



BISON

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

Invoice

Date	Invoice #
8/10/2013	12410

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Robin State LD04-6411H	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	496	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	4	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 (2.9%)

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

12410
127+110
Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY						
8-10-13	Robn State LDO-46411N	4	9N	58W	Weld						
BILL TO	CONSULTANT										
Noble	Mike P.										
OWNER	RIG NAME & NUMBER										
Noble	H&P Rig 273										
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION								
	80 miles		3106/3204								
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION								
	12:00am		11:25pm								
STATE, ZIP	TIME LEFT LOCATION										
	3:00am										
WELL DATA			Cement Makeup								
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend								
13 3/4			BFN III 3% BCCA-1.25166K BFLA-1								
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Cement - Specs								
1224			<table border="1"> <tr> <td>lbs</td> <td>Yield</td> <td>Water Requirements</td> </tr> <tr> <td>13.1/15.2</td> <td>1.69/1.27</td> <td>8.64/5.89</td> </tr> </table>			lbs	Yield	Water Requirements	13.1/15.2	1.69/1.27	8.64/5.89
lbs	Yield	Water Requirements									
13.1/15.2	1.69/1.27	8.64/5.89									
CASING SIZE	TUBING WEIGHT	OPEN HOLE	Annulus Factor								
95/8			.0773								
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	Capacity Factor								
1217.03			1.5259								
CASING WEIGHT	PACKER DEPTH	TYPE OF TREATMENT									
3616		<input checked="" type="checkbox"/> Surface Pipe <input type="checkbox"/> Production <input type="checkbox"/> Squeeze <input type="checkbox"/> MISC Pump <input type="checkbox"/> P&A									
CASING CONDITION	HYD HHP = RATE X PRESSURE / 40.8										
Good											
Max Rate	% Excess										
7	20/0										
Max Pressure	BBL to Pit										
2500	25										

DESCRIPTION OF JOB EVENTS

M:RU, Safety Meeting Psi Test to 500 Psi, Circ 40 bbls H₂O with KCL, Mix pump lead at 20% Excess = 396 sks, 119.19 bbls slurry at 13.1 lbs. 1.69 yield Tail at 0% Excess = 100 sks, 22.61 bbls slurry to cover 200' shoe at 15.2 lbs. 1.27 yield, Drop plug, Displace 90.6 bbls H₂O, Bump plug at 150 Psi over lift Psi, Wait 5 min then bleed off Psi, wash up, Rig down,

X Authorization To Proceed

USS Title

X 8-10-13 Date