

# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/3/2014

Invoice # 65010

API# 05-123-40168

Foreman: Lee Sharp

Customer: Anadarko Petroleum Corporation

Well Name: Summit 3N-29hz

County: Weld

State: Colorado

Sec: 28

Twp: 2N

Range: 65w

Consultant: Alan

Rig Name & Number: Major 42

Distance To Location: 18

Units On Location: *40% 4015 & 4022 4021*

Time Requested: *2:00 7:00 3:00*

Time Arrived On Location: 5:30

Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
 Casing Weight (lb) : 36.00  
 Casing Depth (ft.) : 1,095  
 Total Depth (ft) : 1106  
 Open Hole Diameter (in.) : 13.50  
 Conductor Length (ft) : 0  
 Conductor ID : 0  
 Shoe Joint Length (ft) : 43  
 Landing Joint (ft) : 2

Max Rate:

Max Pressure:

## Cement Data

Cement Name: BFN III  
 Cement Density (lb/gal) : 14.2  
 Cement Yield (cuft) : 1.49  
 Gallons Per Sack: 7.49  
 % Excess: 15%  
 Displacement Fluid lb/gal: 8.3  
 BBL to Pit:  
 Fluid Ahead (bbls): 30.0  
 H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

10+10D+10=30

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe 18.56 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 615.70 cuft**

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

**Total Slurry Volume 634.26 cuft**

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

**bbls of Slurry 112.96 bbls**

(Total Slurry Volume) X (.1781)

**Sacks Needed 426 sk**

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

**Mix Water 75.91 bbls**

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

**Displacement: 81.54 bbls**

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

## Pressure of cement in annulus

**Hydrostatic Pressure: 808.14 PSI**

## Pressure of the fluids inside casing

**Displacement: #N/A psi**

**Shoe Joint: 31.54 psi**

**Total #N/A psi**

**Differential Pressure: #N/A psi**

**Collapse PSI: 2020.00 psi**

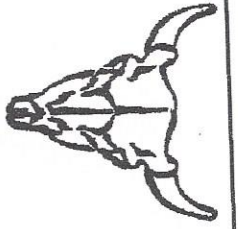
**Burst PSI: 3520.00 psi**

**Total Water Needed: 207.45 bbls**

*[Signature]*

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  
 Summit 3N-29hz

INVOICE #  
 LOCATION  
 FOREMAN  
 Date

65010  
 Weld  
 Lee Sharp  
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**DESCRIPTION OF JOB EVENTS**

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
Safety Meeting	8:00														
MIRU	7:40														
CIRCULATE	8:47	0	9:17	0	9:17	0	9:17	0	9:17	0	9:17	0	9:17	0	9:17
Drop Plug		10	9:19	10	9:19	10	9:19	10	9:19	10	9:19	10	9:19	10	9:19
		20	9:22	20	9:22	20	9:22	20	9:22	20	9:22	20	9:22	20	9:22
		30	9:25	30	9:25	30	9:25	30	9:25	30	9:25	30	9:25	30	9:25
		40	9:27	40	9:27	40	9:27	40	9:27	40	9:27	40	9:27	40	9:27
		50	9:30	50	9:30	50	9:30	50	9:30	50	9:30	50	9:30	50	9:30
M & P		60	9:31	60	9:31	60	9:31	60	9:31	60	9:31	60	9:31	60	9:31
		70	9:33	70	9:33	70	9:33	70	9:33	70	9:33	70	9:33	70	9:33
8:54-9:11	426	80	9:36	80	9:36	80	9:36	80	9:36	80	9:36	80	9:36	80	9:36
		90	9:39	90	9:39	90	9:39	90	9:39	90	9:39	90	9:39	90	9:39
		100		100		100		100		100		100		100	
		110		110		110		110		110		110		110	
		120		120		120		120		120		120		120	
% Excess	15%	130		130		130		130		130		130		130	
Mixed bbls	76	140		140		140		140		140		140		140	
Total Sacks	426	150		150		150		150		150		150		150	
bbl Returns	22														
Water Temp	55														

Notes:

Job went well. Plug landed on calculated 81.6, mixed and pumped 112.90 bbl of slurry 426 sack 1.49 yell; 14.2 lb/gal; 7.48, plug down @9:39 checked floats @ 9:43 1400psi 2nd bump @ 9:44 1000psi

Work Performed

X Mr Lee Title \_\_\_\_\_

X \_\_\_\_\_ Date \_\_\_\_\_

# M/D TOTCO 2000 SERIES

