



BISON

Invoice

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

Date	Invoice #
5/16/2013	11922

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Sauer F33-77-111X	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%				
Service Charge	Wait Time	2.5			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	430	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	\$9,129.50
Sales Tax (12.0%)	\$1,095.54
Total	\$10,225.04
Balance	\$10,225.04

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

11922
 WKR50+41
 Calvin Beimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
5-16-13	SAGER F 33-77-1HMX	33	5N	65W	Weld
BILL TO	CONSULTANT				
Noble	Mike M.				
OWNER	RIG NAME & NUMBER				
Noble	Ensign Rig 121				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	7 miles		3106/3205		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	9:00 AM		8:30 am.		
STATE, ZIP	TIME LEFT LOCATION				
	3:30 pm.				

WELL DATA			Cement Makeup			
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend	B F N J L 3% BCCA-1 .25166K BFLA-1		
13 3/4			Cement - Specs	lbs	Yield	Water Requirements
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT		15.2	1.27	5.89
602			Annulus Factor	Capacity Factor		
CASING SIZE	TUBING WEIGHT	OPEN HOLE	.5259	.0773		
9 5/8			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			
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	HYD HHP = RATE X PRESSURE / 40.8			
596.53			% Excess 59 BBL to Pit 12			
CASING WEIGHT	PACKER DEPTH					
3616						
CASING CONDITION	Good					
Max Rate	7					
Max Pressure	2500					

DESCRIPTION OF JOB EVENTS

MIRA, Safety meeting, Psi Test to 500 Psi, Circ 40 bbls H₂O with KCL+Pink Dye x 16 in 2nd 10 bbls, Mix + pump Tell good dye is seen at 15.2 lbs 1.27 yield, Drop plug, Displace 43 bbls H₂O, Bump plug at 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down,

X Michael Meyer
 Authorization To Proceed

Title

X 5-16-13
 Date