



Anadarko Petroleum Corporation
Damore 18-8HZ

900480
Weld
Corey Barras
2/27/2020

Treatment Report Page 2

X W. J. N. _____
Authorized signature

X Co Rep _____
Title

X 2-27-20 _____
Date



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/27/2020

Invoice # 900480

AFE # 2147203

Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation

Well Name: Damore 18-8HZ

County: Weld

State: Colorado

Sec: 18

Twp: 5n

Range: 67w

Consultant: Will

Rig Name & Number: CARTEL 88

Distance To Location: 15

Units On Location: 4028/3103-4020/3203-4033/3201

Time Requested: 2100

Time Arrived On Location: 2000

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,890
Total Depth (ft) : 1900
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 42
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

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 18.23 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 61.05 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 973.06 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1052.34 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 187.42 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 711 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 126.63 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 143.48 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1394.25 PSI

Pressure of the fluids inside casing

Displacement: 796.82 psi

Shoe Joint: 30.98 psi

Total 827.81 psi

Differential Pressure: 566.45 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 320.12 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.

Damore 18-8HZ

