



# BISON

## Invoice

Bison Oil Well Cementing Inc.  
 1738 Wynkoop St.  
 Suite 102  
 Denver, CO 80202  
 303-296-3010

Date	Invoice #
6/21/2011	10133

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

Location	Well Name & No.	Job Type	Terms	Rig	
Weld, CO	Phillips 24-3-21	Surface	Net 30		
Item	Description	Qty	U/M	Rate	Amount
Pump surface Discount 15%	PUMP Charge-surface pipe Discount 15%	1			
MILEAGE Discount 15%	Mileage charge Discount 15%	360			
Data Acquisitio... Discount 15%	Data Acquisition Charge Discount 15%	1			
	Subtotal of Services				
BFN III Summe... Discount 15%	BFN III Blend Discount 15%	214	Sack		
KCL Mud Flush Discount 15%	(BHS 117) Discount 15%	3	qt		
Dye - 4880 Discount 15%	Dye (Hot Pink 4880) Discount 15%	10	oz		
	Subtotal of Materials				

Please Remit Invoices To:

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

<b>Subtotal</b>	
<b>Sales Tax (2.9%)</b>	
<b>Total</b>	
<b>Balance Due</b>	

# 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 # 10133  
 LOCATION Z57 & WCR54  
 FOREMAN Grant Lowe

## TREATMENT REPORT

DATE <b>6-21-11</b>	WELL NAME <b>Phillips 24-3-21</b>	SECTION <b>Z4</b>	TWP <b>5N</b>	RGE <b>67W</b>	COUNTY <b>Weld</b>	FORMATION
CHARGE TO <b>Noble</b>			OWNER			
MAILING ADDRESS			OPERATOR <b>Noble</b>			
CITY			CONTRACTOR <b>Ensign #136</b>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <b>10:20pm</b>			TIME LEFT LOCATION <b>2:00AM</b>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
<b>12 1/4</b>					
<b>581</b>			SURFACE PIPE ANNULUS LONG		
<b>PBTD 527.22</b>			STRING		
<b>8 5/8</b>			TUBING		

PRESSURE SUMMARY		TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> SOOZE CEMENT	FINAL BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
MINIMUM	psi			<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 **Rig up, Safety meeting per Co man, 30 Circulate 30 bbls H<sub>2</sub>O/KCL with dye x's 10oz 2<sup>nd</sup> 10 bbls, Mix and pump Cement @ 15.2 density @ 1.27 yield until dye is seen, pump tub only, not to exceed 30% excess without consulting Co man, Drop plug, displace 33.5 bbls bump plug @ 150 psi over lift press Wait 5 min, Wash up Rig down, H<sub>2</sub>O tested good, Arrived on location with 700 sks, 32oz dye, 10 gts KCL**

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS **Safety meeting @ 12:20AM, Circulate @ 12:46AM, Cement @ 12:51AM to 1:02AM, Drop plug @ 1:04AM, Displace @ 1:06AM**  
**10 bbls @ 300 psi @ 1:06AM @ 7.0 bbls/min**  
**20 bbls @ 400 psi @ 1:08AM @ 7.0 bbls/min**  
**30 bbls @ 280 psi @ 1:10AM @ 3.0 bbls/min**  
**33.5 bbls @ 280 psi @ 1:12AM @ 1.0 bbls/min**  
**Bump plug @ 1:12AM @ 520 lbs, Float collar hold**  
**13% Excess**  
**214 sacks**  
**48.4 bbls slurry**  
**11 bbls/pit**  
**left location with 486 sks, 22oz dye, 7gts KCL**

[Signature]  
 AUTHORIZATION TO PROCEED

W.S.S.  
 TITLE

6-21-11  
 DATE