



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/4/2014
Invoice #: 35081
API#:
Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: barclay 3n-14hz

County: Weld
State: Colorado
Sec: 14
Twp: 2n
Range: 67w

Consultant: toby
Rig Name & Number: major 42
Distance To Location: 20
Units On Location: 4030-3103/4018-3204
Time Requested: 1100 am
Time Arrived On Location: 930 am
Time Left Location: 1:00 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,114
Total Depth (ft) : 1124
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 39
Landing Joint (ft) : 8

Max Rate:
Max Pressure:

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:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 16.93 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 631.56 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 648.48 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 115.49 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 435 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 77.51 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 83.72 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 821.80 PSI

Pressure of the fluids inside casing

Displacement: 463.52 psi

Shoe Joint: 28.77 psi

Total 492.29 psi

Differential Pressure: 329.51 psi

Collapse PSI: 2020.00 psi

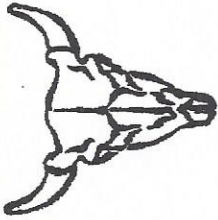
Burst PSI: 3520.00 psi

Total Water Needed: 211.24 bbls

X

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.



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INVOICE #
LOCATION
FOREMAN
Date

35081
Weld
kirk kallhoff
12/4/2014

Customer
Well Name

Anadarko Petroleum Corporation
barclay 3n-14hz

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
Safety Meeting	1115a															
MIRU	1030a															
CIRCULATE	1134a	0	1208p	10	0			0			0			0		
Drop Plug		10	1211p	60	10			10			10			10		
1208 pm		20	1213p	60	20			20			20			20		
		30	1215p	160	30			30			30			30		
		40	1217p	230	40			40			40			40		
		50	1219p	300	50			50			50			50		
M & P		60	1221p	370	60			60			60			60		
Time	Sacks	70	1223p	410	70			70			70			70		
1141 am	435	80	1226p	370	80			80			80			80		
1205 pm stop		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		
% Excess	16%															
Mixed bbls	77.5															
Total Sacks	435															
bbl Returns	23															
Water Temp																

Notes:

bumped plug at 1228 pm at 1380 psi

floats held

X

Work Performed

X

Title

X

Date

12-14-14

M/D TOTCO 2000 SERIES

