



# BISON

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

## Invoice

Date	Invoice #
9/15/2013	12682

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Rhon State LD04-62 1-HN	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	480			
Discount 15%	Discount 15%				
Data Acquisition ...	Data Acquisition Charge	1			
Discount 15%	Discount 15%				
HOURS	Wait Time	6.5			
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	493	Sack		
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%				
	Subtotal of Materials				

Please Remit Payment To:

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

Subtotal

Sales Tax

Total

Balance

# 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

12682  
127+110  
Calvin Reiners

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
9-15-13	Robn State 10-M-66-1-H	4	9N	58W	Weld
BILL TO	CONSULTANT				
Noble	DAVE N				
OWNER	RIG NAME & NUMBER				
Noble	H&P Rig 273				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	80 miles		3106/3205		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	11:30 am		11:00 am		
STATE, ZIP	TIME LEFT LOCATION				
	10:00 pm				

### WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
1250		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
1247.21		
CASING WEIGHT	PACKER DEPTH	
36 lb.		
CASING CONDITION	Good	
Max Rate	7	
Max Pressure	2500	

### Cement Makeup

Cement Blend	BENTON 3% BCCA-1.25 lb/sk BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	13.1/15.2	1.67/1.27	8.14/5.89
Annulus Factor	Capacity Factor		
.5259	.0773		

### TYPE OF TREATMENT

<input checked="" type="checkbox"/> Surface Pipe	<input type="checkbox"/> Production	<input type="checkbox"/> Squeeze
<input type="checkbox"/> MISC Pump	<input type="checkbox"/> P&A	

HYD HHP = RATE X PRESSURE / 40.8

% Excess	20/0
BBL to Pit	30

### DESCRIPTION OF JOB EVENTS

MIRU, Safety meeting, Psi Test to 500 Psi, Circ 40 bbls H<sub>2</sub>O with KEL + ~~100 bbls~~ 100 bbls, Mix + pump  
Lead at 20% Excess = 393 sks, 118.31 bbls slurry at 13.1 lbs. 1.67 yield, Mix + pump Tail 0% Excess  
= 100 sks, 22.62 bbls slurry at 15.2 lbs. 1.27 yield to Couga 2.07' + shoe, Drop plug, Displace  
933 bbls H<sub>2</sub>O, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi,  
Washup, Rig down

X [Signature]  
Authorization To Proceed

Ca Man  
Title

X 9-15-13  
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.