



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/10/2019
Invoice #: 300266
API#: 05-123-49245
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: MAB 15-4HZ

County: Weld
State: Colorado
Sec: 15
Twp: 1N
Range: 66W
Consultant: DAVE
Rig Name & Number: CARTEL 88
Distance To Location: 33
Units On Location: 1045-3103,4033-3201,4030-3211
Time Requested: 1430
Time Arrived On Location: 1330
Time Left Location: 1830

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 : 15.25
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 5
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: 20.0
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 18.10 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 962.12 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1041.28 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 185.45 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 704 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 125.30 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 141.70 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1379.24 PSI

Pressure of the fluids inside casing

Displacement: 788.17 psi

Shoe Joint: 30.77 psi

Total 818.94 psi

Differential Pressure: 560.30 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 307.00 bbls

X
Authorization To Proceed



Anadarko Petroleum Corporation
MAB 15-4HZ

INVOICE #
LOCATION
FOREMAN
Date

300266
Weld
JASON KELEHER
2/10/2019

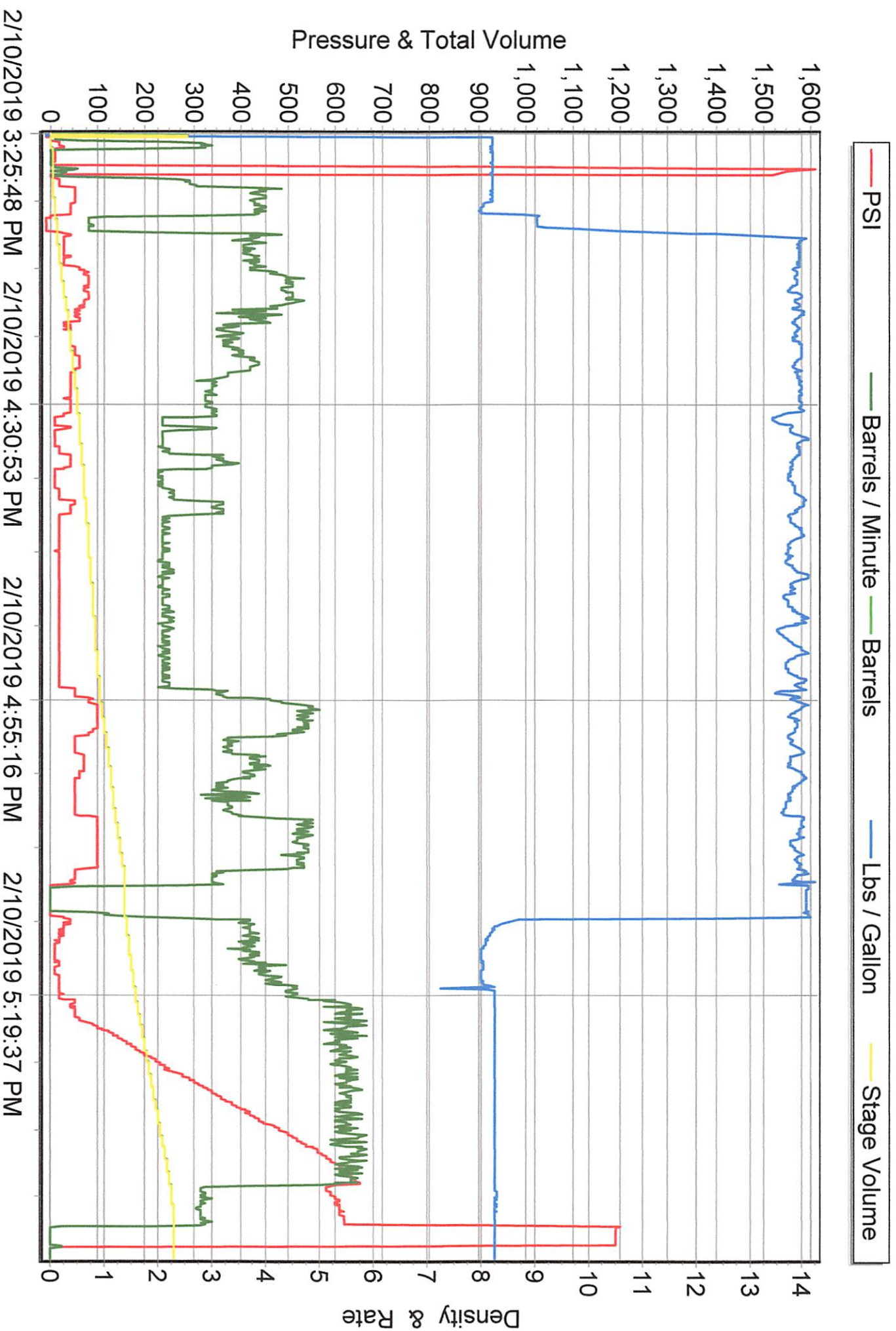
Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X 
Authorized signature

x 2-10-19
Date

MAB 15-4HZ SURFACE





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