




Anadarko Petroleum Corporation
mab 15-14hz

INVOICE #
LOCATION
FOREMAN
Date

200400
Weld
KirkKallhoff
2/2/2019

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X		X	WGC	X	2-2-19
Work Performed		Title		Date	



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/2/2019
Invoice # 200400
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: mab 15-14hz

County: Weld

State: Colorado

Sec: 30

Twp: 2N

Range: 65w

Consultant: brent

Rig Name & Number: Cartel 88

Distance To Location: 33

Units On Location: 4047/4030/4024

Time Requested: 700 am

Time Arrived On Location: 500 am

Time Left Location: 16:00 am

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.) : 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: 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 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 1007.17 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1085.59 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 193.34 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 734 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 129.24 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: 311.48 bbls

X
Authorization To Proceed

SERIES 2000

