



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/6/2018
 Invoice # 300124
 API# 05-123-46392
 Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: ZELDA 25-7HZ

County: Weld
 State: Colorado
 Sec: 25
 Twp: 2N
 Range: 65W

Consultant: LEVI
 Rig Name & Number: CARTEL 88
 Distance To Location: 34
 Units On Location: 4044-3106, 4030-3215
 Time Requested: 100
 Time Arrived On Location: 1200
 Time Left Location: 530

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.) : 1,862	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1872	Gallons Per Sack: 7.48
Open Hole Diameter (in.) : 12.25	% Excess: 15%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit: 18.0
Shoe Joint Length (ft) : 43	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 WATER, DYE IN 2ND 10

Calculated Results	Displacement: 141.25 bbls
cuft of Shoe 18.81 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 641.97 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Hydrostatic Pressure: 1373.94 PSI
Total Slurry Volume 721.83 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Pressure of the fluids inside casing
bbls of Slurry 128.56 bbls (Total Slurry Volume) X (.1781)	Displacement: 784.37 psi
Sacks Needed 488 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Shoe Joint: 31.97 psi
Mix Water 86.86 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total 816.35 psi
	Differential Pressure: 557.60 psi
	Collapse PSI: 2020.00 psi
	Burst PSI: 3520.00 psi
	Total Water Needed: 268.11 bbls

X
 Authorization To Proceed

ZELDA 25-7HZ SURFACDE

