



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/16/2017
Invoice #: 200181
API#
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: Meguire2

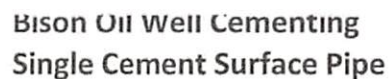
County: Weld
State: Colorado
Sec: 21
Twp: 2n
Range: 65w

Consultant: john
Rig Name & Number: pd 461
Distance To Location: 30
Units On Location: 4028/4039/4040
Time Requested: 1130 pm
Time Arrived On Location: 1000 pm
Time Left Location: 5:00 am

WELL DATA	Cement Data
Casing Size OD (in) : 9.625	Cement Name: BFN III
Casing Weight (lb) : 36.00	Cement Density (lb/gal) : 14.2
Casing Depth (ft.) : 2,195	Cement Yield (cuft) : 1.48
Total Depth (ft) : 2207	Gallons Per Sack: 7.48
Open Hole Diameter (in.) : 13.50	% Excess: 20%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.5	BBL to Pit:
Shoe Joint Length (ft) : 44	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 35	H2O Wash Up (bbls): 10.0
Max Rate: 8	Spacer Ahead Makeup
Max Pressure: 2000	30 BBL WATER, DYE IN 2ND 10

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results		Displacement: 169.00 bbls	
cuft of Shoe 19.10 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 1240.40 cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Hydrostatic Pressure: 1619.25 PSI	
Total Slurry Volume 1323.90 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Pressure of the fluids inside casing	
bbls of Slurry 235.79 bbls (Total Slurry Volume) X (.1781)		Displacement: 927.47 psi	
Sacks Needed 895 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		Shoe Joint: 32.46 psi	
Mix Water 159.31 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42		Total 959.93 psi	
		Differential Pressure: 659.32 psi	
		Collapse PSI: 2020.00 psi	
		Burst PSI: 3520.00 psi	
		Total Water Needed: 368.31 bbls	

X
Authorization To Proceed




Anadarko Petroleum Corporation
Meguire2

200181
Weld
Kirk Kallhoff
10/17/2017

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DESCRIPTION OF JOB EVENTS

X 
Authorized signature

X
Title

X 10-17-17
Date

SERIES 2000

PSI — Barrels / Minute — Barrels — Lbs / Gallon — Stage Volume

