



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/11/2015

Invoice # 80058

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: cream 36n-28hn

County: Weld

State: Colorado

Sec: 28

Twp: 3n

Range: 65w

Consultant: toby

Rig Name & Number: advanced 10

Distance To Location: 10

Units On Location: 4038-3103/4032-3210

Time Requested: 330 am

Time Arrived On Location: 130 am

Time Left Location: 8:30 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,179
Total Depth (ft) : 1197
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 45
Conductor ID : 16
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: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

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 40.09 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 665.06 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 722.08 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 128.60 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 485 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 86.31 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 88.75 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 869.75 PSI

Pressure of the fluids inside casing

Displacement: 491.55 psi

Shoe Joint: 28.77 psi

Total 520.32 psi

Differential Pressure: 349.43 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 215.06 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
cream 36n-28hn

INVOICE #
LOCATION
FOREMAN
Date

80058
Weld
kirk kallhoff
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Treatment Report Page 2


DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug 723 am M & P Time Sacks 649 am 720 am stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	620am 130am 643am 723 am M & P Time Sacks 649 am 720 am 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	723am	10	0			0			0			0		
		10	726am	70	10			10			10			10		
		20	728am	70	20			20			20			20		
		30	730am	120	30			30			30			30		
		40	732am	190	40			40			40			40		
		50	734am	250	50			50			50			50		
		60	736am	300	60			60			60			60		
		70	738am	380	70			70			70			70		
		80	740am	390	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 745 am 900 psi

floats held

X 
Work Performed

X _____
Title

X 3-11-15
Date

M/D TOTCO 2000 SERIES

