



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/18/2018
Invoice # 200286
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: english farms 8-13hz

County: Weld
State: Colorado
Sec: 8
Twp: 1n
Range: 65w

Consultant: terry
Rig Name & Number: cartell 88
Distance To Location: 38
Units On Location: 1
Time Requested: 930 pm
Time Arrived On Location: 730 pm
Time Left Location: 1:30 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,872
Total Depth (ft) : 1882
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 8

Max Rate: 8
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.48
Gallons Per Sack: 7.48
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

30 BBL WATER, DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.36 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 64.40 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 645.40 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 727.17 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 129.51 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 491 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 87.50 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 142.25 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1380.97 PSI

Pressure of the fluids inside casing

Displacement: 789.92 psi

Shoe Joint: 29.51 psi

Total 819.43 psi

Differential Pressure: 561.54 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 269.75 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.



english farms 8-13hz

5/19/2018

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[illegible]

Authorized signature

Title

Date _____

SERIES 2000

