

Bison Oil Well Cementing Inc.

1738 Wynkoop St.
Suite 102
Denver, CO 80202
303-296-3010

Invoice

Date	Invoice #
10/4/2010	9290

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

Location	Well Name & No.	Terms	Rig
Weld, CO	DF Ranch 1161-08-42	Net 30	

Item	Description	Qty	U/M	Rate	Amount
PUMP	Pump charge	1			
MILEAGE	Mileage charge	3			
Data Acquisitio...	Data Acquisition Charge	1			
HOURS	Wait Time	2			
	Subtotal of Services				
BFN III	BFN III Blend	411	Sack		
KCL Mud Flush	(BHS 117)	4	qt		
	Subtotal of Materials				
Discount - service	Discount - service	1			

Please Remit Invoices To:

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

Subtotal	
Sales Tax (2.9%)	
Total	
Balance Due	\$8,945.96

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 # 9290

LOCATION WCR 122+89

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE <u>10-3-10</u>	WELL NAME <u>DF Ranch 1161-08-42</u>	SECTION <u>8</u>	TWP <u>11N</u>	RGE <u>61W</u>	COUNTY <u>Weld</u>	FORMATION
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CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>9:30 am.</u>	TIME LEFT LOCATION <u>6:00 am.</u>

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1273</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
<u>PBTD 1227.84</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING	
CASING DEPTH <u>1269.89</u>		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT <u>24 lbs.</u>	PACKER DEPTH		TREATMENT RATE	
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
			<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

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi		
FINAL DISPLACEMENT psi	ISIP psi		
ANNULUS psi	5 MIN SIP psi		
MAXIMUM psi	15 MIN SIP psi		
MINIMUM psi			

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Cick 40 bbls H₂O with KCL, Lead Mix + pump 27% Excess = 311 Sacks cement, AT 13.1 lbs. 1.69 yield to cover 1002', Tail Mix + pump 0% Excess = 100 Sacks cement at 15.2 lbs. 1.27 yield, 22.6 bbls Slurry to cover 271' + shoe, Drop plug, Displace 78.2 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Washup, Rig down, H₂O tested good, We have 700 Sacks cement, 3202 Dye, 21 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:20 am, Cick 3:30 am, Cement 3:45 am, Drop plug 4:44 am, Displace 4:46 am

10 bbls 270 Psi	4:49 am	7.0 bbls/m
20 bbls 300 Psi	4:51 am	7.0 bbls/m
30 bbls 320 Psi	4:52 am	7.0 bbls/m
40 bbls 380 Psi	4:54 am	7.0 bbls/m
50 bbls 450 Psi	4:55 am	7.0 bbls/m
60 bbls 530 Psi	4:57 am	7.0 bbls/m
70 bbls 500 Psi	4:58 am	6.0 bbls/m
782 bbls 36 Psi	5:02 am	1.8 bbls/m

Bump Plug 440 Psi AT 5:02 am

USED ~~27~~ 27% Excess = 311 Sacks, 93.6 bbls Slurry, Tail 0% Excess = 100 Sacks, 22.6 bbls Slurry

Left with 289 Sacks cement, 3202 Dye, 17 Qts KCL

5 bbls Slurry to the Pit

I am [Signature] Rig Supervisor 10-4-10

AUTHORIZATION TO PROCEED TITLE 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.