



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/9/2014
Invoice #: 25100
API#: 05-123-40577
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Adder 29C-14HZ

County: Weld
State: Colorado
Sec: 22
Twp: 2N
Range: 67W
Consultant: Ellis
Rig Name & Number: Major 29
Distance To Location: 19 Miles
Units On Location: 4023-3104/4032-3210
Time Requested: 900pm
Time Arrived On Location: 645pm
Time Left Location: 11:15pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,174
Total Depth (ft) : 1190
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 8

Max Rate: 5
Max Pressure: 2500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 16%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 22
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30bbls H2O+Dye in 2nd 10bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.77 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 0.00 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 666.61 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 685.38 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 122.07 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 460 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 81.92 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 88.07 bbls

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 866.36 PSI

Pressure of the fluids inside casing

Displacement: 487.74 psi

Shoe Joint: 31.90 psi

Total 519.64 psi

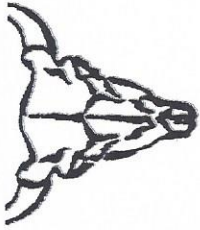
Differential Pressure: 346.72 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 219.99 bbls

X
Authorization To Proceed



WORK ON WELL CEMENTING
Single Cement Surface Pipe

INVOICE # 43100
LOCATION Weld
FOREMAN Calvin Reimers
Date 12/9/2014

Customer Anadarko Petroleum Corporation
Well Name Adder 29C-14HZ

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DESCRIPTION OF JOB EVENTS

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BbLS	Time	PSI	BbLS	Time	PSI	BbLS	Time	PSI	BbLS	Time	PSI	BbLS	Time	PSI
Safety Meeting	848pm														
MIRU	650pm														
CIRCULATE	938pm														
Drop Plug															
1014pm															
M & P															
Time	Sacks														
943pm	460														
1012pm															
% Excess	16%														
Mixed bbls	81.92														
Total Sacks	460														
bbl Returns	22														
Water Temp	45.6														

Notes:

The day

1/2 bbl Back on Bleed Off

X

Work Performed

X

Title

X

Date

SERIES 2000

