



# BISON

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

## Invoice

Date	Invoice #
1/28/2013	11672

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	Thistle Down State PC-36-65#N	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	Wait Time	6			
Service Charge	PSI Testing	1			
Type III Cement	Type III Cement	395			
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	4	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	16	oz		
Discount 15%	Discount 15%				

Please Remit Payment To:

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

Subtotal	\$10,343.27
Sales Tax (2.9%)	\$299.75
<b>Total</b>	<b>\$10,643.02</b>
Balance Due	\$10,643.02

# 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 # 11622  
LOCATION WCR 50+49  
FOREMAN MIKE ROSALES

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-28-13	Thistle Down State PL-1-36-6N	32	5	65W	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	PRECISION Drilling, 828
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	6:00 PM	TIME LEFT LOCATION	5:30 AM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH	634	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD 583.26		TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 9 5/8		TUBING CONDITION		TUBING	
CASING DEPTH 607.51		TREATMENT VIA			

PRESSURE SUMMARY		TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[ ] SURFACE PIPE	BREAKDOWN BPM
FINAL DISPLACEMENT	psi	ISIP	psi	[ ] PRODUCTION CASING	INITIAL BPM
ANNULUS	psi	5 MIN SIP	psi	[ ] SOOZE CEMENT	FINAL BPM
MAXIMUM	psi	15 MIN SIP	psi	[ ] ACID BREAKDOWN	MINIMUM BPM
MINIMUM	psi			[ ] ACID STIMULATION	MAXIMUM BPM
				[ ] ACID SPOTTING	AVERAGE BPM
				[ ] MISC PUMP	
				[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Saffymulch Rig up Pressure TEST 500. Spacer head 40 BLS, KCL mix 2nd 10 Dye mix + Pump (376 sks Cement Type 100 390) or until Compagnon stops us, at 15:2 127 gals. DROP 1/2, Displace 45 BBLs then Pump Plug 150 UGR 1st WAIT 10 min Release PSE, Wash up Rig Down  
ARRIVE WITH 600 SKS 1602 Dye 1594 KCL 200 BLS Sign

JOB SUMMARY		DESCRIPTION OF JOB EVENTS	
START Cement	3:20 AM	1:10 AM	3:10 AM 3:20 AM 3:50 AM 3:50 AM 3:58 AM 10 360
STOP Cement	3:48 AM		4:01 AM 20 390
Slurry	89.3		4:03 AM 30 500
			4:05 AM 40 260
			4:09 AM 45 300
			4:09 AM Pump Plug 530
			Flow collar held
Used 36 % Excess			
Used 395 sks Cement	Slurry 89.3		
BBL Cement 10 P.T	(19) 89.3		

LTH with 205 sks Cement 11 gals KCL @ Dye 105 Sign

Dr. Miller

WCS

128-13

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