



BISON

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

Invoice

Date	Invoice #
5/4/2013	11792

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Sauer F33-77-IHC	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1			1,400.00
Discount 15%	Discount 15%				-210.00
MILEAGE	Milage charge-Pickup	180			270.00
Discount 15%	Discount 15%				-40.50
Data Acquisition ...	Data Acquisition Charge	1			275.00
Discount 15%	Discount 15%				-41.25
	Subtotal of Services				1,883.25
BFN III Winter ...	BFN III Blend	333	Sack		6,327.00
Discount 15%	Discount 15%				-949.05
KCL Mud Flush	(BHS 117)	3	qt		27.00
Discount 15%	Discount 15%				-4.05
Dye - 4880	Dye (Hot Pink 4880)	16	oz		240.00
Discount 15%	Discount 15%				-36.00
Sugar	Sugar	100	lb		200.00
	Subtotal of Materials				6,777.90

Please Remit Payment To:

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

Subtotal	8,714.15
Sales Tax (2.9%)	252.71
Total	8,966.86
Balance Due	8,966.86

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 #

11792

LOCATION

FOREMAN

Brod Kosinski

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
May 5 2013	Sprer F33-77-1MC				
BILL TO	CONSULTANT				
Noble Energy					
OWNER	RIG NAME & NUMBER				
	Ensign				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCTION		
			4022/3104/4024/102		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
			3:00		
STATE, ZIP	TIME LEFT LOCATION				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
620		
CASING WEIGHT	PACKER DEPTH	
CASING CONDITION	Good	
Max Rate	5 bbls	
Max Pressure	10,000	

Cement Makeup

Cement Blend	BFN 74 3% BCCA-1.2516/sk BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
0.5258	0.786 0.773		
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

30
14

BBL to Pit

DESCRIPTION OF JOB EVENTS

MTRU, Safety meeting. Pischke to 500. Circ 344 bbls of H₂O with KCL + Pink Dye in 2nd 10 bbls. M+P 30% excess at 333-7443. Excess Dump plug Dis 44 bbls. Dumped plug 500 psi over preps held, pressured back up 1000 psi held for 15 min, released psi. Cleaned up rig down.

X

Authorization To Proceed

Title

X May 5 2013
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.