



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/25/2018
Invoice #: 200269
API#:
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: george 25-7hz

County: Weld
State: Colorado
Sec: 25
Twp: 2n
Range: 65w

Consultant: levi
Rig Name & Number: CARTEL 88
Distance To Location: 34
Units On Location: 4028/4040/4035
Time Requested: 700 pm
Time Arrived On Location: 500 pm
Time Left Location: 10:30 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,870
Total Depth (ft) : 1880
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.5
Shoe Joint Length (ft) : 41
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 17.80 **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 1006.05 **cuft**
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1088.25 **cuft**
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 193.82 **bbls**
(Total Slurry Volume) X (.1781)

Sacks Needed 735 **sk**
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 130.95 **bbls**
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 142.02 **bbls**

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

Pressure of cement in annulus

Hydrostatic Pressure: 1379.50 **PSI**

Pressure of the fluids inside casing

Displacement: 788.63 **psi**

Shoe Joint: 30.25 **psi**

Total 818.88 **psi**

Differential Pressure: 560.62 **psi**

Collapse PSI: 2020.00 **psi**

Burst PSI: 3520.00 **psi**

Total Water Needed: 312.97 **bbls**

X *[Signature]*
Authorization To Proceed



Anadarko Petroleum Corporation
george 25-7hz

200269
Weld
Kirk Kallhoff
4/25/2018

X 4-25-18
Date

SERIES 2000

