



# BISON

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

## Invoice

Date	Invoice #
1/29/2013	11691

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	Furrow Federal PC AB14-63	Net 30	Surface		
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	Job Time	2.75			
Type III Cement	Type III Cement	494	lb		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
Discount 15%	Discount 15%				

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 # 11691

LOCATION 55980

FOREMAN Kirk  
Dario Serry

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-29-13	<u>Furrow Federal PC AB 14-6344</u>	14	7N.	64W	well.	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Encing 121</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1:00 pm</u>		TIME LEFT LOCATION <u>9:45 pm</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
13 3/4				
TOTAL DEPTH <u>1192</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
<u>PBTD</u> <u>1106</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>9 5/8</u>	TUBING CONDITION	TREATMENT VIA	TUBING	
CASING DEPTH <u>1149</u>				
CASING WEIGHT <u>36 lbs</u>	PACKER DEPTH			
CASING CONDITION <u>Good</u>				

  

TYPE OF TREATMENT		TREATMENT RATE	
<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
<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			

  

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING	psi	AVERAGE
FINAL DISPLACEMENT	psi	ISIP
ANNULUS	psi	5 MIN SIP
MAXIMUM	psi	15 MIN SIP
MINIMUM	psi	

INSTRUCTIONS PRIOR TO JOB Safety Meeting Rig up, PST Test per CO. then circ. 50 bbls KCL H2O 2nd 10 w/ Dye.  
Mix pump lead cement at 20% excess at 15.1 lbs at 1.69 yield. 394 shs. Mix pump tail cement 100 shs  
at 15.2 lbs at 1.27 yield release plug. Displ. 854 BBLs H2O. Bump plug at 150 PST over lift PST  
wait 5 min release PST wash up rig down. H2O test ok  
Arrived w/ 600 shs cement 4 gal KCL 16 oz Dye. 118.5 BBLs slurry lead 22.6 tail.

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 7:00pm Circ. 7:30pm Cement 7:47pm Stop cement 8:14pm

Drop plug 8:17pm Displ. 8:17pm  
10 BBLs at 6 BBLs/m 8:20pm 320psi  
20 BBLs at 6 BBLs/m 8:21pm 320psi  
30 BBLs at 6 BBLs/m 8:23pm 330psi  
40 BBLs at 6 BBLs/m 8:24pm 340psi  
50 BBLs at 6 BBLs/m 8:28pm 450psi  
60 BBLs at 6 BBLs/m 8:30pm 500psi  
70 BBLs at 3.5 BBLs/m 8:32pm 370psi  
80 BBLs at 3.5 BBLs/m 8:34pm 400psi  
854 BBLs at 1 BBL/m 8:38pm 370psi  
Bump Plug 8:38pm 540psi LFT w/ 16 shs cement 2 gal 3.5% KCL 6 oz Dye BBLs sack 4/3

used 394 shs cement lead  
used 20% excess lead  
118.5 BBLs slurry lead  
used 100 shs cement tail  
22.6 BBLs slurry tail

Michael Magrath  
AUTHORIZATION TO PROCEED

TITLE

1-29-13

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