



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/30/2017
 Invoice #: 900200
 API#: 05-123-45090
 Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: Newby State 34N-3HZ

County: Weld
 State: Colorado
 Consultant: Matt
 Rig Name & Number: Cartel 88
 Distance To Location: 30
 Units On Location: 1027/3103-4033/3212-4020/321
 Sec: 33
 Twp: 3N
 Range: 68W
 Time Requested: 500
 Time Arrived On Location: 410
 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.) : 2,312	Cement Yield (cuft) : 1.48
Total Depth (ft) : 2322	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

Calculated Results	Displacement: 176.49 bbls
cuft of Shoe 19.10 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 Hydrostatic Pressure: 1705.56 PSI
cuft of Casing 1199.93 cuft (Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Pressure of the fluids inside casing Displacement: 977.92 psi Shoe Joint: 32.46 psi Total: 1010.38 psi
Total Slurry Volume 1280.08 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Differential Pressure: 695.18 psi
bbls of Slurry 227.98 bbls (Total Slurry Volume) X (.1781)	Collapse PSI: 2020.00 psi Burst PSI: 3520.00 psi
Sacks Needed 865 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Total Water Needed: 378.88 bbls
Mix Water 152.39 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	

Authorization To Proceed



**BISON Oil Well Cementing
Single Cement Surface Pipe**

Customer
Well Name

Anadarko Petroleum Corporation
Newby State 34N-3HZ


INVOICE #
LOCATION
FOREMAN
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900200
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DESCRIPTION OF JOB EVENTS

Amount Pumped	Time	Event	Description	Rate	BBLs	Pressure
% Excess 10%	415	What rig is doing upon Bison Arrival	Running Casing			
Mixed bbls 152.39	420	JSA	Bison Crew			
Total Sacks 865	430	Rig up				
bbl Returns 25	810	Safety Meeting	Bison and Rig crew			
Water Temp 62	845	Start Job				
	847	Pressure Test				
Notes:						
	849	Spacer Ahead	2nd 10 with die	6	30	100
	857	Lead Cement	14.2 ppg	7	227	110
	1000	Shutdown				
	1004	Drop Plug	Preloaded in plug container			
	1006	Start Displacement		7	90	270
	1030	Bump Plug	500 over final lift 1210 psi	2	176	600
	1032	Floats Held	Held for 2 MIN with .5 bll back			
	1034	End Job				
	1045	Rig Down				
	1115	Leave Location				

X 

X
Title _____

X
Date _____

Work Performed

Newby State 34N-3HZ

