



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 7/24/2014
Invoice #: 45008
API#: 05-123-39232
Foreman: JASON

Customer: Anadarko Petroleum Corporation
Well Name: BAREFOOT 34C-25HZ

County: Weld
State: Colorado
Sec: 25
Twp: 3N
Range: 68W
Consultant: ELLIS
Rig Name & Number: MAJORS 42
Distance To Location: 17
Units On Location: 4031-3106/ 4019-3204
Time Requested: 30
Time Arrived On Location: 2300
Time Left Location: 430

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,312
Total Depth (ft) : 1322
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 6

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: 15.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
1 BBL H2O WITH, 2ND 10 WITH DYE

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.40 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 741.24 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 759.64 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 135.29 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 510 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 90.80 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 98.62 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 967.86 PSI

Pressure of the fluids inside casing

Displacement: 547.44 psi

Shoe Joint: 31.26 psi

Total 578.70 psi

Differential Pressure: 389.16 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 239.41 bbls

X *Ellis Louie Majors 4/2*
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.



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

Customer
Well Name

Anadarko Petroleum Corporation
BAREFOOT 34C-25HZ

INVOICE #
LOCATION
FOREMAN
Date

45008
Weld
JASON
7/24/2014

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DESCRIPTION OF JOB EVENTS

		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
Safety Meeting	145															
MIRU	2300															
CIRCULATE	231	0	309	0	0			0			0			0		
Drop Plug		10	311	10	10			10			10			10		
305		20	314	70	20			20			20			20		
		30	316	100	30			30			30			30		
		40	318	160	40			40			40			40		
M & P		50	320	260	50			50			50			50		
Time	Sacks	60	322	310	60			60			60			60		
0239-0305	510	70	324	370	70			70			70			70		
		80	326	440	80			80			80			80		
		90	328	470	90			90			90			90		
		100	334	440	100			100			100			100		
		110	BUMP	920	110			110			110			110		
% Excess	16%	120			120			120			120			120		
Mixed bbls	90.8	130			130			130			130			130		
Total Sacks	510	140			140			140			140			140		
bbl Returns	15	150			150			150			150			150		
Water Temp	75															

Notes:

The day

PRESSURE TESTED TO 2000 PSI @ 0227, PUMPED 30 BBL WATER WITH DYE IN 2ND 10 @ 0231, MIX AND PUMPED 510 SKS AT 14.2, 135.3 BBLs AT 0239, STARTED DISPLACEMENT AT 0309, PLUG LANDED AT 440 PSI AT 00334 AND PRESSURED UP TO 920 PSI AND HELD FOR 2 MINUTES, RELEASED PRESSURE AND GOT .5 BBL BACK

X

Work Preformed

X

Title

Ellen J. J. Major 42

X

Date

SERIES 2000

