



# BISON

Bison Oil Well Cementing Inc.  
1547 Gaylord Street  
Denver, CO 80206  
303-296-3010

## Invoice

Date	Invoice #
7/14/2014	55001

Bill To
Noble Energy Inc. Attn: Accounting 1625 Broadway Ste 2000 Denver, CO 80202

Location	Well Name & No.	Terms	Job Type		
Weld CO	Eagle E14-63-IHN	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1			
Discount 15%	Discount 15%				
MILEAGE	Mileage charge	360			
Discount 15%	Discount 15%				
Data Acquisition ...	Data Acquisition Charge	1			
Discount 15%	Discount 15%				
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	360	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	4	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	16	oz		
Discount 15%	Discount 15%				
Sugar	Sugar	50	lb		
	Subtotal of Materials				

Please Remit Payment To:

Bison Oil Well Cementing, Inc.  
P.O. Box 29671  
Thornton, CO 80229

Subtotal

Sales Tax

Total

Balance



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 7/14/2014  
Invoice #: 55001  
API#:   
Foreman: monte

Customer: Noble Energy Inc.

Well Name: EAGLE E14-63-1HN

County: Weld  
State: Colorado  
Sec: 23  
Twp: 6N  
Range: 65W

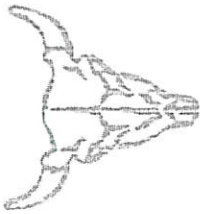
Consultant: TYLOR  
Rig Name & Number: PD 829  
Distance To Location: 25.1  
Units On Location: 4022 3102 4007 0110  
Time Requested: 4:30AM  
Time Arrived On Location: 7:00AM  
Time Left Location: 7:00

WHIT DATA	Current Log
	BFN III
9.625	
36.00	15.2
626	1.27
	5.89
13.75	30%
80	8.3
15.6	
41	40.0
19	20.0
5	
2000	

			Displacement:	46.69	bbls
cuft of Shoe	17.80	cuft			
cuft of Conductor	65.76	cuft	Hydrostatic Pressure:	494.29	PSI
cuft of Casing	373.27	cuft	Displacement:	252.24	psi
			Shoe Joint:	32.37	psi
Total Slurry Volume	456.83	cuft	Total	284.61	psi
bbls of Slurry	81.36	bbls	Differential Pressure:	209.68	psi
Sacks Needed	360	sk	Collapse PSI:	2020.00	psi
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)			Burst PSI:	3520.00	psi
Mix Water	50.44	bbls			
(Sacks Needed) X (Gallons Per Sack) ÷ 42			Total Water Needed:	157.14	bbls

x *Roger Tork*  
Authorized 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

Noble Energy Inc.  
EAGLE E14-63-1HN

INVOICE #  
LOCATION  
FOREMAN  
Date

55001  
Weld  
monte  
7/14/2014

Treatment Report Page 2

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	4:40															
MIRU	3:30															
CIRCULATE	5:02	0		0	0			0			0			0		
Drop Plug		10		40	10			10			10			10		
		20			20			20			20			20		
		30			30			30			30			30		
		40			40			40			40			40		
		50			50			50			50			50		
M & P		60			60			60			60			60		
Time		70			70			70			70			70		
1:10 5:30		80			80			80			80			80		
		90			90			90			90			90		
		100			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:

Safety Meeting, miru, pressure test per company manm circulate 40 bbls ahead with dye in 2nd 10, mix and pump 360 sks cement at 30% excess, drop plug and displ  
ating in head blew out at 30 bbls displace, pump 12 bbls over to bump plug, unhook head and rig pumper 7.5 bbls to bump plug, bumped at 6:18 am, at 572 psi, 16

*Royce Ford*  
SALES REPRESENTATIVE

X *WSS*

X *7/14/14*  
Date