



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/29/2017
Invoice #: 900199
API#: 05-123-45092
Foreman: Corey B.

Customer: Anadarko Petroleum Corporation
Well Name: Newby State 38N-4HZ

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: 630
Time Arrived On Location: 530
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 2,277
Total Depth (ft) : 2287
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 1181.11 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1261.26 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 224.63 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 852 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 150.15 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 173.79 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1679.74 PSI

Pressure of the fluids inside casing

Displacement: 962.83 psi

Shoe Joint: 32.46 psi

Total 995.29 psi

Differential Pressure: 684.46 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 373.94 bbls

Authorization To Proceed



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

Customer
Well Name

Anadarko Petroleum Corporation
Newby State 38N-4HZ

INVOICE #
LOCATION
FOREMAN
Date


900199
Weld
Corey B.
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DESCRIPTION OF JOB EVENTS

Amount Pumped	Time	Event	Description	Rate	BBLs	Pressure
% Excess 10%	530	What rig is doing upon Bison Arrival	Running Casing			
Mixed bbls 150.21	540	JSA	Bison Crew			
Total Sacks 853	550	Rig up				
bbl Returns 23	1030	Safety Meeting	Bison and Rig crew			
Water Temp 62	1110	Start Job				
	1112	Pressure Test				
Notes:						
	1114	Spacer Ahead	2nd 10 with die	6	30	100
	1120	Lead Cement	14.2 ppg	7	224	101
	1158	Shutdown				
	1200	Drop Plug	Preloaded in plug container			
	1202	Start Displacement		7	90	270
	1228	Bump Plug	500 over final lift 1210 psi	2	173	630
	1230	Floats Held	Held for 2 MIN with .5 bbl back			
	1232	End Job				
	1245	Rig Down				
	1315	Leave Location				

X 
Work Performed

X 
Title

X
Date

Newby State 38N-4HZ

