

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/13/2019
Invoice #: 200388
API#:
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation
Well Name: ojb 15-17hz

County: Weld
State: Colorado
Sec: 30
Twp: 2N
Range: 65w
Consultant: bryan
Rig Name & Number: Cartel 88
Distance To Location: 33
Units On Location: 4047/4033/4027
Time Requested: 400 am
Time Arrived On Location: 100 am
Time Left Location: 7:30 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.) : 1,866	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1876	Gallons Per Sack: 7.40
Open Hole Diameter (in.) : 13.50	% Excess: 15%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit:
Shoe Joint Length (ft) : 40	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: 141.78 bbls	
cuft of Shoe 17.36 cuft		(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)	
(Casing ID Squared) X (.005454) X (Shoe Joint ft)		Pressure of cement in annulus	
cuft of Conductor 61.05 cuft		Hydrostatic Pressure: 1376.55 PSI	
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Pressure of the fluids inside casing	
cuft of Casing 1003.80 cuft		Displacement: 787.34 psi	
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Shoe Joint: 29.51 PSI	
Total Slurry Volume 1082.21 cuft		Total 816.84 psi	
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Differential Pressure: 559.70 psi	
bbls of Slurry 192.74 bbls		Collapse PSI: 2020.00 psi	
(Total Slurry Volume) X (.1781)		Burst PSI: 3520.00 psi	
Sacks Needed 731 sk		Total Water Needed: 310.62 bbls	
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)			
Mix Water 128.84 bbls			
(Sacks Needed) X (Gallons Per Sack) ÷ 42			

X
Authorization To Proceed

SERIES 2000

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

