

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/22/2020
Invoice #: 900477
AFE #: 2147207
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation
Well Name: Damore 18-2HZ

County: Weld
State: Colorado
Sec: 18
Twp: 5n
Range: 67w
Consultant: Dave
Rig Name & Number: CARTEL 88
Distance To Location: 15
Units On Location: 4028/3103-4020/32034033-3201
Time Requested: 630
Time Arrived On Location: 530
Time Left Location:

WELL DATA

Casing Size OD (in): 9.625
Casing Weight (lb): 36.00
Casing Depth (ft): 1,866
Total Depth (ft): 1876
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 960.16 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1039.44 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 185.12 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 702 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 125.08 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.63 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1376.55 PSI

Pressure of the fluids inside casing

Displacement: 786.47 psi

Shoe Joint: 30.98 psi

Total 817.46 psi

Differential Pressure: 559.09 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 316.71 bbls

X
Authorization To Proceed

Damore 18-2HZ

