



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/8/2015
Invoice #: 80027
API#: 05-123-41307
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Bane 2N2-9HZ

County: Weld
State: Colorado
Sec: 9
Twp: 1N
Range: 65W

Consultant: Toby / Larry
Rig Name & Number: Advanced 10
Distance To Location: 26 Miles
Units On Location: 4023-3104/4030-3203
Time Requested: 430am
Time Arrived On Location: 235am
Time Left Location: 6:30 Am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,575
Total Depth (ft) : 1590
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 45
Conductor ID : 16
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 8

Max Rate: 6
Max Pressure: 1750

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 25
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

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

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.85 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 40.09 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 897.21 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 956.15 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 170.29 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 642 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 114.29 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 119.01 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1161.75 PSI

Pressure of the fluids inside casing

Displacement: 660.32 psi

Shoe Joint: 32.03 psi

Total 692.35 psi

Differential Pressure: 469.41 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 283.29 bbls

X *Forrest*
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.



DISON Oil Well Cementing Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Bane 2N2-9HZ

INVOICE #
LOCATION
FOREMAN
Date

80027
Weld
Calvin Reimers
4/8/2015

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DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug 514am M & P Time Sacks 441am 511am % Excess Mixed bbls Total Sacks bbl Returns Water Temp	413am 235am 435am 514am M & P Time Sacks 441am 511am % Excess Mixed bbls Total Sacks bbl Returns Water Temp	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
		0	515am	70	0			0			0			0		
		10	517am	30	10			10			10			10		
		20	519am	60	20			20			20			20		
		30	521am	110	30			30			30			30		
		40	523am	180	40			40			40			40		
		50	525am	240	50			50			50			50		
		60	526am	290	60			60			60			60		
		70	528am	350	70			70			70			70		
		80	530am	410	80			80			80			80		
		90	532am	480	90			90			90			90		
		100	533am	500	100			100			100			100		
		110	535am	490	110			110			110			110		
		120	538am	450	120			120			120			120		
		130	Bump	970	130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

The day

1/2 bbl Back on Bleed Off

PSI Test 433am 1000psi, Cidr 435am 30 bbls wiyh Dye in 2nd 10 bbls, Cement 441am 642 sks 170.29 bbls Slurry at 14.2 lb 1.49 Yield, Shut Down 511am,

Drop Plug 514am, Displace 515am 119.01 bbls, Land Plug 538am, Float Held, 25 bbls Slurry to Surface.

X

Work Performed

X

Title

X

Date

SERIES 2000

