



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 11/1/2017
Invoice # 900203
API# 05-123-44563
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: Newby State 30N-34HZ

County: Weld
State: Colorado
Sec: 33
Twp: 3N
Range: 68W

Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 30
Units On Location: 1027/3103-4033/3212-4020/321
Time Requested: 2100
Time Arrived On Location: 2030
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 782
Total Depth (ft) : 792
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 15
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0
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 19.10 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 61.05 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 377.40 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 457.55 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 81.49 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 309 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 54.47 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 58.21 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 576.88 PSI

Pressure of the fluids inside casing

Displacement: 318.21 psi

Shoe Joint: 32.46 psi

Total 350.67 psi

Differential Pressure: 226.21 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 162.68 bbls

X
Authorization To Proceed



**Bison Oil Well Cementing
Single Cement Surface Pipe**

Customer
Well Name

Anadarko Petroleum Corporation
Newby State 30N-34HZ

INVOICE #
LOCATION
FOREMAN
Date

900203
Weld
Corey B.
11/2/2017

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DESCRIPTION OF JOB EVENTS

Amount Pumped	Time	Event	Description	Rate	BBLs	Pressure
% Excess 10%	2030	What rig is doing upon Bison Arrival	Running Casing			
Mixed bbls 54.47	2040	JSA	Bison Crew			
Total Sacks 309	2100	Rig up				
bbl Returns 5	200	Safety Meeting	Bison and Rig crew			
Water Temp 59	225	Start Job				
	227	Pressure Test				
Notes:						
	229	Spacer Ahead	2nd 10 with die	6	30	90
	235	Lead Cement	14.2 ppg	7	81	150
	250	Shutdown				
	252	Drop Plug	Preloaded in plug container			
	254	Start Displacement				
	304	Bump Plug	500 over final lift 690	2	58	210
	306	Floats Held	Held for 2 MIN with .5 bll back			
	308	End Job				
	315	Rig Down				
	345	Leave Location				

X *[Signature]*
Work Performed

X WSC
Title

X 11/2/17
Date

Newby State 30N-34HZ

