



BISON

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

Invoice

Date	Invoice #
9/17/2013	12683

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 LD09-68HN	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%				
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	523	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
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

12683
127+110
CALVIN RAIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
9-17-13	Robin State LD 07-08-11A	9	9N	58W	Weld
BILL TO	CONSULTANT				
Noble	Shane / Jeff				
OWNER	RIG NAME & NUMBER				
Noble	H&P Rig 326				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	80 miles		3106/3203		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	6:00 pm		6:00 pm		
STATE, ZIP	TIME LEFT LOCATION				
	12:45 am				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
1254		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
1247.77		
CASING WEIGHT	PACKER DEPTH	
3616		
CASING CONDITION	Good	
Max Rate	7	
Max Pressure	2500	

Cement Makeup

Cement Blend	BFN III 3% BCCA-1.25 lb/sk BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	13.1/15.2	1.69/1.27	8.64/5.89
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
BBL to Pit

30 / 10

DESCRIPTION OF JOB EVENTS

MRO, Safety Meeting, Psi test to 500 Psi, CIR 50 bbls H₂O with HCL, Mix pump Lead at 30% Excess = 423 SKS, 127.32 bbls Slurry at 13 lb. 1.69 yield at Tail at 0% Excess to Cover 206' + shoe = 100 SKS, 22.62 bbls Slurry at 15.2 lb. 1.27 yield, Drop plug, Displace 93.1 bbls H₂O, Bump plug at 150 B over Lift Psi, Wait 5 min. Then bleed off Psi, Washup, Rig down,

X
Authorized to Proceed

Title

X
Date

Customer 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