Work Preformed

X

Title

5

Date _____

SERIES 2000

