



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 11/5/2014

Invoice # 35065

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: gee 2c-12hz

County: Weld

State: Colorado

Sec: 24

Twp: 2n

Range: 67w

Consultant: elis

Rig Name & Number: major 29

Distance To Location: 18

Units On Location: 4030-3103/4020-3210

Time Requested: 1100 am

Time Arrived On Location: 1000 am

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625

Casing Weight (lb) : 36.00

Casing Depth (ft) : 1,032

Total Depth (ft) : 1043

Open Hole Diameter (in.) : 13.50

Conductor Length (ft) :

Conductor ID :

Shoe Joint Length (ft) : 42

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: 21%

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 18.23 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 610.29 cuft

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

Total Slurry Volume 628.52 cuft

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

bbls of Slurry 111.94 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 422 sk

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

Mix Water 75.12 bbls

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

Displacement: 77.15 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 761.31 PSI

Pressure of the fluids inside casing

Displacement: 426.87 psi

Shoe Joint: 30.98 psi

Total 457.85 psi

Differential Pressure: 303.45 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 202.28 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**

Customer
Well Name

Anadarko Petroleum Corporation
gee 2c-12hz

INVOICE #
LOCATION
FOREMAN
Date

35065
Weld
Kirk Kallhoff
11/5/2014

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug 543pm M & P Time 515 pm 540 pm stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	440pm 400pm 508pm 543pm M & P Time 515 pm 540 pm stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	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
		0	543pm	10	0			0			0			0		
		10	546pm	40	10			10			10			10		
		20	549pm	50	20			20			20			20		
		30	551pm	140	30			30			30			30		
		40	553pm	200	40			40			40			40		
		50	555pm	260	50			50			50			50		
		60	557pm	320	60			60			60			60		
		70	559pm	340	70			70			70			70		
		80			80			80			80			80		
		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		

Notes:

bumped plug at 603 pm 1350 psi at 78 bbls 111.9 bbls slurry

floats held

X

Work Performed

X

Title

X

Date

11-5-14

M/D TOTCO 2000 SERIES

