



# BISON

Bison Oil Well Cementing Inc.  
1547 Gaylord Street  
Denver, CO 80206  
303-296-3010

## Invoice

Date	Invoice #
7/19/2013	12381

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Wells Ranch USXAA27-62-1H	Net 30	Surface Pipe		
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	1			
Service Charge	Cassing Test	1			
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	357	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

Subtotal	
Sales Tax	
Total	
Balance Due	

# BISON OIL WELL CEMENTING, INC.

1547 Gaylord Street  
Denver, Colorado 80206  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: bisonoil1@qwestoffice.net



INVOICE #  
LOCATION  
FOREMAN

12381  
68+69  
KIK

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
7-19-13	Wells Ranch U.S. AA 27-62-1HN	27	6N	63W	
BILL TO	CONSULTANT				
Noble	Charles				
OWNER	RIG NAME & NUMBER				
	H+P 322				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
			3103-3203		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	1200 PM		1100 AM		
STATE, ZIP	TIME LEFT LOCATION				
	500 PM				

### WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
640		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
636		
CASING WEIGHT	PACKER DEPTH	
36		
CASING CONDITION	Good	
Max Rate		
Max Pressure		

### Cement Makeup

Cement Blend	BFN III 3% <del>AB</del> BCC-1.25lb BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
.0529	.0773		
<p>TYPE OF TREATMENT</p> <p><input checked="" type="checkbox"/> Surface Pipe <input type="checkbox"/> Production <input type="checkbox"/> Squeeze</p> <p><input type="checkbox"/> MISC Pump <input type="checkbox"/> P&amp;A</p>			
HYD HHP = RATE X PRESSURE / 40.8			
% Excess	15		
BBL to Pit	16		

### DESCRIPTION OF JOB EVENTS

seftx meeting MFRV Pressure test Per company man Run 40 bbls Ahead with  
Dye In 2nd 10 mix # Pump 403 sks cement Drop plug + Displace  
45.6 bbls H2O Bump plug at 150 lbs above 1.4+ Pressure Release  
Pressure wash up Rig down

X Charles Oak  
Authorization To Proceed

WSS  
Title

X 7-19-13  
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.

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1238/  
68469  
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Treatment Report Page 2

## DESCRIPTION OF JOB EVENTS

Safety Meeting	MIRU	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5			Displace 5		
		BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
CIRCULATE	300	0	343	20	0			0			0			0			0		
Drop Plug	345	10	345	100	10			10			10			10			10		
		20	347	180	20			20			20			20			20		
		30	349	240	30			30			30			30			30		
		40	352	240	40			40			40			40			40		
		45	354	420	50			50			50			50			50		
M & P		60			60			60			60			60			60		
Time	Sacks	70			70			70			70			70			70		
323	357	80			80			80			80			80			80		
340	stop cement	90			90			90			90			90			90		
		100			100			100			100			100			100		
		110			110			110			110			110			110		
		120			120			120			120			120			120		
		130			130			130			130			130			130		
		140			140			140			140			140			140		
		150			150			150			150			150			150		

Notes:

used 357 sacks cement 80.7 bbls slurry 16 bbls to P.T

bump plug at 354 pm at 420 PSI P.I test casing 1000 PSI for 15 min

X Charles P. Blue

X VOS

X 7-19-13

Work Performed

Title

Date