

# Bison Oil Well Cementing

Customer: baywater  
Well Name: craig 44-18

Invoice # 12097  
API# 445564  
Foreman: monte  
Date 3/5/2014

County: washington  
State: Colorado  
Sec: 18  
Twp: 4s  
Range: 49w

Consultant: Chuck Jerry Rogers  
Rig Name & Number: excell 3  
Distance To Location: 142.8  
Units On Location: 4028-3102  
Time Requested: 1:00am  
Time Arrived On Location: 12:10am  
Time Left Location:

## Plug Job

### Well Data

OD Inches	4.5
String Weight Per ft	16.6
First Plug Sacks	40
First Plug Depth	3535
Second Plug Sacks	40
Second Plug Depth	2562
Third Plug Sacks	50
Third Plug Depth	212
Fourth Plug Sacks	15
Fourth Plug Depth	53
ID	N/A
First Plug Displacement	N/A 50.26 bbl
Second Plug Displacement	N/A 36.9 bbl
Third Plug Displacement	N/A 30.1 bbl
Fourth Plug Displacement	N/A 7.5 bbl
bbls of Spacer Ahead	5 bbls

### bbls of Slurry

First Plug bbls of Slurry	9.0475 bbls
Second Plug bbls of Slurry	9.0475 bbls
Third Plug bbls of Slurry	#VALUE! 13.72 bbls
Fourth Plug bbls of Slurry	3.3928 bbls
5th Plug bbls of slurry	1.7 bbls
6th Plug bbls of slurry	1.7 bbls

### First Plug Cement Data

Cement Name:	bfn111
Cement Density (lb/gal) :	15.2
Cement Yield (cuft) :	1.27
Gallons Per Sack:	5.89

### Second Plug Cement Data

Cement Name:	bfn111
Cement Density (lb/gal) :	15.2
Cement Yield (cuft) :	1.27
Gallons Per Sack:	5.89

### Third Plug Cement Data

Cement Name:	bfn111
Cement Density (lb/gal) :	15.2
Cement Yield (cuft) :	1.27
Gallons Per Sack:	5.89

### Fourth Plug Cement Data

Cement Name:	bfn111
Cement Density (lb/gal) :	15.2
Cement Yield (cuft) :	1.27
Gallons Per Sack:	5.89

Displacement Fluid lb/gal:	8.3
Fluid Ahead (bbls):	15.0
H2O Wash Up (bbls):	20.0

### bbls of Mix Water

First Plug bbls Mix Water	5.6095 bbls
Second Plug bbls Mix Water	5.6095 bbls
Third Plug bbls Mix Water	7.0119 bbls
Fourth Plug bbls Mix Water	2.1036 bbls
5th Plug bbls mix	1.0 bbls
6th Plug bbls mix	1.0 bbls

X Barry Todd  
Authorized for Release

Customers hereby acknowledge and specifically agree 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

bayswater  
craig 44-18

INVOICE #  
LOCATION  
FOREMAN  
Date

12097  
Washington  
Monte  
3/5/2014

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DESCRIPTION OF JOB EVENTS

		Displace 1			Displace 2			Displace 3			Displace 4		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
Safety Meeting	430 AM												
MIRU	345 AM	0	450	30	0	622	60	0	850	40	0		
CIRCULATE	405	10	454	80	10	624	110	2.18	851	40	10		
CIRCULATE	612	20	457	150	20	627	170				20		
CIRCULATE	845	30	501	250	30	630	230				30		
CIRCULATE	915	40	505	260	30	632	280				40		
M & P		4650	507	260	50			50			50		
	Time	Sacks											
First Plug	440-445	40	70		70			70			70		
Second Plug	615-619	40	80		80			80			80		
Third Plug	846-848	50	90		90			90			90		
Fourth Plug	915-917	15	100		100			100			100		
Mixed bbls			110		110			110			110		
First Plug	5.6		120		120			120			120		
Second Plug	5.6		130		130			130			130		
Third Plug	7.01		140		140			140			140		
Fourth Plug	2.1		150		150			150			150		
Water Temp	34												

Notes:

3547ft  
Safety meeting MIRU Pressure test Per Company min 1st Circulate 4 bbls Ahead mix + Pump 40 sks displace  
5 fresh H<sub>2</sub>O bbls mud 2nd 2582 ft circulate 5 bbls Ahead mix + Pump 40 sks displace 5 fresh  
28 mud 3rd 311 ft circulate 5 bbls Ahead mix + Pump 50 sks displace 9 bbls H<sub>2</sub>O  
4th 60 ft mix + Pump 15 sks displace 1/4 H<sub>2</sub>O 5th mix + Pump 10 sks 6th mix + Pump 10  
sks cement

X

Work Performed

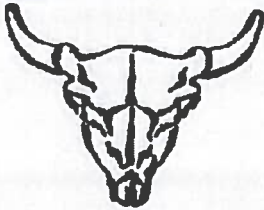
X

Title

X

3-4-14

Date



## Bison Oil Well Cementing Single Cement Surface Pipe

### Cementing Customer Satisfaction Survey

Service Date 3/5/2014  
Well Name craig 44-18  
County washington  
State Colorado  
SEC 18  
TWP 4s  
RNG 49w

Invoice Number 12097  
API # 445564  
Job Type Plug  
Company Name bayswater

Customer Representative roger S

Supervisor Name monte

Employee Name (Including Supervisor)  
kurt  
zach

Exposure Hours (Per Employee)

0

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
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:

3-4-14

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