

Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/10/2014

Invoice # 35085

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: cobra 4n-14hz

County: Weld

State: Colorado

Sec: 22

Twp: 2n

Range: 67w

Consultant: toby

Rig Name & Number: major 42

Distance To Location: 20

Units On Location: 4030-3103/4020-3212

Time Requested: 900 am

Time Arrived On Location: 830 am

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,186
Total Depth (ft) : 1204
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 41
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 17.80 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 672.37 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 690.17 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 122.92 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 463 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 82.49 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 89.14 bbls

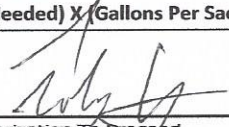
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

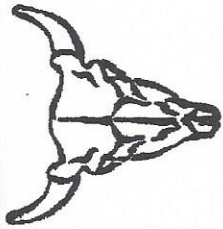
Hydrostatic Pressure: 874.91 PSI

Pressure of the fluids inside casing

Displacement: 493.70 psi**Shoe Joint:** 30.25 psi**Total** 523.95 psi**Differential Pressure:** 350.96 psi**Collapse PSI:** 2020.00 psi**Burst PSI:** 3520.00 psi**Total Water Needed:** 221.63 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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Single Cement Surface Pipe

INVOICE #
LOCATION
FOREMAN
Date

35085
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Customer
Well Name

Anadarko Petroleum Corporation
cobra 4n-14hz

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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	1025a														
MIRU	935am														
CIRCULATE	1039a														
Drop Plug															
1114 am															
M & P															
Time	Sacks														
1045 am	463														
1110 am stop															
% Excess	16%														
Mixed bbls	82.5														
Total Sacks	463														
bbl Returns	35														
Water Temp															

Notes:

bumped plug at 1134 am at 1390 psi

floats held

X

X

X 12-10-14

Work Performed

Title

Date

M/D TOTCO 2000 SERIES

