



BISON

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

Invoice

Date	Invoice #
8/27/2013	12452

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 USXAA27-65-1H	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	Casing Test	1			
	Subtotal of Services				
BFN III Summer ...	BFN III Blend	319	Sack		
Discount 15%	Discount 15%				
KCL Mud Flush	(BHS 117)	4	qt		
Discount 15%	Discount 15%				
Dye - 4880	Dye (Hot Pink 4880)	10	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

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



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FOREMAN

12452
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Kirk

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
8-27-13	Wells Ranch USA 27-65-14W	27	6N	63W	Weld
BILL TO	CONSULTANT				
note	Shaw / Jensen				
OWNER	RIG NAME & NUMBER				
	HIP 322				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
			3103-3203		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	4:30pm		3:40pm		
STATE, ZIP	TIME LEFT LOCATION				
	7:30pm				
WELL DATA			Cement Makeup		
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend	BFA 3% BCL A 1.25 lbs per SK BFLA-1	
13 3/4			Cement - Specs	lbs	Yield
				15.2	1.27
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Annulus Factor	Capacity Factor	
616			5.58	6.773	
CASING SIZE	TUBING WEIGHT	OPEN HOLE	TYPE OF TREATMENT		
9 5/8			<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		
606					
CASING WEIGHT	PACKER DEPTH		% Excess		
3613			2040		
CASING CONDITION			BBL to Pit		
Good			14 BBLs		
Max Rate					
Max Pressure					

DESCRIPTION OF JOB EVENTS

Setup mixing Rig up, PSI test, Per company, circ 40 BBLs KELLH2O 2nd 10 w/ Dye, mix & Pump 361
SKS cement at 30% Excess at 1.27 yield at 15.2 lbs, cement till stopped By cement Release Plug
Disp 43.5 BBLs H2O, Pump Plug At 150 PSI over 1.5 PSI, wait 5 min Release PSI, wash up
Rig Down

X Authorization To Proceed

Title

X 8-27-13 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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12452
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Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	5:123	Displace 1	Displace 2	Displace 3	Displace 4	Displace 5	Displace 5
MIRU	4:52	BLS Time PSI	BLS Time PSI	BLS Time PSI	BLS Time PSI	BLS Time PSI	BLS Time PSI
CIRCULATE	5:48	0 6:15 10	0	0	0	0	0
Drop Plug		10 6:18 80	10	10	10	10	10
		20 6:26 160	20	20	20	20	20
		30 6:21 220	30	30	30	30	30
		40 6:23 220	40	40	40	40	40
M & P	4:350	6:26 200	50	50	50	50	50
Time	Sacks	60	60	60	60	60	60
5:5647	319	70	70	70	70	70	70
6:12 800		80	80	80	80	80	80
		90	90	90	90	90	90
		100	100	100	100	100	100
		110	110	110	110	110	110
		120	120	120	120	120	120
		130	130	130	130	130	130
		140	140	140	140	140	140
		150	150	150	150	150	150

Notes:

Used 2096 & cross 349 sets cement 721 BLS slurry 141 BLS de-pit
Damped Plug at 6:12 800 PSI first casing 1000 PSI 15min

X

[Signature]

X

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X

8-27-12