



BISON

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

Invoice

Date	Invoice #
2/27/2013	11719

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	ThistleDown State PCF36-6	Net 30	Surface Pump		
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	3			
BFN III Winter ...	BFN III Blend	427	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	16	oz		
Discount 15%	Discount 15%				

Please Remit Payment To:

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

Subtotal

Sales Tax (2.9%)

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

11719
WCR 49152
Calvin Reimer

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
2-27-13	Thistle Down State PC F36 09 H44	25	5N	65W	Weld
BILL TO	CONSULTANT				
Noble	TAWN B.				
OWNER	RIG NAME & NUMBER				
Noble	PD Rig 828				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	11 miles		3106/3211/120		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	4:15 am		3:45 am.		
STATE, ZIP	TIME LEFT LOCATION				
	11:15 am.				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
13 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
684		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
655.98		
CASING WEIGHT	PACKER DEPTH	
36		
Casing Depth with Landing Joint 676.63		
CASING CONDITION	Good	
Max Rate	7	
Max Pressure	2500	

Cement Makeup

Cement Blend	BFA III 3% BCCA-1 .2516/sk BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	127	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	40
BBL to Pit	19

DESCRIPTION OF JOB EVENTS

M.R.U., Safety Meeting, Psi check to 500 Psi, Circ 50 bbls H₂O with KCL + Dye x 16 in 2" 10 bbls. Mix pump tell good Dye is seen at 15.2 lbs 127 yield. Drop plug, Displace 49 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

Title

WSS

X 2-27-13
Date

Customers hereby acknowledge and specifically agree 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.