



Bison Oil Well Cementing Tail & Lead

Customer: Noble Energy Inc.
Well Name: Hurley H26-730

Date: 7/11/2018
Invoice #: 900323
API#: 05-123-467763
Foreman: Corey Barras

County: Weld
State: Colorado

Sec: 8
Twp: 5N
Range: 62W

Consultant: Matt Rosales
Rig Name & Number: H&P 517
Distance To Location: 23
Units On Location: 4027/3103-4039/3214-4030/3215
Time Requested: 500
Time Arrived On Location: 345
Time Left Location:

WELL DATA

Casing Size (in) : 9.625
Casing Weight (lb) : 36
Casing Depth (ft.) : 1,941
Total Depth (ft) : 1951
Open Hole Diameter (in) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.15
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 6

Sacks of Tail Requested 100
HOC Tail (ft): 0

One or the other, cannot have quantity in both

Max Rate: 8
Max Pressure: 2500

Cement Data

Lead

Cement Name: BFN III
Cement Density (lb/gal) : 13.5
Cement Yield (cuft) : 1.68
Gallons Per Sack 8.90
% Excess 15%

Tail Type III

Cement Name:
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.80
% Excess: 0%

Fluid Ahead (bbls) 30.0
H2O Wash Up (bbls) 20.0

Spacer Ahead Makeup

30 BBL ahead with Die in 2nd 10

Casing ID

8.921

Casing Grade

J-55 only used

Lead Calculated Results

HOC of Lead 1630.67 ft
Casing Depth - HOC Tail
Volume of Lead Cement 796.96 cuft
HOC of Lead X Open Hole Ann
Volume of Conductor 59.72 cuft
(Conductor ID Squared) - (Casing Size OD Squared) X (.005454) X
(Conductor Length ft)
Total Volume of Lead Cement 856.68 cuft
(cuft of Lead Cement) + (Cuft of Conductor)
bbls of Lead Cement 175.46 bbls
(Total cuft of Lead Cement) X (.1781) X (1+%Lead Excess)
Sacks of Lead Cement 586.42 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
bbls of Lead Mix Water 124.26 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42
Displacement 147.41 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth) + (Landing Joint) - (Shoe
Length)
Total Water Needed: 335.49 bbls

Tail Calculated Results

Tail Cement Volume In Ann 127.00 cuft
(HOC Tail) X (OH Ann)
Total Volume of Tail Cement 109.64 Cuft
(HOC Tail X OH Ann) - (Shoe Length X Shoe Joint Ann)
bbls of Tail Cement 22.62 bbls
(HOC of Tail) X (OH Ann) + (Cement Yield) X (Shoe Joint Ann) X (.1781) X (%
Excess)
HOC Tail 224.33 ft
(Tail Cement Volume) ÷ (OH Ann)
Sacks of Tail Cement 100.00 sk
(Total Volume of Tail Cement) ÷ (Cement Yield)
bbls of Tail Mix Water 13.81 bbls
(Sacks of Tail Cement X Gallons Per Sack) ÷ 42
Pressure of cement in annulus
Hydrostatic Pressure 585.23 PSI
Collapse PSI: 2020.00 psi
Burst PSI: 3520.00 psi

Authorization To Proceed



Customer
Well Name

Noble Energy Inc.
Hurley H26-730

Date _____
INVOICE # _____
LOCATION _____
FOREMAN _____

7/11/2018

900323

Weld

Corey Barras

Treatment Report Page 2

x Amy Steptoe
Work Preformed

X WSS
Title

X 4-11-18
Date

Hurley H26-730

