



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

Customer  
Well Name

bill barrett  
pappenheim 6-62-27-3225 bh2

INVOICE #  
LOCATION  
FOREMAN  
Date

12053  
weld  
Kirk Kallhoff  
6/29/2014

Treatment Report Page 2

**DESCRIPTION OF JOB EVENTS**

Safety Meeting MIRU CIRCULATE Drop Plug 204 pm M & P Time Sacks 143 pm 201 pm stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	118pm 1210pm 128pm	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
		0	204pm	10	0			0			0			0		
		10	206pm	40	10			10			10			10		
		20	209pm	40	20			20			20			20		
		30	212pm	100	30			30			30			30		
		40	215pm	190	40			40			40			40		
		50	217pm	290	50			50			50			50		
		60			60			60			60			60		
		70			70			70			70			70		
		80			80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

bumped plug at 221 pm 480 psi

80 bbls slurry

X

Work Preformed

X

Title

X

Date



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/29/2014

Invoice # 12053

API#

Foreman: Kirk Kallhoff

Customer: bill barrett

Well Name: pappenheim 6-62-27-3225 bh2

County: weld

State: Colorado

Sec: 27

Twp: 6n

Range: 62w

Consultant: casey

Rig Name & Number: major 43

Distance To Location: 30

Units On Location: 3103-3211

Time Requested: 1230 pm

Time Arrived On Location: 1200 pm

Time Left Location: 3:00 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 799  
Total Depth (ft) : 810  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 43  
Landing Joint (ft) : 8

Max Rate:

Max Pressure:

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 15.2  
Cement Yield (cuft) : 1.27  
Gallons Per Sack: 5.89  
% Excess: 30%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 60.0  
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 18.66 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 507.64 cuft

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

Total Slurry Volume 526.31 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 93.74 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 414 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 58.12 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 59.06 bbls

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

## Pressure of cement in annulus

Hydrostatic Pressure: 630.89 PSI

## Pressure of the fluids inside casing

Displacement: 325.97 psi

Shoe Joint: 33.95 psi

Total 359.93 psi

Differential Pressure: 270.96 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 197.18 bbls

X *Casey*  
Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.