

# 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



## SERVICE INVOICE

Nº 9298

WELL NO. AND FARM <b>Dejong usr AB 13-06</b>		COUNTY <b>weld</b>	STATE <b>CO</b>	DATE <b>9-16-10</b>
CHARGE TO <b>Noble</b>		WELL LOCATION SEC. <b>13</b> TWP. <b>7N</b> RANGE <b>64W</b>		CONTRACTOR <b>Code 21</b>
		DELIVERED TO <b>Cr 59-80</b>		LOCATION <b>1 Shop</b>
		SHIPPED VIA <b>3102/3204</b>		LOCATION <b>2 Cr 59-80</b>
		TYPE AND PURPOSE OF JOB <b>Sur Face Pipe</b>		LOCATION <b>3 Shop</b>
				WELL TYPE <b>Gas</b>
				CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump charge	1	each		
	BFL III 3/4 BCCA-1, 25% BFL A-1	286	SKS		
	BCLy-1	5	QTS		
	Dye	10	oz		
	mileage \$1.50 per mile 60 mile min Round trip	3	each		
	Dish Acc	1	each		

DRILLING	
RIG NO.	<b>Code 21</b>
WELL NAME & NO.	<b>DE JONG</b>
PROJECT NO.	<b>130656</b>
TASK (DRILL, COMP, WIG, PUMP)	<b>Cement Sucs.</b>
ACTG. CODE	<b>1.1.17</b>
DOLLAR TOTAL BEING APPLIED	<b>7500.50</b>
1ST LEVEL APPROVAL	<b>Edel 9/16/10</b>
2ND LEVEL APPROVAL	<b>DATE</b>
MAIL TO: NOBLE ENERGY INC. 1625 BROADWAY SUITE 2200 DENVER, CO 80202	
NO INVOICE PAID	Weight
ATTACHED SINGLE FIELD TICKETS	Loaded Miles

If this account is not paid within 30 days of invoice date a FINANCE CHARGE will be made. Computed at a single monthly rate of 1 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

### TAX REFERENCES

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

SUB TOTAL

**2,971** TAX

TOTAL

**6530.15**

SUBJECT TO CORRECTION

Customer or His Agent

Bison Oil Well Cementing, Inc. Representative

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.



**Well Name: DEJONG USX AB13-06P**
**Surface Casing Cement**

API 05-123-32086	Quarter Quarter SEW	Regulatory Field WATTENBERG	County/Parish WELD	State/Province COLORADO	Well Configuration Type VERTICAL
Ground Elevation (ft) 4,820.00	Casing Flange Elevation (ft) 4,820.00	KB - GL / MSL (ftKB) 13	KB-Casing Flange Distance (ft) 13.00	Spud Date 9/15/2010 11:30:00 PM	Rig Release Date 9/19/2010 8:00:00 PM

**Cement Details**

Description Surface Casing Cement	Cementing Start Date 9/16/2010 13:30	Cementing End Date 9/16/2010 14:15	Wellbore Name ORIGINAL HOLE
--------------------------------------	---	---------------------------------------	--------------------------------

**Technical Result**
**Success**
**Comment**

SAFETY MEETING WITH BISON & RIG CREW, RIG UP, PUMP 50 BBLs FLUSH WITH RED DYE IN 2ND 10 BBL TUB, CEMENT CASING WITH 268 SX 15.2 # CEMENT, 5% EXCESS, DISPLACE WITH 49.1 BBLs WATER, FULL RETURNS DURING DISPLACEMENT, RETURNED 9 BBLs CEMENT TO SURFACE, BUMP PLUG, FLOAT HELD, RIG DOWN

**Cement Stages**
**Stage # 1**

Description		Objective		Top (ftKB)		Bottom (ftKB)		Full Return?		Cmnt Rtrn (bbl)		Top Plug?		Bottom Plug?	
Surface Casing Cement				13.0		818.0		Yes		9.0		Yes		No	
Q (start) (bbl/min)		Q (end) (bbl/min)		Q (avg) (bbl/min)		P (final) (psi)		P (bump) (psi)		Recip?		Stroke (ft)		Rotated?	
6		2		4		35.0		460.0		No				No	
Depth tagged (ftKB)				Tag Method				Depth Plug Drilled Out To (ftKB)				Drill Out Diameter (in)			

**Comment**

CIRCULATE TO SURFACE

**Cement Fluids & Additives**
**Fluid**

Fluid Type Preflush	Fluid Description WATER	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Amount (sacks)	Class	Volume Pumped (bbl) 50.0
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.40	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

**Additives**

Additive KCL	Type	Concentration 2.0	Conc Unit label %
-----------------	------	----------------------	----------------------

**Fluid**

Fluid Type Tail	Fluid Description CEMENT	Estimated Top (ftKB) 13.0	Estimated Bottom (ftKB) 828.0	Amount (sacks) 286	Class TYPE III	Volume Pumped (bbl) 63.9
Yield (ft³/sack) 1.27	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 15.20	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

**Additives**

Additive BFLA 1	Type	Concentration 0.25	Conc Unit label #/sk
Additive Type III Cement	Type	Concentration	Conc Unit label
Additive CaCl2	Type Accelerator	Concentration 3.0	Conc Unit label %

**Fluid**

Fluid Type Displacement	Fluid Description WATER	Estimated Top (ftKB)	Estimated Bottom (ftKB) 828.0	Amount (sacks)	Class	Volume Pumped (bbl) 50.0
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.40	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

**Additives**

Additive	Type	Concentration	Conc Unit label
----------	------	---------------	-----------------