



# BISON

Bison Oil Well Cementing Inc.  
 Suite 102  
 Denver, CO 80202  
 303-296-3010

## Invoice

Date	Invoice #
12/22/2012	11170

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	Castor Federal LG17-62HN	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1		1,400.00	1,400.00
Discount 15%	Discount 15%			-15.00%	-210.00
MILEAGE	Equipment Mileage charge	60		1.50	90.00
Discount 15%	Discount 15%			-15.00%	-13.50
MILEAGE	Equipment Mileage charge	60		1.50	90.00
Discount 15%	Discount 15%			-15.00%	-13.50
MILEAGE	Pick-Up Truck Mileage charge	60		1.50	90.00
Discount 15%	Discount 15%			-15.00%	-13.50
Service Charge	Iron Inspection	1		300.00	300.00
Discount 15%	Discount 15%			-15.00%	-45.00
	Subtotal of Services				1,841.50
Type III Cellusea...	Type III with Celluseal and Kol-Seal	401	Sack	18.50	7,418.50
Discount 15%	Discount 15%			-15.00%	-1,112.78
Dye - 4880	Dye (Hot Pink 4880)	16	lb	15.00	240.00
Discount 15%	Discount 15%			-15.00%	-36.00
	Subtotal of Materials				6,509.72
					8,354.22

Please Remit Payment To:

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

Subtotal	\$8,354.22
Sales Tax (2.9%)	\$242.27
Total	\$8,596.49
Balance Due	\$8,596.49

# BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102  
Denver, Colorado 80202  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11170  
LOCATION Grover  
FOREMAN Randel Newton

## TREATMENT REPORT

DATE <u>12-22-12</u>	WELL NAME <u>Caster Federal LG 175-42 HNS 17</u>	SECTION <u>SN</u>	TWP <u>59W</u>	RGE <u>Weld</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble Energy</u>			OWNER <u>Noble</u>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <u>H.P. 392</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>20 mi</u>			
TIME ARRIVED ON LOCATION <u>12:00 PM</u>			TIME LEFT LOCATION <u>6:30 PM</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4"</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>990'</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>7 5/8"</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>881' 12" plus 842.50</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>36 lb</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION <u>good</u>		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
		<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
		<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
		<input type="checkbox"/> MISC PUMP			
		<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB SM, move in. Run up pressure test lines to 1000 PSI @ 10 bbls  
H2O 10 bbls Dye H2O 45 bbls H2O 140 bbls cement w/ 3% CCA Vg# per SK  
cellulose @ 15.2 lb/gal vial @ 1.28 cc/bbl. Water req. of 5.8 gal/sk until Dye is  
seen then mix cement slurry by company man. Start down deep plug Displace w/ 651  
bbls H2O land plug 400 psi over kill release then pressure casing to 1000 psi hold 15 min. Rig down

DESCRIPTION OF JOB EVENTS	gm	MTRH	PT	air	mix	Drop plug
	3:05 AM	3:15 AM	3:45 AM	4:05 AM	4:20 AM	4:50 AM
Displace						
4:55 AM	land plug		Pressure test casing	5:40 AM		
	5:15 AM		5:20 AM			
4:58 lb 100 PSI			held 1000 PSI			Rig down
5:03 20 200 PSI			ROT 15 min			5:30 AM
5:07 30 300 PSI						
5:11 40 200 PSI						
5:15 50 200 PSI						
5:16 60 320 PSI						
5:18 15.1 700 PSI						

11 bbls cement 40 pit

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers 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.