



Anadarko Petroleum Corporation
mab 15-13hz

INVOICE #
LOCATION
FOREMAN
Date

200401
Weld
KirkKallhoff
2/3/2019

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X	<u>David Conitt</u>	X	<u>Co-man</u>	X	<u>2-3-19</u>
Work Performed		Title		Date	



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/3/2019

Invoice # 200401

API#

Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: mab 15-13hz

County: Weld

State: Colorado

Sec: 30

Twp: 2N

Range: 65w

Consultant: dave

Rig Name & Number: Cartel 88

Distance To Location: 33

Units On Location: 4047/4030/4024

Time Requested: 900 pm

Time Arrived On Location: 700 pm

Time Left Location: 11:30 pm

WELL DATA

Casing Size OD (in) : 9.625
 Casing Weight (lb) : 36.00
 Casing Depth (ft.) : 1,849
 Total Depth (ft) : 1859
 Open Hole Diameter (in.) : 13.50
 Conductor Length (ft) : 80
 Conductor ID : 15.25
 Shoe Joint Length (ft) : 39
 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 16.93 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 951.02 cuft
 (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 1029.00 cuft
 (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 183.26 bbls
 (Total Slurry Volume) X (.1781)

Sacks Needed 695 sk
 (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 122.50 bbls
 (Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 140.55 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1364.01 PSI

Pressure of the fluids inside casing

Displacement: 780.44 psi

Shoe Joint: 28.77 PSI

Total 809.21 psi

Differential Pressure: 554.80 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 303.05 bbls

X 
 Authorization To Proceed

SERIES 2000

