



BISON

Bison Oil Well Cementing Inc.
 Suite 102
 Denver, CO 80202
 303-296-3010

Invoice

Date	Invoice #
12/30/2012	11643

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Shelton PCG24-75HN	Net 30	Surface		
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%				
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	357	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	5	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	10	oz		
Discount 15%	Discount 15%				
Sugar	Sugar	300	lb		
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 Due	

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11643

LOCATION 49-42

FOREMAN Kirk Kallhaas
Palo, Maria, Jerry

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-30-12	Shelton PL 6-74-75 H.N.	25	4N	6SW	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR HEP 321
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 3:15pm	TIME LEFT LOCATION 1:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 678	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 632	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 674		TREATMENT VIA			

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP			
			<input type="checkbox"/> OTHER			
					HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB: Self-priming, Rig up, PSI test, Performan, Circ 50 BBLs KIL H2O, 2nd 100/psi, mix & Pump 4/46
SKs cement at 30% Excess at 127 yield at 1512 lbs or until stopped By roman, Release Plug Disp 48.8
BBLs H2O, Pump Plug At 150psi over Lift PSI, wait 5min Release PSI, wash up, Rig Down.

Arrived w/ 600 SKs cement 45all KIL 1602 Dye

100.8 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Self-priming 7:15am circ 11:35am cement 11:46am stop cement 12:05pm
Drop Plug 12:08pm Displace 12:08pm

10 BBLs At 5 BBLs/m 12:10pm 350psi

used 357 SKs cement

20 BBLs At 5 BBLs/m 12:12pm 400psi

used 4% Excess

30 BBLs At 5 BBLs/m 12:14pm 460psi

80.7 BBLs slurry

40 BBLs At 3.5 BBLs/m 12:16pm 340psi

48.8 BBLs At 1 BBL/m 12:20pm 270psi

Pump Plug 12:20pm 470psi

L5thw/ 243 SKs cement 25all 3gds KIL 602 Dye

BBLs Back 16


AUTHORIZATION TO PROCEED

WSS

TITLE

12-30-12

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.