



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/20/2015
Invoice #: 25131
API#: 05-123-40839
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Green 1C-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: 4023-3104/4030-3203
Time Requested: 600pm
Time Arrived On Location: 500pm
Time Left Location: 12:00am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,558
Total Depth (ft) : 1574
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: 8
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		Displacement: 117.71 bbls	
cuft of Shoe 18.76 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 75.73 cuft (Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Pressure of cement in annulus	
cuft of Casing 794.95 cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Hydrostatic Pressure: 1149.20 PSI	
Total Slurry Volume 889.44 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Pressure of the fluids inside casing	
bbls of Slurry 158.41 bbls (Total Slurry Volume) X (.1781)		Displacement: 653.07 psi	
Sacks Needed 597 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		Shoe Joint: 31.88 psi	
Mix Water 106.31 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42		Total 684.94 psi	
		Differential Pressure: 464.25 psi	
		Collapse PSI: 2020.00 psi	
		Burst PSI: 3520.00 psi	
		Total Water Needed: 274.02 bbls	



Authorization To Proceed



DISPERSEMENT OF CEMENT
Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Green 1C-8HZ

INVOICE #
LOCATION
FOREMAN
Date

20151
Weld
Calvin Reimers
1/20/2015

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DESCRIPTION OF JOB EVENTS

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	948pm	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	855pm	0	1054pm	60	0			0			0			0		
Drop Plug	1013pm	10	1057pm	50	10			10			10			10		
		20	1059pm	50	20			20			20			20		
		30	1101pm	50	30			30			30			30		
		40	1102pm	120	40			40			40			40		
M & P		50	1104pm	180	50			50			50			50		
Time	Sacks	60	1105pm	240	60			60			60			60		
1019pm	597	70	1107pm	300	70			70			70			70		
1050pm		80	1109pm	400	80			80			80			80		
		90	1110pm	460	90			90			90			90		
		100	1112pm	510	100			100			100			100		
		110	1113pm	520	110			110			110			110		
% Excess	10%	120	1116pm	380	120			120			120			120		
Mixed bbls	106.31	130	Bump	1280	130			130			130			130		
Total Sacks	597	140			140			140			140			140		
bbl Returns	8	150			150			150			150			150		
Water Temp	46.1															

Notes:

The day

1/2 bbl Back on Bleed Off

X

Work Performed

X

Title

X

Date

SERIES 2000

