



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/7/2018
Invoice # 900276
API# 05-123-46264
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation
Well Name: Quarter Circle 24-1 HZ

County: Weld
State: Colorado
Sec: 24
Twp: 1N
Range: 67W
Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 33
Units On Location: 4027-3103/4030-3213/4024-3201
Time Requested: 200
Time Arrived On Location: 1245
Time Left Location:

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.) : 1,858	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1868	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) : 44	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 15	H2O Wash Up (bbls): 20.0
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: 141.40 bbls (Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)
cuft of Shoe 19.10 cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	Pressure of cement in annulus
cuft of Conductor 61.05 cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Hydrostatic Pressure: 1370.65 PSI
cuft of Casing 955.86 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Pressure of the fluids inside casing
Total Slurry Volume 1036.01 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Displacement: 782.16 psi
bbls of Slurry 184.51 bbls (Total Slurry Volume) X (.1781)	Shoe Joint: 32.46 PSI
Sacks Needed 700 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Total 814.62 psi
Mix Water 123.33 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Differential Pressure: 556.03 psi
	Collapse PSI: 2020.00 psi
	Burst PSI: 3520.00 psi
	Total Water Needed: 314.73 bbls

X Kully
Authorization To Proceed



Anadarko Petroleum Corporation
Quarter Circle 24-1 HZ

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Weld
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DESCRIPTION OF JOB EVENTS

X 
Work Performed

X WSL

X 4/7/18

Quarter Circle 24-1 HZ

