



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 8/23/2014
Invoice #: 25040
API#: 05-123-39588
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Douthit 40H-27HZ

County: Weld
State: Colorado
Sec: 26
Twp: 3N
Range: 68W

Consultant: Ellis
Rig Name & Number: Major 29
Distance To Location: 17 Miles
Units On Location: 4034-3104/4024-3203
Time Requested: 400am
Time Arrived On Location: 145am
Time Left Location: 5:30am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,233
Total Depth (ft) : 1245
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 8

Max Rate: 7
Max Pressure: 2500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 16%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 10
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30 bbls H2O+Dye in 2nd 10 bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.36 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 0.00 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 696.61 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 714.97 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 127.34 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 480 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 85.46 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 92.67 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 909.58 PSI

Pressure of the fluids inside casing

Displacement: 513.40 psi

Shoe Joint: 31.21 psi

Total 544.62 psi

Differential Pressure: 364.97 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 228.13 bbls

X *Calvin Reimers* Major 29
Authorization To Proceed



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

Customer
Well Name

Anadarko Petroleum Corporation
Douthit 40H-27HZ

INVOICE #
LOCATION
FOREMAN
Date

25040
Weld
Calvin Reimers
8/23/2014

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DESCRIPTION OF JOB EVENTS

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE		0	422am	50	0			0			0			0		
Drop Plug		10	425am	30	10			10			10			10		
421am		20	427am	30	20			20			20			20		
		30	429am	60	30			30			30			30		
		40	431am	130	40			40			40			40		
M & P		50	433am	190	50			50			50			50		
Time Sacks		60	434am	260	60			60			60			60		
356am	480	70	436am	320	70			70			70			70		
418am		80	438am	390	80			80			80			80		
		90	440am	380	90			90			90			90		
		100	442am	370	100			100			100			100		
		110	Bump	1360	110	444am		110			110			110		
% Excess	16%	120	Bump	1010	120	446am		120			120			120		
Mixed bbls	85.48	130			130			130			130			130		
Total Sacks	480	140			140			140			140			140		
bbl Returns	10	150			150			150			150			150		
Water Temp	68															

Notes:

The day

1/2 BBL Back on Bleed Off

X Ellis Lomax Major 29
Work Preformed

X _____
Title

X _____
Date

SERIES 2000

