



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/10/2015

Invoice # 80071

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: bane 27n2-9hz

County: Weld
State: Colorado

Sec: 9
Twp: 1n
Range: 65w

Consultant: tim

Rig Name & Number: advanced 10

Distance To Location: 26

Units On Location: 4038-3103/4030-3103

Time Requested: 1200 am

Time Arrived On Location: 1000 pm

Time Left Location: 3:00 pm

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.) :	1,577	Cement Yield (cuft) :	1.49
Total Depth (ft) :	1595	Gallons Per Sack:	7.48
Open Hole Diameter (in.) :	13.50	% Excess:	20%
Conductor Length (ft) :	40	Displacement Fluid lb/gal:	8.3
Conductor ID :	16	BBL to Pit:	
Shoe Joint Length (ft) :	42	Fluid Ahead (bbls):	30.0
Landing Joint (ft) :	8	H2O Wash Up (bbls):	10.0
Max Rate:		Spacer Ahead Makeup	
Max Pressure:			

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results		Displacement: 119.29 bbls (Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)	
cuft of Shoe	18.23 cuft	Pressure of cement in annulus	
(Casing ID Squared) X (.005454) X (Shoe Joint ft)		Hydrostatic Pressure: 1163.35 PSI	
cuft of Conductor	35.64 cuft	Pressure of the fluids inside casing	
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Displacement: 661.86 psi	
cuft of Casing	901.41 cuft	Shoe Joint: 30.98 psi	
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Total 692.85 psi	
Total Slurry Volume	955.28 cuft	Differential Pressure: 470.51 psi	
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Collapse PSI: 2020.00 psi	
bbls of Slurry	170.14 bbls	Burst PSI: 3520.00 psi	
(Total Slurry Volume) X (.1781)		Total Water Needed: 273.47 bbls	
Sacks Needed	641 sk		
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)			
Mix Water	114.18 bbls		
(Sacks Needed) X (Gallons Per Sack) ÷ 42			

BB Bryan Brown
Authorization To Proceed

M/D TOTCO 2000 SERIES

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

