



# BISON

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

## Invoice

Date	Invoice #
12/24/2012	11639

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Brandon PC 023-65HN	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			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	300	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	4	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	10	oz		
Discount 15%	Discount 15%				
	Subtotal of Materials				

Please Remit Payment To:

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

Subtot

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 # 11639

LOCATION 44-21

FOREMAN Kirk Kallhoff  
Pablo, Jerry

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-24-12	Branden PL 023-65H	23	4N	67W	Weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR PD 829			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 9:00am			TIME LEFT LOCATION 8:30pm			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 590	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 540	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 582		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3615	PACKER DEPTH		[ ] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SOOZE CEMENT		FINAL BPM
			[ ] ACID BREAKDOWN		MINIMUM BPM
			[ ] ACID STIMULATION		MAXIMUM BPM
			[ ] ACID SPOTTING		AVERAGE BPM
			[ ] MISC PUMP		
			[ ] OTHER		HYD IHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Safety meeting, Rig up, Psi test, Permenen circ 40 bbls KCL H2O 2nd 100/ Dye mix  
Pump 315 SKS cement ad 30% Excess ad 1.27 yield at 15.2 lbs, cement till cement stops up, Release Plug Disp  
41.7 BBLs H2O, Pump Plug ad 150 psi over Lift Psi, wait 5 min Release Psi, wash up Rig Down  
H2O test OK  
72.1 BBLs slurry

Arrived w/ 790 SKS cement 4 gal KCL 16oz Dye

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 5:30pm circ 7:11pm cement 7:20pm Supplement 7:36pm  
Drop Plug 7:41pm Displace 7:41pm

10 BBLs AT 6 BBLs/min 7:44pm 240psi  
20 BBLs AT 6 BBLs/min 7:45pm 310psi  
30 BBLs AT 6 BBLs/min 7:47pm 360psi  
40 BBLs AT 1 BBL/min 7:50pm 220psi  
41.7 BBLs AT 7:51pm 220psi  
Bump Plug 7:51pm 40psi  
Used 8% Excess  
Used 300 SKS cement  
67.8 BBLs slurry

L-Flow 450 SKS cement 3 gal KCL 6oz Dye BBLs Back 12

In Town

WSS

12-24-12

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