

**1738 Wynkoop St., Ste. 102  
Denver, Colorado 80202  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: [bisonoil1@qwestoffice.net](mailto:bisonoil1@qwestoffice.net)**



№ 12156

WELL NO. AND FARM 22-19 2N46W Five Rivers	COUNTY Yuma	STATE Colorado	DATE 3-21-19
CHARGE TO Augustus Excell	WELL LOCATION SEC. 19 TWP. 2N RANGE 46W		CONTRACTOR Excell
DELIVERED TO CR39-CRQ		LOCATION 1 Yuma	CODE
SHIPPED VIA 4024-3101-		LOCATION 2 CR39-CRQ	CODE
TYPE AND PURPOSE OF JOB long string		LOCATION 3 Yuma	CODE
		WELL TYPE Gas	CODE

PRICE REFERENCE	DESCRIPTION	UNITS	
		QTY.	MEAS.
	Pump charge	1	E <sub>a</sub>
	mile age	60	E <sub>c</sub>
	mile age	60	E <sub>d</sub>
	Road inspection	1	F
	Data Ass Fee	1	G
	Cement Perz 4½	4½	E <sub>e</sub>
	Auto Wash Shop 4½	4½	E <sub>f</sub>
	Latch down Plug 4½	4½	E <sub>g</sub>
	Cement Load / Tail 215	215	E <sub>h</sub>
	mud Floor 2	2	E <sub>i</sub>
	Kcl .8	.8	E <sub>j</sub>
	Dye 16	16	E <sub>k</sub>
Total Weight	Loaded Miles	Ton 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 1/4% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

## TAX REFERENCES

**"TAXES WILL BE ADDED AT CORPORATE OFFICE"**

**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 Tail & Lead

## Cementing Customer Satisfaction Survey

Service Date	3/21/2014
Well Name	five rivers 22-19
County	yuma
State	colorado
SEC	19
TWP	2n
RNG	46w

Invoice Number	12156
API #	05-125-12079-00
Job Type	
Company Name	asgustus

Customer Representative mark zion

Supervisor Name Aaron Carrasco

Employee Name (Including Supervisor)
aaron
jairo
oscar

Exposure Hours (Per Employee)
4
4
4
12

3038800551

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:

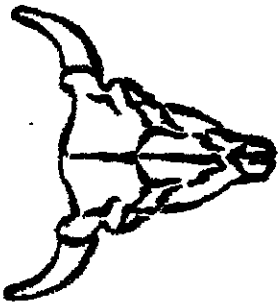
THE INFORMATION HEREIN IS CORRECT -

X

Customer Representative's Signature

DATE:

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



Bison Oil Well Cementing  
Two Cement Surface Pipe

Date

3/21/2014

INVOICE #

12156

LOCATION

yuma

FOREMAN

Aaron Cartasco

Customer

asgustus

Well Name

five rivers 22-19

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	5:56 AM	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	3:46 AM	0	#####	0	0			0			0			0		
MIRU	6:17 AM	10	#####	100	10			10			10			10		
CIRCULATE		20	#####	210	20			20			20			20		
Drop Plug		30	#####	300	30			30			30			30		
		40	#####	470	40			40			40			40		
		50	#####	1000	50			50			50			50		
M & P		60			60			60			60			60		
Time		70			70			70			70			70		
6:36 am- 6:56 am	Sacks	215			80			80			80			80		
					90			90			90			90		
					100			100			100			100		
					110			110			110			110		
					120			120			120			120		
Lead mixed bbls	40	130			130			130			130			130		
Lead % Excess	56%	140			140			140			140			140		
Lead Sacks	140	150			150			150			150			150		

Notes:

Tail mixed bbls	37.2
Tail % Excess	232%
Tail Sacks	249
Total Sacks	388
bbl Returns	

X

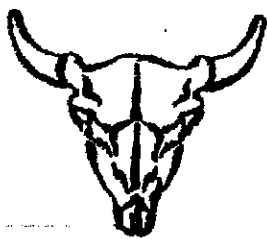
X

X

Work Performed

Title

Date



# Bison Oil Well Cementing Tail & Lead

**Customer:** asgustus  
**Well Name:** five rivers 22-19

**Date:** 3/21/2014  
**Invoice #** 12156  
**API#** 05-125-12079-00  
**Foreman:** Aaron Carrasco

**County:** yuma  
**State:** colorado  
**Sec:** 19  
**Twp:** 2n  
**Range:** 46w

**Consultant:** mark zion  
**Rig Name & Number:** excell rig 2  
**Distance To Location:** 60  
**Units On Location:** 3101-4029  
**Time Requested:** 4:00 AM  
**Time Arrived On Location:** 3:45 AM  
**Time Left Location:**

WELL DATA	Cement Data
<p>Casing Size (in) : 4.500 Casing Weight (lb) : 10.5 Casing Depth (ft) : 2,867 Total Depth (ft) : 2880 Open Hole Diameter (in) : 6.25 Conductor Length (ft) : 0 Conductor ID : 0 Shoe Joint Length (ft) : 43 Landing Joint (ft) : 9</p> <p>Sacks of Tail Requested 75 HOC Tail (ft): 0</p> <p>One or the other, cannot have quantity in both</p> <p>Max Rate: Max Pressure:</p>	<p><b>Lead</b> Cement Name: Cement Density (lb/gal) : 12.1 Cement Yield (cuft) : 2.21 Gallons Per Sack 12.04 % Excess 0%</p> <p><b>Tail</b> Cement Name: Cement Density (lb/gal) : 13.8 Cement Yield (cuft) : 1.33 Gallons Per Sack: 6.28 % Excess: 0%</p> <p>Fluid Ahead (bbls) 0.0 H2O Wash Up (bbls) 0.0</p> <p>Spacer Ahead Makeup 5-kcl =10- dye=45 kcl</p>

Casing ID	4.052	Casing Grade	J-55 only used
<b>Lead Calculated Results</b>		<b>Tail Calculated Results</b>	
HOC of Lead	1923.34 ft	Tail Cement Volume In Ann	99.75 cuft
Casing Depth - HOC Tail		(HOC Tail) X (OH Ann)	
Volume of Lead Cement	197.34 cuft	Total Volume of Tail Cement	95.90 Cuft
HOC of Lead X Open Hole Ann		(HOC Tail X OH Ann) - (Shoe Length X Shoe Joint Ann)	
Volume of Conductor	0.00 cuft	bbls of Tail Cement	17.77 bbls
(Conductor ID Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)		(HOC of Tail) X (OH Ann) + (Cement Yield) X (Shoe Joint Ann) X (.1781) X (% Excess)	
Total Volume of Lead Cement	197.34 cuft	HOC Tail	934.66 ft
(cuft of Lead Cement) + (Cuft of Conductor)		(Tail Cement Volume) ÷ (OH Ann)	
bbls of Lead Cement	35.15 bbls	Sacks of Tail Cement	75.00 sk
(Total cuft of Lead Cement) X (.1781) X (1+%Lead Excess)		(Total Volume of Tail Cement) ÷ (Cement Yield)	
Sacks of Lead Cement	89.29 sk	bbls of Tail Mix Water	11.21 bbls
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		(Sacks of Tail Cement X Gallons Per Sack) ÷ 42	
bbls of Lead Mix Water	25.60 bbls	Pressure of cement in annulus	
(Sacks Needed) X (Gallons Per Sack) ÷ 42		Hydrostatic Pressure	1802.20 PSI
Displacement	45.04 bbls		
(Casing ID Squared) X (.0009714) X (Casing Depth) + (Landing Joint) - (Shoe Length)		Collapse PSI:	#N/A psi
Total Water Needed:	25.60 bbls	Burst PSI:	#N/A psi

X

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.

# M/D TOTCO 2000 SERIES

