



Bison Oil Well Cementing

Customer: Noble Energy Inc.

Well Name: Watson E 28-05

Invoice # 80022

API# 05-123-16708

Foreman: Calvin Reimers

Date 4/1/2015

County: Weld

State: Colorado

Sec: 28

Twp: 6N

Range: 65W

Consultant: Pete

Rig Name & Number: Leed714

Distance To Location: 14 Miles

Units On Location: 4027-3106/4035-3204

Time Requested: 830am

Time Arrived On Location: 730am

Time Left Location: 1000am

Plug Job

Well Data

OD Inches	1.315
String Weight Per ft	2.4
First Plug Sacks	177
First Plug Depth	533
Second Plug Sacks	
Second Plug Depth	
Third Plug Sacks	
Third Plug Depth	
Fourth Plug Sacks	
Fourth Plug Depth	

ID	#N/A	
First Plug Displacement	#N/A	bbl
Second Plug Displacement	#N/A	bbl
Third Plug Displacement	#N/A	bbl
Fourth Plug Displacement	#N/A	bbl

bbls of Spacer Ahead 5 bbls

bbls of Slurry

First Plug bbls of Slurry	36.2523 bbls
Second Plug bbls of Slurry	0.0000 bbls
Third Plug bbls of Slurry	0.0000 bbls
Fourth Plug bbls of Slurry	0.0000 bbls

First Plug Cement Data

Cement Name:	Neat G
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) :	
Cement Yield (cuft) :	
Gallons Per Sack:	

Fourth Plug Cement Data

Cement Name:	BFN III
Cement Density (lb/gal) :	
Cement Yield (cuft) :	
Gallons Per Sack:	

Displacement Fluid lb/gal:	8.3
Fluid Ahead (bbls):	5.0
H2O Wash Up (bbls):	20.0

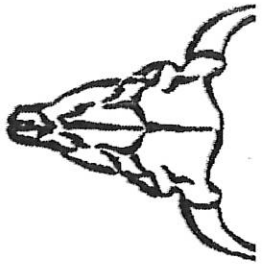
bbls of Mix Water

First Plug bbls Mix Water	21.4/14 bbls
Second Plug bbls Mix Water	0.0000 bbls
Third Plug bbls Mix Water	0.0000 bbls
Fourth Plug bbls Mix Water	0.0000 bbls

X

Authorized To Proceed

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

Noble Energy Inc.
Watson E 28-05

INVOICE #
LOCATION
FOREMAN
Date

80022
Weld
Calvin Reimers
4/1/2015

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	838am	Displace 1			Displace 2			Displace 3			Displace 4		
	730am	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
MIRU		0	907am	530	0			0			0		
CIRCULATE	845am	10			10			10			10		
CIRCULATE		20			20			20			20		
CIRCULATE		30			30			30			30		
CIRCULATE		40			40			40			40		
M & P		50			50			50			50		
First Plug	Time	Sacks	60		60			60			60		
Second Plug	849am	177	70		70			70			70		
Third Plug		0	80		80			80			80		
Fourth Plug		#DIV/0!	90		90			90			90		
		#DIV/0!	100		100			100			100		
Mixed bbls			110		110			110			110		
First Plug	21.1		120		120			120			120		
Second Plug			130		130			130			130		
Third Plug			140		140			140			140		
Fourth Plug			150		150			150			150		
Later Temp	62.1												

Notes:

The day

PSI Test 843am 1500psi, Cidr 5 bbls Dye H2O 845am, Cement 849am 177 sks 36.25 bbls Slurry, Displace 1/2 bbl 907am.

X
Work Performed

X
Title

X
Date