



# Bison Oil Well Cementing

Customer: NOBLE  
Well Name: MANTEL J23-15

Invoice # 80286  
API# 05-123-156  
Foreman: AARON  
Date 5/21/201

County: WELD

State: Colorado

Sec: 23

Twp: 5N

Range: 66W

Consultant: KEVIN

Rig Name & Number: LEED # 711

Distance To Location: 11 MILLES

Units On Location: 3101-4029-3214-4033

Time Requested: 10AM

Time Arrived On Location: 9AM

Time Left Location:

## Plug Job

### Well Data

OD Inches	2.375	
String Weight Per ft	4.7	
First Plug Sacks	125	
First Plug Depth	4493	
Second Plug Sacks	50	
Second Plug Depth	2497	
Third Plug Sacks	454	
Third Plug Depth	664	
Fourth Plug Sacks		
Fourth Plug Depth		
ID	1.995	
First Plug Displacement	17.3708	bbl
Second Plug Displacement	9.6539	bbl
Thirst Plug Displacement	2.5672	bbl
Fourth Plug Displacement	0.0000	bbl
bbls of Spacer Ahead	5	bbls

### bbls of Slurry

First Plug bbls of Slurry	25.6019 bbls
Second Plug bbls of Slurry	10.2408 bbls
Third Plug bbls of Slurry	92.9860 bbls
Fourth Plug bbls of Slurry	#VALUE! bbls

### First Plug Cement Data

Cement Name:	G CEMENT
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Second Plug Cement Data

Cement Name:	Neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Third Plug Cement Data

Cement Name:	neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Fourth Plug Cement Data

Cement Name:	Neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

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 Wate	14.8810 bbls
Second Plug bbls Mix Wat	5.9524 bbls
Third Plug bbls Mix Wate	54.0476 bbls
Fourth Plug bbls Mix Wat	#VALUE! bbls

X

Authorized 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.

