

Bison Oil Well Cementing Single Cement Surface Pipe



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Date: 2/11/2019
Invoice # 200405
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation

Well Name: mab 15-3hz

County: Weld
State: Colorado

Sec: 30
Twp: 2N
Range: 65w

Consultant: bryan
Rig Name & Number: Cartel 88
Distance To Location: 33
Units On Location: 4047/4023/4041
Time Requested: 600 am
Time Arrived On Location: 330 am
Time Left Location: 16:00 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.) : 1,850	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1860	Gallons Per Sack: 7.40
Open Hole Diameter (in.) : 13.50	% Excess: 10%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit:
Shoe Joint Length (ft) : 41	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 8	H2O Wash Up (bbls): 10.0
Max Rate: 8	Spacer Ahead Makeup
Max Pressure: 2000	30 bbl with Die in 2nd 10

Casing ID 8.921	Casing Grade J-55 only used
Calculated Results	Displacement: 140.47 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 61.05 cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Pressure of cement in annulus
cuft of Casing 951.56 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Hydrostatic Pressure: 1364.75 PSI
Total Slurry Volume 1030.40 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Pressure of the fluids inside casing
bbls of Slurry 183.51 bbls (Total Slurry Volume) X (.1781)	Displacement: 780.01 psi
Sacks Needed 696 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Shoe Joint: 30.25 PSI
Mix Water 122.67 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total 810.25 psi
	Differential Pressure: 554.49 psi
	Collapse PSI: 2020.00 psi
	Burst PSI: 3520.00 psi
	Total Water Needed: 303.14 bbls

X

Authorization to Proceed

SERIES 2000

