



BISON

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

Invoice

Date	Invoice #
2/10/2013	11697

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

Location	Well Name & No.	Terms	Job Type		
Weld, CO	Thistle Down State PCF36-62 H/V	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%				
Type III Cement	Type III Cement	358			
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%				

Please Remit Payment To:

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

Subtotal	
Sales Tax (2.85%)	
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 # 11697

LOCATION 49-50

FOREMAN Kirk Kallhoff
Mike Jerry

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-10-13	Thistle Down State PLF 36-67 H2	36	5N	6SW	Weld	
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR PD 828				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 4:30pm		TIME LEFT LOCATION 9:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 639	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 583	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 629		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION sand			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Safety meeting, Pig up, Picked, Per person circ 50 BBls Kel H2, 2nd 10w Dye, mix & Pump
388SKs cement at 30% Excess at 127yrld at 15.2 lbs or until stopped By cement, Release Pkg Disp
45.1 BBls H2O, Pump Pkg At 150 Psi out Lift Psi, wait 5 min Release Psi, wash up Pig Down.
Acetest ok

Arrived w/ 600SKs cement 4gall Kel 16oz Dye 87.7 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 6:02pm circ 6:43pm cement 6:52pm stop cement 7:27pm
Disp Pkg 7:31pm Displace 7:31pm
10 BBls At 5 BBls/m 7:35pm 210psi
20 BBls At 5 BBls/m 7:37pm 240psi
30 BBls At 5 BBls/m 7:40pm 300psi
40 BBls At 3.5 BBls/m 7:42pm 270psi
45.1 BBls At 1 BBls/m 7:45pm 230psi
Bump Pkg 7:45pm 660psi
used 20% Excess
used 35 BBls cement
80.9 BBls slurry

L Pkg / 242SKs cement 2gall 3gts Kel 6oz Dye BBls Deck 9

[Signature]
AUTHORIZATION TO PROCEED

WSS
TITLE

2-10-13

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