



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/22/2015
Invoice #: 80017
API#: 05-123-39285
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Troutt 14N-33HZ

County: Weld
State: Colorado
Sec: 33
Twp: 2N
Range: 67W

Consultant: Randy/Tim
Rig Name & Number: Advanced 10
Distance To Location: 24 Miles
Units On Location: 4038-3103/4022-3213
Time Requested: 800am
Time Arrived On Location: 615am
Time Left Location: 10:15 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,156
Total Depth (ft) : 1171
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 40
Conductor ID : 16
Shoe Joint Length (ft) : 44
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: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 15
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 18.97 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 35.64 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 625.38 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 679.99 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 121.11 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 456 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 81.28 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 86.58 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 852.49 PSI

Pressure of the fluids inside casing

Displacement: 479.43 psi

Shoe Joint: 32.24 psi

Total 511.67 psi

Differential Pressure: 340.82 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 217.85 bbls

Authorization To Proceed



DISON ON Well Cementing
Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Troudtt 14N-33HZ

INVOICE #
LOCATION
FOREMAN
Date

80017
Weld
Calvin Reimers
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DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug 902am M & P Time Sacks 837am 900am % Excess Mixed bbls Total Sacks bbl Returns Water Temp	812am 620am 831am 902am M & P Time Sacks 837am 900am % 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	903am	40	0			0			0			0		
		10	906am	20	10			10			10			10		
		20	909am	20	20			20			20			20		
		30	912am	60	30			30			30			30		
		40	914am	180	40			40			40			40		
		50	916am	250	50			50			50			50		
		60	918am	310	60			60			60			60		
		70	920am	370	70			70			70			70		
		80	922am	380	80			80			80			80		
		90	926am	350	90			90			90			90		
		100	Bump	880	100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			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 829am 1000 psi, 30 bbls Ahead with Dye in 2nd 10 bbls, Cement 937am at 14.2 lbs. 1.49 Yield 456 sks 121.11 bbls Slurry, Shut Down 900am,

Drop Plug 902am, Displace 903am, Bump Plug 926am, Held for 5 min. Bleed Off and got 1/2 bbl Back Float Held, Got 15 bbls Slurry Back to Surface

X

Work Performed

X

Title

X

Date

SERIES 2000

