



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/14/2014
Invoice #: 25069
API#: 05-123-38979
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Kerr 14N-25HZ

County: Weld
State: Colorado
Sec: 13
Twp: 2N
Range: 67W

Consultant: Ellis
Rig Name & Number: Major 29
Distance To Location: 21 Miles
Units On Location: 4023-3104/4020-3212
Time Requested: 230am
Time Arrived On Location: 1215am
Time Left Location: 430am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,054
Total Depth (ft) : 1070
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 44
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: 22%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 7.0
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 19.09 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 629.08 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 648.16 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 115.44 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 435 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 77.47 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 78.70 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 777.48 PSI

Pressure of the fluids inside casing

Displacement: 435.48 psi

Shoe Joint: 32.44 psi

Total 467.91 psi

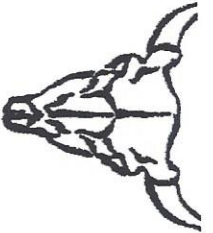
Differential Pressure: 309.57 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 206.17 bbls

X *Ellis* Major 29
Authorization To Proceed



Bison Ull Well Cementing
Single Cement Surface Pipe

Customer
Well Name

Anadarko Petroleum Corporation
Kerr 14N-25HZ

INVOICE #
LOCATION
FOREMAN
Date

25069
Weld
Calvin Reimers
10/14/2014

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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	220am														
MIRU	135am														
CIRCULATE	258am														
Drop Plug		0	325am	50			0			0			0		
		10	327am	40			10			10			10		
		20	329am	80			20			20			20		
		30	331am	120			30			30			30		
		40	333am	210			40			40			40		
		50	334am	250			50			50			50		
M & P		60	336am	300			60			60			60		
		70	338am	320			70			70			70		
305am	435						80			80			80		
321am							90			90			90		
							100			100			100		
							110			110			110		
							120			120			120		
% Excess	22%						130			130			130		
Mixed bbls	77.47						140			140			140		
Total Sacks	435						150			150			150		
bbl Returns	7														
Water Temp	55.6														

Notes:

The day

1/2 bbl back on bleed off

X *Edwin Mair 29*
Work Performed

X
Title

X
Date

SERIES 2000

