



BISON

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

Invoice

Date	Invoice #
4/21/2013	11874

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Summer PCLE 23-64HN	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	1.5			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	386	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	16	oz		
Discount 15%	Discount 15%				
	Subtotal of Materials				

Please Remit Payment To:

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

Subtotal	58,360.31
Sales Tax (2.9%)	1,692.45
Total	60,052.76
Balance Due	60,052.76

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

11874
93 + Wile 18
Mike R

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
4-21-13	Kummer PL-1E 23-6411	23	3N	61W	Weld
BILL TO	CONSULTANT				
Noble	Lance				
OWNER	RIG NAME & NUMBER				
Noble	HHP 374				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	33		4007 4023 1111		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	400		3:15		
STATE, ZIP	TIME LEFT LOCATION				
	9:30 PM				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
766		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
743		
CASING WEIGHT	PACKER DEPTH	
36 #		
CASING CONDITION		
Good		
Max Rate		
4.0		
Max Pressure		
490		

Cement Makeup

Cement Blend	BENITE 3% BCLP-1 25% BCLP-1		
Cement - Specs	lbs	Yield	Water Requirements
	152	1.27	5.89
Annulus Factor	Capacity Factor		
4343.1528	.874 .0713		
<p>TYPE OF TREATMENT</p> <p><input checked="" type="checkbox"/> Surface Pipe <input type="checkbox"/> Production <input type="checkbox"/> Squeeze</p> <p><input type="checkbox"/> MISC Pump <input type="checkbox"/> P&A</p>			
HYD HHP = RATE X PRESSURE / 40.8			
% Excess	10		
BBL to Pit	8		

DESCRIPTION OF JOB EVENTS

Safety met, Rig up, JSIA-PSI Test, SPACER 50 BBL 2" 10 W4C
Mix Pump 456 SKS Cement 30% Excess at 152 1.27 yield or out 1 Compaction
Stops vs Drop Plug Displace BBLs How Do not go over 1/2 BBL Displace 55.3
Bump Plug 150 to 200 PSI over 1-1/2 WAT Couple min Release PSI

Authorization To Proceed

WSS
Title

X 4-21-13
Date