



Customer
Well Name

Anadarko Petroleum Corporation
prowant 18-5hz

INVOICE #
LOCATION
FOREMAN
Date

200578
Weld
Kirk Kallhoff
3/2/2020

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X David Conant _____ X Co-man _____ X 3-2-20 _____
Work Performed Title Date



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/2/2020
Invoice #: 200578
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: prout 18-5hz

County: Weld
State: Colorado
Sec: 18
Twp: 5n
Range: 67w
Consultant: dave
Rig Name & Number: Cartel 88
Distance To Location: 15
Units On Location: 4047/4032/4039
Time Requested: 1000 am
Time Arrived On Location: 800 am
Time Left Location: 1:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,848
Total Depth (ft) : 1858
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
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: 7.40
% Excess: 10%
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 with Die 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 61.05 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 950.48 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1028.89 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 183.25 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 695 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 122.49 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 140.39 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1363.27 PSI

Pressure of the fluids inside casing

Displacement: 779.58 psi

Shoe Joint: 29.51 PSI


Total 809.08 psi

Differential Pressure: 554.19 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 302.88 bbls


Authorization To Proceed

