



BISON

Invoice

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

Date	Invoice #
3/30/2013	11863

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	SLW Ranch State B-12-67- JHN	Net 30	Surface Pump		
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	0.5			
Service Charge	Casing PSI Test	1			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	407	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%				
	Subtotal of Materials				

Please Remit Payment To:

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

Subtotal	29,184.01
Sales Tax (2.9%)	838.28
Total	29,992.27
Balance Due	29,992.27

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

11863
 55-388
 Mike Rasch

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
3-30-13	SLW Ranch State B-12 67-1 HML	12	5N	64W	Weld
BILL TO	OWNER	CONSULTANT			
Noble	Noble	BRAIN			
MAILING ADDRESS		RIG NAME & NUMBER			
		HHP 315			
CITY		DISTANCE TO LOCATION	UNITS ON LOCATION		
		30 miles	4/		
STATE, ZIP		TIME REQUESTED	TIME ARRIVED ON LOCATION		
		2:30	1:25 PM		
		TIME LEFT LOCATION			
		7:00 PM			

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
678		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
673.84		
CASING WEIGHT	PACKER DEPTH	
36 #		
CASING CONDITION	Good	
Max Rate	6.0	
Max Pressure	500	

Cement Blend			BFW 3% BCCA-1, 25% BEUA-1		
Cement - Specs			lbs	Yield	Water Requirements
			15.2	1.27	5.89
Annulus Factor			Capacity Factor		
.7842, .5255, .4343			10773		

TYPE OF TREATMENT

Surface Pipe Production Squeeze

MISC Pump P&A

HYD HHP = RATE X PRESSURE / 40.8

% Excess 29%

BBL to Pit 20

DESCRIPTION OF JOB EVENTS

Initial, Rig up, ISM, PSE TEST 1000, SPACER. new mix + Pump 410 gals at 3090 Excess
 at 15.2 lbs 1.27 yield or until Pump runs stops via Drop Plug, Displace 48.7 BBLs Pump Plug
 50 + 200 over 1st wait couple min PSE casing up to 1000, PSE hold 15 min Release PSE wash
 & Rig Down Flow Collar held

[Signature]
 Authorization to Proceed

Noble Comp Rep
 Title

X 3-30-13
 Date

Customer hereby acknowledges and specifically agrees 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.