



BISON

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

Invoice

Date	Invoice #
12/23/2012	11175

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	WR-PCUSXAA16-69-IHNL	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1			
Discount 15%	Discount 15%				
MILEAGE	Equipment Mileage charge	60			
Discount 15%	Discount 15%				
MILEAGE	Equipment Mileage charge	60			
Discount 15%	Discount 15%				
MILEAGE	Crew Pick-Up Mileage charge	60			
Discount 15%	Discount 15%				
Service Charge	Iron Inspection	1			
Discount 15%	Discount 15%				
Subtotal of Services					
Type III Cellusea...	Type III with Celluseal and Kol-Seal	329	Sack		
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	
Sales Tax (2.9%)	
Total	
Balance Due	

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 # 11175
LOCATION Wells Ranch
FOREMAN Randel Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
	<u>Wells Ranch PC USX AR 1619-1416</u>	<u>14</u>	<u>6N</u>	<u>63W</u>	<u>Weld</u>	

CHARGE TO <u>Noble Energy</u>	OWNER <u>Noble</u>
MAILING ADDRESS	OPERATOR <u>HP 343</u>
CITY	CONTRACTOR <u>HP 343</u>
STATE ZIP CODE	DISTANCE TO LOCATION <u>6.0 mi</u>
TIME ARRIVED ON LOCATION <u>1:45 am</u>	TIME LEFT LOCATION <u>10:00 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4"</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>677'</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>641'</u>	PHY <u>622'</u>	TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>36#</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SOEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		

PRESSURE SUMMARY			TREATMENT RATE		
BREAKDOWN or CIRCULATING psi	AVERAGE psi		BREAKDOWN BPM		
FINAL DISPLACEMENT psi	ISIP psi		INITIAL BPM		
ANNULUS psi	5 MIN SIP psi		FINAL BPM		
MAXIMUM psi	15 MIN SIP psi		MINIMUM BPM		
MINIMUM psi			MAXIMUM BPM		
			AVERAGE BPM		
			HYD HHP = RATE X PRESSURE X 40.8		

INSTRUCTIONS PRIOR TO JOB MIRN 5m PT 40/1000 PSI. Release pressure circ 10 bbls Dye
40 bbls Fresh mhp cement Type III n/w 130 cc 1 1/2" SK cell sag @ 15.2 bbls
fluid @ 1.28 cu ft/sk water @ 5.8 gal/sk shut down deep plug Displace 50 bbls
fresh water land plug pressure test casing to 1000 PSI Release pressure
Rig down

JOB SUMMARY						
DESCRIPTION OF JOB EVENTS	MIRN	5m	PT	circ	mhp	Deep plug
	<u>1:45 AM</u>	<u>3:00 AM</u>	<u>8:05 AM</u>	<u>8:15 AM</u>	<u>8:25 AM</u>	<u>9:02 AM</u>
		<u>7:30 AM</u>			<u>9:00 AM</u>	
<u>Displace</u>	<u>Land plug</u>	<u>Rig down</u>				
<u>9:03 AM</u>	<u>9:14 AM</u>	<u>9:30 AM</u>				
<u>9:06 10 30</u>	<u>4154 PSI</u>					
<u>9:10 20 140</u>						
<u>9:13 30 230</u>						
<u>9:16 40 280</u>						
<u>9:19 50 390</u>						
		<u>mix 45 bbl mix water for 329 sls</u>				
		<u>20% excess</u>				
		<u>8 bbls cement to pipe</u>				

Nancy Stepten
AUTHORIZATION TO PROCEED

TITLE

12-23-12

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.