



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 7/7/2014

Invoice # 25019

API# 05-123-39333

Foreman: Calvin Reimers

Customer: ANADARKO

Well Name: Dolp H 1N-1HZ

County: Weld

State: Colorado

Sec: 1

Twp: 2N

Range: 66W

Consultant: Allen

Rig Name & Number: Major 42

Distance To Location: 17 Miles

Units On Location: 4023-3104/4027-3204

Time Requested: 830am

Time Arrived On Location: 830am

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
 Casing Weight (lb) : 36.00
 Casing Depth (ft.) : 1,404
 Total Depth (ft) : 1420
 Open Hole Diameter (in.) : 13.50
 Conductor Length (ft) :
 Conductor ID :
 Shoe Joint Length (ft) : 34
 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: 20%
 Displacement Fluid lb/gal: 8.3
 BBL to Pit:
 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 14.87 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 823.36 cuft

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

Total Slurry Volume 838.23 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 149.29 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 563 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 100.19 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 106.50 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1035.66 PSI

Pressure of the fluids inside casing

Displacement: 590.57 psi

Shoe Joint: 25.27 psi

Total 615.84 psi

Differential Pressure: 419.82 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 256.69 bbls

Authorization To Proceed



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

Customer
Well Name

ANADARKO
Dolp H 1N-1HZ

INVOICE #
LOCATION
FOREMAN
Date

25019
Weld
Calvin Reimers
7/7/2014

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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	922am															
MIRU	845am															
CIRCULATE	949am	0	1051am	40	0			0			0			0		
Drop Plug		10	1053am	20	10			10			10			10		
1050am		20	1056am	10	20			20			20			20		
		30	1059am	30	30			30			30			30		
		40	1101am	110	40			40			40			40		
M & P		50	1102am	170	50			50			50			50		
Time	Sacks	60	1104am	250	60			60			60			60		
954am	563	70	1106am	300	70			70			70			70		
1046am		80	1108am	380	80			80			80			80		
		90	1110am	415	90			90			90			90		
		100	1112am	415	100			100			100			100		
		110	1113am	420	110			110			110			110		
% Excess	20%	120	Bump	790	120			120			120			120		
Mixed bbls	100.19	130			130			130			130			130		
Total Sacks	563	140			140			140			140			140		
bbl Returns	23	150			150			150			150			150		
Water Temp	71.4															

Notes:

The day

1/2 bbl Back on Bleed off

X Allen Scott M-42

X _____
Title

X _____
Date

Work Performed

M/D TOTCO 2000 SERIES

