



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/9/2014
 Invoice # 12232
 API# 05-125-09155
 Foreman: Aaron Carrasco

Customer: asgustus
 Well Name: galvin 24-14

County: yuma
 State: Colorado
 Sec: 24
 Twp: 3n
 Range: 46w

Consultant: justin stone
 Rig Name & Number: no rig
 Distance To Location: 60 miles
 Units On Location: 3101-4029-119
 Time Requested: 8am
 Time Arrived On Location: 8 am24
 Time Left Location: _____

WELL DATA	Cement Data
Casing Size OD (in) : <u>4.5</u>	Cement Name: <u>BFN III</u>
Casing Weight (lb) : <u>10.50</u>	Cement Density (lb/gal) : <u>15.2</u>
Casing Depth (ft.) : <u>460</u>	Cement Yield (cuft) : <u>1.07</u>
Total Depth (ft) : <u>460</u>	Gallons Per Sack: <u>4.20</u>
Open Hole Diameter (in.) : <u>9.88</u>	% Excess: <u>0%</u>
Conductor Length (ft) : <u>0</u>	Displacement Fluid lb/gal: <u>8.3</u>
Conductor ID : _____	BBL to Pit: <u>0.0</u>
Shoe Joint Length (ft) : <u>0</u>	Fluid Ahead (bbbls): <u>3.0</u>
Landing Joint (ft) : <u>9</u>	H2O Wash Up (bbbls): <u>20.0</u>
Max Rate: _____	Spacer Ahead Makeup
Max Pressure: _____	

Calculated Results	Displacement: <u>7.48</u> bbls (Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)
cuft of Shoe <u>0.00</u> cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	Pressure of cement in annulus
cuft of Conductor <u>0.00</u> cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Hydrostatic Pressure: <u>363.22</u> PSI
cuft of Casing <u>193.85</u> cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Pressure of the fluids inside casing
Total Slurry Volume <u>193.85</u> cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Displacement: <u>198.34</u> psi
bbbls of Slurry <u>34.52</u> bbls (Total Slurry Volume) X (.1781) X (% Excess Cement)	Shoe Joint: <u>0.00</u> psi
Sacks Needed <u>181</u> sk <i>140 sks ← used</i> (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Total <u>198.34</u> psi
Mix Water <u>18.12</u> bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Differential Pressure: <u>164.87</u> psi
	Collapse PSI: <u>#N/A</u> psi
	Burst PSI: <u>#N/A</u> psi
	Total Water Needed: <u>48.60</u> bbls

X

Authorization To Proceed