



BISON

Bison Oil Well Cementing Inc.
Greenwood Village, CO 80111

Invoice

Date	Invoice #
1/5/2018	200217

Bill To
Bill Barrett Corp. 1099 18th Street, Suite 2300 Denver, CO 80202

Location	Well Name & No.	Terms	Job Type		
Weld CO	UPRR 5-1	Net 30	4 1/2 Casing Cement		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1		2,300.00	2,300.00
MILEAGE	Mileage charge-Pickup	64		1.50	96.00
Discount 15%	Discount 15%			-15.00%	-14.40
MILEAGE	Mileage charge-Truck	128		4.00	512.00
Discount 15%	Discount 15%			-15.00%	-76.80
Data Acquisition ...	Data Acquisition Charge	1		225.00	225.00
Discount 15%	Discount 15%			-15.00%	-33.75
	Subtotal of Services				3,008.05
BFN III Blend T...	BFN III Blend	293	Sack	20.19	5,915.67
Discount 15%	Discount 15%			-15.00%	-887.35
Rubber Plug 4 1/2"	Rubber plug 4 1/2"	1		50.00	50.00
	Subtotal of Materials				5,078.32
					8,086.37

Please Remit Payment To:

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

Subtotal	\$8,086.37
Sales Tax (2.9%)	\$0.00
Total	\$8,086.37
Balance Due	\$8,086.37



Bison Oil Well Cementing
6143 S Willow Drive, Suite 400
Greenwood Village, CO 80111

FIELD INVOICE #

200217

FIELD INVOICE

WELL NO. AND FARM		COUNTY	STATE	DATE	Contractor
uprr 5-1		Weld	Colorado	1/5/2018	ensign 312
CHARGE TO		WELL LOCATION			
Bill Barrett Corp.		Section	TWP	RANGE	
1099 18th Street, Suite 2300		3	5n	62w	
Denver, CO 80202		DELIVERED TO		LOCATION 1	CODE
		34-68		shop	
		SHIPPED VIA		LOCATION 2	CODE
				2 34-68	
		TYPE AND PURPOSE OF JOB		LOCATION 3	CODE
		4 1/2" Casing Cement		shop	
				WELL TYPE	CODE
				gas	
ITEM	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
PUMP CHARGE					
	SURFACE	1		\$ 2,300.00	\$ 2,300.00
MILLEAGE CHARGE					
	Pickup	64		\$ 4.00	\$ 256.00
	Truck/Equipment	64		\$ 4.00	\$ 256.00
	Truck/Equipment	64		\$ 4.00	\$ 256.00
CEMENT CHARGE:					
	BFN III	293		\$ 21.00	\$ 6,153.00
ADDITIVES CHARGE:					
	4 1/2 rubber plug	1	ea	\$ 50.00	\$ 50.00
FLOAT EQUIPMENT:					
OTHER CHARGES:					
	DATA ACQUISITION FEE	1		\$ 225.00	\$ 225.00

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%.

SUB TOTAL \$ 9,496.00
TAX \$
TOTAL \$ 9,496.00

SUBJECT TO CORRECTION

Customer or 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 hereof which include the release and indemnity.



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/5/2018
Invoice #: 200217
API#:
Foreman: Kirk Kallhoff

Customer: Bill Barrett Corp.
Well Name: uprr 5-1

County: Weld
State: Colorado
Sec: 3
Twp: 5n
Range: 62w

Consultant: chris
Rig Name & Number: ensign 312
Distance To Location: 32
Units On Location: 2
Time Requested: 1200 pm
Time Arrived On Location: 1130 am
Time Left Location: 3:00pm

WELL DATA

Casing Size OD (in) : 4.5
Casing Weight (lb) : 11.60
Casing Depth (ft.) : 440
Total Depth (ft) : 440
Open Hole Diameter (in.) : 8.63
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) :
Landing Joint (ft) : 0

Max Rate: 8
Max Pressure: 2500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.8
Cement Yield (cuft) : 1.32
Gallons Per Sack: 6.30
% Excess: 30%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 20.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup
h2o dye in 1st 10

Casing ID

4

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 0.00 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 0.00 cuft
(Conductor Width Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft)
cuft of Casing 168.90 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 168.90 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 30.08 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 128 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 19.19 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 6.84 bbls

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 338.27 PSI

Pressure of the fluids inside casing

Displacement: 189.72 psi

Shoe Joint: 0.00 psi

Total 189.72 psi

Differential Pressure: 148.55 psi

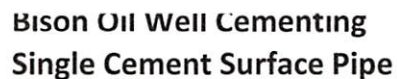
Collapse PSI: #N/A psi

Burst PSI: #N/A psi

Total Water Needed: 56.03 bbls

X

Authorization To Proceed



Customer
Well Name

Bill Barrett Corp.

uprr 5-1

200217

Weld

Kirk Kallhoff

1/5/2018

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

X		X		X	1-5-18
Work Performed	<i>d m C. Gumbel</i>	Title		Date	



Bison Oil Well Cementing Single Cement Surface Pipe

Cementing Customer Satisfaction Survey

Service Date	1/5/2018
Well Name	uprr 5-1
County	Weld
State	Colorado
SEC	3
TWP	5n
RNG	62w

Invoice Number	200217
API #	0
Job Type	Single Cement Surface Pipe
Company Name	Bill Barrett Corp.

Customer Representative **chris**

Supervisor Name **Kirk Kallhoff**

Employee Name (Including Supervisor)	Exposure Hours (Per Employee)
kirk	3.5
frank	3.5
himi	3.5
rick	3.5
dave	3.5
Total Exposure Hours	17.5

Did we encounter any problems on this job?

☐ Yes

☒ No

To Be Completed By Customer

Rating/Description

- 5 - Superior Performance (Established new quality/performance standards)
 - 4 - Exceeded Expectation (Provided more than what was required/expected)
 - 3 - Met Expectations (Did what was expected)
 - 2 - Below Expectations (Job problems/failures occurred - *Recovery made)
 - 1 - Poor Performance (Job problems/failures occurred - *Some recovery made)
- *Recovery: resolved issue(s) on jobsite in a timely and professional manner

RATING	CATEGORY
<input type="checkbox"/>	Personnel -
<input type="checkbox"/>	Equipment -
<input type="checkbox"/>	Job Design -
<input type="checkbox"/>	Product/Material -
<input type="checkbox"/>	Health & Safety -
<input type="checkbox"/>	Environmental -
<input type="checkbox"/>	Timeliness -
<input type="checkbox"/>	Condition/Appearance -
<input type="checkbox"/>	Communication -

CUSTOMER SATISFACTION RATING

- Did our personnel perform to your satisfaction?
- Did our equipment perform to your satisfaction?
- Did we perform the job to the agreed upon design?
- Did our products and materials perform as you expected?
- Did we perform in a safe and careful manner (Pre/post mtgs, PPE, TSMR, etc..)?
- Did we perform in an environmentally sound manner (spills, leaks, cleanup, etc..)?
- Was job performed as scheduled (On time to site, accessible to customers, completed when expected)?
- Did the equipment condition and appearance meet your expectations?
- How well did our personnel communicate during mobilization, rig up and job execution?

Please Circle:

- Yes ☒ No Did an accident or injury occur?
- Yes ☒ No Did an injury requiring medical treatment occur?
- Yes ☒ No Did a first-aid injury occur?
- Yes ☒ No Did a vehicle accident occur?
- Yes ☒ No Was a post-job safety meeting held?

Please Circle:

- ☒ Yes ☒ No Was a pre-job safety meeting held?
- ☒ Yes ☒ No Was a job safety analysis completed?
- ☒ Yes ☒ No Were emergency services discussed?
- ☒ Yes ☒ No Did environmental incident occur?
- ☒ Yes ☒ No Did any near misses occur?

Additional Comments:

THE INFORMATION HEREIN IS CORRECT -

X

Customer Representative's Signature

DATE: 1-5-18

Any additional Customer Comments or HSE concerns should be described on the back of this form

SERIES 2000

