



BISON

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

Invoice

Date	Invoice #
7/28/2013	12389

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	Wells Ranch USXAA27-63-1H	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1			1,400.00
Discount 15%	Discount 15%				-210.00
MILEAGE	Mileage charge	360		1.25	450.00
Discount 15%	Discount 15%				-67.50
Data Acquisition ...	Data Acquisition Charge	1		212.00	212.00
Discount 15%	Discount 15%				-31.80
Service Charge	Casing Test	1		200.00	200.00
	Subtotal of Services				2,142.00
BFN III Summer ...	BFN III Blend	370	Sack	15.19	5,620.30
Discount 15%	Discount 15%				-843.05
KCL Mud Flush	(BHS 117)	4	qt	7.50	30.00
Discount 15%	Discount 15%				-4.50
Dye - 4880	Dye (Hot Pink 4880)	10	oz	13.00	130.00
Discount 15%	Discount 15%				-19.50
	Subtotal of Materials				6,317.25

Please Remit Payment To:

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

Subtotal	8,559.25
Sales Tax (2.29%)	193.94
Total	8,753.19
Balance Due	8,753.19

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

12387
 68-69
 Kirk

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
7-28-13	Wells Ranch USK AA 27-63-11W	02	5N	64W	weld
BILL TO	CONSULTANT				
Noble	Shane				
OWNER	RIG NAME & NUMBER				
	H+P 322				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
			3103-3210		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	1100P		10:25P		
STATE, ZIP	TIME LEFT LOCATION				
	330A				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
12 3/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
635		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
625		
CASING WEIGHT	PACKER DEPTH	
36 lb		
CASING CONDITION	6 good	
Max Rate		
Max Pressure		

Cement Makeup

Cement Blend	BFN III 3% BCC-1 .2516 BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
.5258	.0773		

TYPE OF TREATMENT

Surface Pipe Production Squeeze
 MISC Pump P&A

HYD HHP = RATE X PRESSURE / 40.8

% Excess 30
 BBL to Pit 12

DESCRIPTION OF JOB EVENTS

safety meeting Rig up Pressure test Per company man 40 bbl ahead with dye
 In 2nd 10 kcal mix + Pump 370 sls cement at 15.2 lb 1.27 yield at 30 lb excess
 drop plug + ~~plug~~ at 150 lbs above Displace 44.6 bbls H2O Bump Plug
 at 150 lbs above lift Press Hold 5 min Release ~~plug~~ wash up Rig down

X Authorization To Proceed

 Title

X 7-28-13
 Date

Customer 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.

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INVOICE #
 LOCATION
 FOREMAN

12389
 68469
 KIRK

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

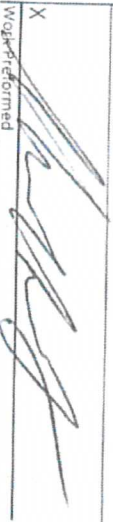
Safety Meeting	Displace 1		Displace 2		Displace 3		Displace 4		Displace 5	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI	Time	PSI
MIRU	12:00 AM									
CIRCULATE	1:30 AM	0	2:08	10						
Drop Plug		10	2:10	20						
		20	2:12	30						
		30	2:14	40						
		40	2:16	50						
M & P		50	2:19	60						
		60	4:30	70						
Time	Sacks									
1:38 AM	370									
2:05 AM	stop cement									
		80		80				80		80
		90		90				90		90
		100		100				100		100
		110		110				110		110
		120		120				120		120
		130		130				130		130
		140		140				140		140
		150		150				150		150

Notes:

MIX + PUMP 370 Sks Cement 1572 1.27 yield at 30% excess Displace 45.6 bbls H₂O

Bump Plug at 2:19 AM at 430 lbs Hold 5 min Release Pressure

Pressure test casing at 1000 lb Hold for 15 min Release Pressure

X 

X Title

X 7-28-13 Date