



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/28/2018
Invoice #: 200270
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: george 25-5hz

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

Consultant: bryan
Rig Name & Number: CARTEL 88
Distance To Location: 34
Units On Location: 4028/4040/4035
Time Requested: 400 pm
Time Arrived On Location: 230 pm
Time Left Location: 8:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,871
Total Depth (ft) : 1881
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: 20%
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		Displacement: 142.09 bbls	
cuft of Shoe 17.80 cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)		(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)	
cuft of Conductor 64.40 cuft (Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Pressure of cement in annulus	
cuft of Casing 1050.38 cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Hydrostatic Pressure: 1380.24 PSI	
Total Slurry Volume 1132.58 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Pressure of the fluids inside casing	
bbls of Slurry 201.71 bbls (Total Slurry Volume) X (.1781)		Displacement: 789.06 psi	
Sacks Needed 765 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		Shoe Joint: 30.25 psi	
Mix Water 136.29 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42		Total 819.31 psi	
		Differential Pressure: 560.93 psi	
		Collapse PSI: 2020.00 psi	
		Burst PSI: 3520.00 psi	
		Total Water Needed: 318.38 bbls	

X

Authorization To Proceed



Customer
Well Name

Anadarko Petroleum Corporation
george 25-5hz

INVOICE #
LOCATION
FOREMAN
Date

200270
Weld
Kirk Kallhoff
4/28/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X cf Kelly
Authorized signature

X WGL
Title

X 4-28-18
Date

SERIES 2000

