



Bison Oil Well Cementing

Customer: noble
Well Name: chaplin amarol-309

Invoice # 12110
API#
Foreman: monte
Date 4/1/2014

County: weld
State: Colorado

Sec: 5
Twp: 6n
Range: 63w

Consultant: chuck
Rig Name & Number: select 12
Distance To Location: 33.1
Units On Location: 4028-3102 4018-3203
Time Requested: 8:00am
Time Arrived On Location: 7:70am
Time Left Location: 11:00 AM

Plug Job

Well Data

OD Inches	2.875	
String Weight Per ft	6.5	
First Plug Sacks	50	
First Plug Depth	1701	
Second Plug Sacks	210	
Second Plug Depth	700	
Third Plug Sacks		
Third Plug Depth		
Fourth Plug Sacks		
Fourth Plug Depth		
ID	2.441	
First Plug Displacement	9.8455	bbl
Second Plug Displacement	4.0516	bbl
Thirst Plug Displacement	0.0000	bbl
Fourth Plug Displacement	0.0000	bbl
bbls of Spacer Ahead	5	bbls

bbls of Slurry

First Plug bbls of Slurry	11.3094 bbls
Second Plug bbls of Slurry	47.4993 bbls
Third Plug bbls of Slurry	0.0000 bbls
Fourth Plug bbls of Slurry	0.0000 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:	
Cement Density (lb/gal) :	
Cement Yield (cuft) :	
Gallons Per Sack:	

Fourth Plug Cement Data

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

Displacement Fluid lb/gal:	0.5
Fluid Ahead (bbls):	10.0
H2O Wash Up (bbls):	20.0

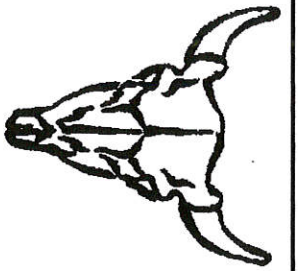
bbls of Mix Water

First Plug bbls Mix Wate	7.0119 bbls
Second Plug bbls Mix Wat	29.4500 bbls
Third Plug bbls Mix Wate	0.0000 bbls
Fourth Plug bbls Mix Wat	0.0000 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.



Bison Oil Well Cementing
Single Cement Surface Pipe

Customer
Well Name

noble
chaplin amarol-309

INVOICE #
LOCATION
FOREMAN
Date

12110
weld
monte
4/1/2014

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DESCRIPTION OF JOB EVENTS

Safety Meeting	8:30	Displace 1			Displace 2			Displace 3			Displace 4		
	7:30	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
MIRU		0	8:55	240	0	8:39	180	0			0		
		10	8:58	240	10	8:40	180	10			10		
CIRCULATE	8:45	20			20			20			20		
CIRCULATE		30			30			30			30		
CIRCULATE		40			40			40			40		
CIRCULATE		50			50			50			50		
M & P		60			60			60			60		
	Time	Sacks											
First Plug	8:50-8:55	50			70			70			70		
Second Plug	8:23-8:39	210			80			80			80		
Third Plug		#DIV/0!			90			90			90		
Fourth Plug		#DIV/0!			100			100			100		
Mixed bbls					110			110			110		
First Plug	7.01				120			120			120		
Second Plug	29.45				130			130			130		
Third Plug					140			140			140		
Fourth Plug					150			150			150		
Water Temp													

Notes:

safety meeting, miru, pressure test per company man, circulate 10 bbls ahead, mix and pump 50 sks bfn 11.15.2 lb 1.27 yield, 5.89 gal displace 9.84 h2o. 170 5.89 h2o, 1701 ft. Circulate 5 bbla ahead, mix and pump 210 sks cement, displace 1/4 h2o, 700 ft to surface. Top off. Wash up rig down.

X Work Performed X Title Date