



BISON

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

Invoice

Date	Invoice #
1/12/2014	12292

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

Location	Well Name & No.	Terms	Job Type		
Weld CO	PAPPENHEIM 6-62-27-1609BH	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1			
MILEAGE	Mileage charge-Pickup	60			
MILEAGE	Mileage charge-Truck	120			
Data Acquisition ...	Data Acquisition Charge	1			
Service Charge	Iron Inspection	1			
HOURS	Wait Time	1			
	Subtotal of Services				
BFN III Winter ...	BFN III Blend	361	Sack		
KCL Mud Flush	(BHS 117)	6	qt		
Dye - 4880	Dye (Hot Pink 4880)	16	oz		
	Subtotal of Materials				

Please Remit Payment To:

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

Subtotal

Sales Tax (

Total

Balance Du

1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@gwestoffice.net



Nº 12292

WELL NO. AND FARM		COUNTY	STATE	DATE	
Peppenheim 6-702-27-1609BH		Weld	CO	1-12-14	
CHARGE TO		WELL LOCATION		CONTRACTOR	
Bull Barrett		SEC. 27 TWP. 60N RANGE 62W		major	
		DELIVERED TO	LOCATION	CODE	
		608 + 79 3/4	1 shop		
		SHIPPED VIA	LOCATION	CODE	
		3102-3211	2 608 + 79 3/4		
		TYPE AND PURPOSE OF JOB	LOCATION	CODE	
		surface	3 shop		
			WELL TYPE	CODE	
			Gas		

[illegible]

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"

TOTAL

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.



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/11/2014
Invoice #: 12292
API#: 445564
Foreman: MONTE

Customer: bill barrett
Well Name: peppenheim 6-62-27 1609bh-18590d

County: weld
State: colorado
Sec: 27
Twp: 6n
Range: 62w

Consultant: casey
Rig Name & Number: major
Distance To Location: 37.3
Units On Location: 3102-2311
Time Requested: 1:00pm
Time Arrived On Location: 12:00pm
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.6250
Casing Weight (lb) : 36
Casing Depth (ft.) : 814
Total Depth (ft) : 815
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID : 15.5
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 8

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess: 10%
Displacement Fluid lb/gal:
BBL to Pit:
Fluid Ahead (bbls):
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
10 freseh 10 dye 40 fresh

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.10 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 397.83 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing
Depth - Conductor Length)
Total Slurry Volume 416.92 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 81.68 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)
Sacks Needed 361 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 50.64 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 60.15 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe
Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 642.73 PSI

Pressure of the fluids inside casing

Displacement: #N/A psi

Shoe Joint: 34.74 psi

Total #N/A psi

Differential Pressure: #N/A psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 70.64 bbls

X Casey
Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



Bison Oil Well Cementing
Single Cement Surface Pipe

Customer
Well Name

bill barrett
peppenheim 6-62-27 1609bh-18590d

INVOICE #
LOCATION
FOREMAN
Date

12292
weld
MONTE
1/11/2014

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	1:05pm 12:30 2:37	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
MIRU		0	3:26	0	0			0			0			0		
CIRCULATE		10	3:28	40	10			10			10			10		
Drop Plug		20	3:32	70	20			20			20			20		
3:25		30	3:35	170	30			30			30			30		
		40	3:38	270	40			40			40			40		
		50	3:42	280	50			50			50			50		
M & P		60	3:49	570	60			60			60			60		
Time	Sacks	70			70			70			70			70		
2:58-3:23	361	80			80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
% Excess	10%	130			130			130			130			130		
Mixed bbls	50.6	140			140			140			140			140		
Total Sacks	361	150			150			150			150			150		
bbl Returns	19															

Notes:

safety meeting, miru, pressure test per company man, circulate 60 bbls ahead with dye in 2nd 10. mix and pump 361 sks at 10% excess, drop plug and displace 59.5 bbls

drop plug and displace 59.35 bbls h2o,

bump plug at 150 psi above lift pressure at 570 psi at 3:49 pm, hold 5 min release pressure

X Work Performed by barrett Title Co man Date 1/11/2014



Bison Oil Well Cementing Single Cement Surface Pipe

Cementing Customer Satisfaction Survey

Service Date 1/11/2014
Well Name peppenheim 6-62-27 1609bh-18590d
County weld
State colorado
SEC 27
TWP 6n
RNG 62w

Invoice Number 20511
API # 445564
Job Type Single Cement Surface Pipe
Company Name bill barrett

Customer Representative casey

Supervisor Name monte

Employee Name (Including Supervisor)
lee
jeff
kurt

Exposure Hours (Per Employee)

5
5
5
15

Total Exposure Hours

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
Personnel -
Equipment -
Job Design -
Product/Material -
Health & Safety -
Environmental -
Timeliness -
Condition/Appearance -
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 Casey
Customer Representative's Signature

DATE:

10-mar

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