

Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/3/2014

Invoice # 35080

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: barclay 15n-26hz

County: Weld

State: Colorado

Sec: 14

Twp: 2n

Range: 67w

Consultant: toby

Rig Name & Number: major 42

Distance To Location: 20

Units On Location: 4034-3103/4018-3204

Time Requested: 1200 pm

Time Arrived On Location: 1045 am

Time Left Location: 2:45 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,108
Total Depth (ft) : 1120
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 40
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 17.36 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 628.15 cuft

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

Total Slurry Volume 645.52 cuft

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

bbls of Slurry 114.97 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 433 sk

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

Mix Water 77.16 bbls

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

Displacement: 83.18 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 817.37 PSI

Pressure of the fluids inside casing

Displacement: 460.50 psi

Shoe Joint: 29.51 psi

Total 490.01 psi

Differential Pressure: 327.36 psi

Collapse PSI: 2020.00 psi

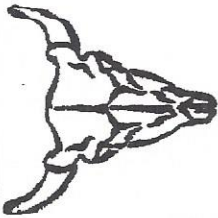
Burst PSI: 3520.00 psi

Total Water Needed: 210.34 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.



Bison Oil Well Cementing Single Cement Surface Pipe

INVOICE #
LOCATION
FOREMAN
Date

35080
Weld
kirk kallhoff
12/3/2014

Customer
Well Name

Anadarko Petroleum Corporation
barclay 15n-26hz

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	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
Safety Meeting	1257p														
MIRU	1210p														
CIRCULATE	1145pm														
Drop Plug															
149 pm															
M & P															
Time	Sacks														
121 pm	433														
146 pm stop															
% Excess	16%														
Mixed bbls	77.2														
Total Sacks	433														
bbbl Returns	21														
Water Temp															

Notes:

bumped plug at 210pm at 1360 psi

floats held

X 12-3-14
Date

X Co-man
Title

X Maj 42
Work Reformed

M/D TOTCO 2000 SERIES

