



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/27/2019
Invoice #: 200445
API#
Foreman: KirkKallhoff

Customer: Anadarko Petroleum Corporation
Well Name: carson 1-6hz

County: Weld
State: Colorado
Sec: 8
Twp: 1n
Range: 65w
Consultant: tyler
Rig Name & Number: Cartel 88
Distance To Location: 38
Units On Location: 4047/4039/4044
Time Requested: 1000 pm
Time Arrived On Location: 830 pm
Time Left Location: 12:30 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,825
Total Depth (ft) : 1835
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 19.125
Shoe Joint Length (ft) : 41
Landing Joint (ft) : 8
Max Rate: 8
Max Pressure: 2000

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.48
Gallons Per Sack: 7.40
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0
Spacer Ahead Makeup
30 bbl with Die in 2nd 10

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 119.17 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 980.76 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1117.72 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 199.07 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 755 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 133.06 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 138.54 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1346.30 PSI

Pressure of the fluids inside casing

Displacement: 769.23 psi

Shoe Joint: 30.25 PSI

Total 799.47 psi

Differential Pressure: 546.83 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 311.60 bbls

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.



Customer
Well Name

Anadarko Petroleum Corporation
carson 1-6hz

INVOICE #

200445

LOCATION

Weld

FOREMAN

KirkKallhoff

Date _____

4/27/2019

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DESCRIPTION OF JOB EVENTS

X	<i>John H. Pugh</i>	X		X	4-28-19
Work Performed		Title		Date	

SERIES 2000

