



BISON

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

Invoice

Date	Invoice #
10/6/2013	12482

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 AE20-64-1HN	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%				
HOURS	Wait Time	1.5			
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	470	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	7	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	
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

12482
Well Ranch
Randy Lynch

TREATMENT REPORT

DATE 10-4-13	WELL NAME	SECTION 20	TWP 6N	RGE 62W	COUNTY Weld
BILL TO Nobl	CONSULTANT Seth				
OWNER nobl	RIG NAME & NUMBER HTP 343				
MAILING ADDRESS	DISTANCE TO LOCATION 33		UNITS ON LOCATION 3102 / 3204		
CITY	TIME REQUESTED 8:30 PM		TIME ARRIVED ON LOCATION 6:30 PM		
STATE, ZIP	TIME LEFT LOCATION 2:00 AM				

WELL DATA

HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	Cement Blend BFN III 3% DECA-1.2516/SA BFA-1
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Cement - Specs lbs 15.2 Yield 1.27 Water Requirements 5.89
CASING SIZE 9 5/8	TUBING WEIGHT	OPEN HOLE	Annulus Factor .5257 Capacity Factor .0773
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	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 WEIGHT 36 #	PACKER DEPTH		
CASING CONDITION Good			HYD HHP = RATE X PRESSURE / 40.8
Max Rate 7			% Excess 10
Max Pressure 1000			BBL to Pit 12

DESCRIPTION OF JOB EVENTS

MIRU, Safety meeting Held, psi test to 500 cfm 70 bbls H2O with Kel + Pink Dye in 2nd 10 bbls H2O, mix + pump tell good dye is seen @ 15.2 1.27 yield. Drop plug Displace 70 bbls H2O, Bump plug @ 150 over 1st psi hold for 5 min. Bleed off

X

Authorization To Proceed

Title

X 104-13

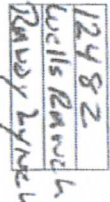
Date

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.

INVOICE #	12482
LOCATION	Wells Ranch
FOREMAN	Randy Lyman

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Treatment Report Page 2



Safety Meeting	10:35	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	9:50	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI
CIRCULATE	11:19	0	12:34	0	0			0			0			0		
Drop Plug		10	12:36	40	10			10			10			10		
		20	12:38	60	20			20			20			20		
		30	12:40	140	30			30			30			30		
		40	12:42	215	40			40			40			40		
		50	12:44	280	50			50			50			50		
M & P		60	12:46	340	60			60			60			60		
Time		70	12:49	400	70			70			70			70		
Sacks		80			80			80			80			80		
Start 11:36		End 12:32	470	Bump Plug	90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Float Held used 10% Excess 470 sks, 106, 3 bbls Slurry

1 bbl/min = 290 PST

X 

Work Performed _____

X _____

Title _____

X _____

Date _____

M/D TOTCO 2000 SERIES

