



# BISON

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

## Invoice

Date	Invoice #
6/27/2013	11970

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	WR USX AA23-6/HN	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%				
HOURS	Wait Time	1			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	364	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	10	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 (2.9%)	
Total	
Balance Due	

# BISON OIL WELL CEMENTING, INC.

1547 Gaylord Street  
Denver, Colorado 80206  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: bisonoil1@qwestoffice.net



INVOICE #  
LOCATION  
FOREMAN

11970  
67-68  
Kirk

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
6-27-13	20th PL USX AM 23-67H2	24	6A'	63W	Weld
BILL TO		CONSULTANT			
Noble		Johnny S			
OWNER		RIG NAME & NUMBER			
		H2P 343			
MAILING ADDRESS		DISTANCE TO LOCATION		UNITS ON LOCATION	
				3106	
CITY		TIME REQUESTED		TIME ARRIVED ON LOCATION	
		9:30am		9:00am	
STATE, ZIP		TIME LEFT LOCATION			
		2:30 pm			

## WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
673		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
667		
CASING WEIGHT	PACKER DEPTH	
3612		
CASING CONDITION	Good	
Max Rate		
Max Pressure		

## Cement Makeup

Cement Blend	BFNTII 3% BICA-1, 25 lbs/sq ft BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
1.073	1.073		

## TYPE OF TREATMENT

<input checked="" type="checkbox"/> Surface Pipe	<input type="checkbox"/> Production	<input type="checkbox"/> Squeeze
<input type="checkbox"/> MISC Pump	<input type="checkbox"/> P&A	

HYD HHP = RATE X PRESSURE / 40.8

% Excess  
BBL to Pit

16%
11 BBLs

## DESCRIPTION OF JOB EVENTS

Safety meeting, Rig up, PSI test, Perforation circ 50 BBLs H2O 2nd 10 w/ dye, misc Pump 409 SCS cement at 30% excess at 1127 yield at 1512 lbs or until stopped By cement Release Plug Disp 48 BBLs H2O Pump Plug at 150 PSI over 2.5 ft PSI next 5 min Release PSI, washup Rig Down

X

Authorization To Proceed

Title

WSS

X 6-27-13  
Date

Customers hereby acknowledge and specifically agree to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity