



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/18/2015
Invoice #: 25130
API#: 05-123-40837
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation

Well Name: Green 1N-8HZ

County: Weld
State: Colorado
Sec: 8
Twp: 1N
Range: 65W

Consultant: Lester/Don
Rig Name & Number: Major 42
Distance To Location: 23 Miles
Units On Location: 4023-3104/4035-3204
Time Requested: 430pm
Time Arrived On Location: 340pm
Time Left Location: 9:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,546
Total Depth (ft) : 1562
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 85
Conductor ID : 16
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 16
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 18.78 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 75.73 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 788.53 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 883.04 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 157.27 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 593 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 105.55 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 116.79 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1140.42 PSI

Pressure of the fluids inside casing

Displacement: 647.91 psi

Shoe Joint: 31.91 psi

Total 679.83 psi

Differential Pressure: 460.59 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 272.33 bbls

X
Authorization To Proceed



Displacement Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Green 1N-8HZ

INVOICE #
LOCATION
FOREMAN
Date

20150
Weld
Calvin Reimers
1/18/2015

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DESCRIPTION OF JOB EVENTS

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	631pm	0	742pm	50	0			0			0			0		
Drop Plug	345pm	10	744pm	30	10			10			10			10		
741pm	651pm	20	746pm	40	20			20			20			20		
		30	749pm	40	30			30			30			30		
		40	751pm	140	40			40			40			40		
M & P		50	752pm	200	50			50			50			50		
Time	Sacks	60	754pm	270	60			60			60			60		
657pm	593	70	756pm	330	70			70			70			70		
738pm		80	757pm	390	80			80			80			80		
		90	759pm	440	90			90			90			90		
		100	800pm	490	100			100			100			100		
		110	802pm	500	110			110			110			110		
% Excess	10%	120	808pm	440	120			120			120			120		
Mixed bbls	105.55	130	Bump	1410	130			130			130			130		
Total Sacks	593	140			140			140			140			140		
bbl Returns	16	150			150			150			150			150		
Water Temp	50.6															

Notes:

The day

1/2 bbl Back on Bleed Off

X

Work Preformed

X

Title

X

Date

SERIES 2000

