



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/6/2015  
Invoice #: 80053  
API#:   
Foreman: Kirk Kallhoff

Customer: Bill Barrett Corp.  
Well Name: Anschutz State 5-62-26-3225BH2

County: Weld  
State: Colorado  
Sec: 26  
Twp: 5n  
Range: 62w

Consultant: easy  
Rig Name & Number: major 42  
Distance To Location: 47  
Units On Location: 4030-3103/4020-3212  
Time Requested: 1000 am  
Time Arrived On Location: 915 am  
Time Left Location: 12:15 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft.) : 785  
Total Depth (ft) : 795  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) :  
Conductor ID :  
Shoe Joint Length (ft) : 40  
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: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 20.0  
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

cuft of Shoe 17.36 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 422.02 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)  
Total Slurry Volume 439.38 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)  
bbls of Slurry 78.25 bbls  
(Total Slurry Volume) X (.1781)  
Sacks Needed 346 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)  
Mix Water 48.52 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 58.21 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

Hydrostatic Pressure: 619.84 PSI

## Pressure of the fluids inside casing

Displacement: 321.23 psi

Shoe Joint: 31.58 psi

Total 352.81 psi

Differential Pressure: 267.02 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 136.73 bbls

X Casey Lee  
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 Corp.  
Anschutz State 5-62-26-3225BH2

INVOICE #  
LOCATION  
FOREMAN  
Date

80053  
Weld  
Kirk Kallhoff  
3/6/2015

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DESCRIPTION OF JOB EVENTS

|                |       | 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 |
| Safety Meeting | 1026a |            |       |     |            |      |     |            |      |     |            |      |     |            |      |     |
| MIRU           | 1005a |            |       |     |            |      |     |            |      |     |            |      |     |            |      |     |
| CIRCULATE      | 1050a | 0          | 1116a | 10  | 0          |      |     | 0          |      |     | 0          |      |     | 0          |      |     |
| Drop Plug      |       | 10         | 1118a | 10  | 10         |      |     | 10         |      |     | 10         |      |     | 10         |      |     |
| 1116 am        |       | 20         | 1120a | 60  | 20         |      |     | 20         |      |     | 20         |      |     | 20         |      |     |
|                |       | 30         | 1122a | 130 | 30         |      |     | 30         |      |     | 30         |      |     | 30         |      |     |
|                |       | 40         | 1125a | 240 | 40         |      |     | 40         |      |     | 40         |      |     | 40         |      |     |
| M & P          |       | 50         | 1127a | 290 | 50         |      |     | 50         |      |     | 50         |      |     | 50         |      |     |
| Time           | Sacks | 60         |       |     | 60         |      |     | 60         |      |     | 60         |      |     | 60         |      |     |
| 1055 am        | 346   | 70         |       |     | 70         |      |     | 70         |      |     | 70         |      |     | 70         |      |     |
| 1113 am stop   |       | 80         |       |     | 80         |      |     | 80         |      |     | 80         |      |     | 80         |      |     |
|                |       | 90         |       |     | 90         |      |     | 90         |      |     | 90         |      |     | 90         |      |     |
|                |       | 100        |       |     | 100        |      |     | 100        |      |     | 100        |      |     | 100        |      |     |
|                |       | 110        |       |     | 110        |      |     | 110        |      |     | 110        |      |     | 110        |      |     |
| % Excess       | 10%   | 120        |       |     | 120        |      |     | 120        |      |     | 120        |      |     | 120        |      |     |
| Mixed bbls     | 48.5  | 130        |       |     | 130        |      |     | 130        |      |     | 130        |      |     | 130        |      |     |
| Total Sacks    | 346   | 140        |       |     | 140        |      |     | 140        |      |     | 140        |      |     | 140        |      |     |
| bbl Returns    | 15    | 150        |       |     | 150        |      |     | 150        |      |     | 150        |      |     | 150        |      |     |
| Water Temp     |       |            |       |     |            |      |     |            |      |     |            |      |     |            |      |     |

Notes:

bumped plug at 1131 am 520 psi

floats held

X

Work Performed

*Casey*

X

Title

*Co-man*

X

Date

*3-6-15*



# Bison Oil Well Cementing Single Cement Surface Pipe

## Cementing Customer Satisfaction Survey

Service Date 3/6/2015  
Well Name Anschutz State 5-62-26-3225BH2  
County Weld  
State Colorado  
SEC 26  
TWP 5n  
RNG 62w

Invoice Number 80053  
API # 0  
Job Type Single Cement Surface Pipe  
Company Name Bill Barrett Corp.

Customer Representative casy

Supervisor Name kirk

| Employee Name (Including Supervisor) |
|--------------------------------------|
| kirk                                 |
| keith                                |
| sam                                  |
|                                      |
|                                      |

Exposure Hours (Per Employee)

|   |
|---|
| 3 |
| 3 |
| 3 |
|   |
|   |

Total Exposure Hours

9

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

5 Personnel -  
5 Equipment -  
5 Job Design -  
5 Product/Material -  
5 Health & Safety -  
5 Environmental -  
5 Timeliness -  
5 Condition/Appearance -  
5 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:

3-6-15

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



# M/D TOTCO 2000 SERIES

