



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 5/15/2018
 Invoice #: 200282
 API#
 Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
 Well Name: english farms 8-8hz

County: Weld
 State: Colorado
 Sec: 8
 Twp: 1n
 Range: 65w

Consultant: bryan
 Rig Name & Number: CARTEL 88
 Distance To Location: 38
 Units On Location: 1
 Time Requested: 830 am
 Time Arrived On Location: 630 am
 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.) :	1,863	Cement Yield (cuft) :	1.48
Total Depth (ft) :	1873	Gallons Per Sack:	7.48
Open Hole Diameter (in.) :	12.25	% Excess:	20%
Conductor Length (ft) :	80	Displacement Fluid lb/gal:	8.3
Conductor ID :	15.5	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 WATER, DYE IN 2ND 10	

Calculated Results	Displacement:	141.55 bbls
cuft of Shoe 17.36 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 64.40 cuft (Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Pressure of cement in annulus	
cuft of Casing 670.08 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Hydrostatic Pressure:	1374.34 PSI
Total Slurry Volume 751.84 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Pressure of the fluids inside casing	
bbls of Slurry 133.90 bbls (Total Slurry Volume) X (.1781)	Displacement:	786.04 psi
Sacks Needed 508 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Shoe Joint:	29.51 psi
Mix Water 90.47 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total	815.55 psi
	Differential Pressure:	558.78 psi
	Collapse PSI:	2020.00 psi
	Burst PSI:	3520.00 psi
	Total Water Needed:	272.02 bbls

X Authorization To Proceed

SERIES 2000

