



NEER:

LEED CEMENT REPORT

OPERATOR: Noble	DATE: 10-20-17	API# 05-123-30130
LEASE NAME: Wells Ranch B3 12-2	RIG # 714	COUNTY: WELD

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	10-20-17				
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	4 1/2" 10" 8 7/8"				
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	805				
SACKS OF CEMENT USED (EACH PLUG):	294				
SLURRY VOLUME PUMPED:	100				
MEASURED TOP OF PLUG:	0				
SLURRY WT. #/GAL. :	15.8				
TYPE CEMENT:	19				
MUD FLUSH USED BBLS:	10				
CALCIUM CHLORIDE USED LBS:	0				
SUGAR USED LBS:	50				


 SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

NAME OF CEMENTING CO.

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2731930	Quote #:	Sales Order #: 0904392145
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Pete Burns	
Well Name: Wells Ranch BB	Well #: 12-02	API/UWI #: 05-123-30130	
Field:	City (SAP): GILL	County/Parish: WELD	State: COLORADO
Legal Description:			
Contractor: Pete Burns		Rig/Platform Name/Num: WORKOVER	
Job BOM: 7528 7528			
Well Type: GAS			
Sales Person: HALAMERICA\HB70026		Srv Supervisor: Steven Markovich	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2607ft Job Depth TVD
Water Depth	Wk Ht Above Floor
Perforation Depth (MD)	From To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		4.5	4	11.6			0	2607		0
Tubing		2.375	1.995	4.7			0	2607		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	2.375			2607		Top Plug	2.375		HES
Float Shoe	2.375					Bottom Plug	2.375		HES
Float Collar	2.375					SSR plug set	2.375		HES
Insert Float	2.375					Plug Container	2.375		HES
Stage Tool	2.375					Centralizers	2.375		HES

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Mud Flush III (Powder)	Mud Flush III	0	bbl	8.4					
42 gal/bbl		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Neat G	HALCEM (TM) SYSTEM	40	sack	15.8	1.15		2	5	
5 Gal		FRESH WATER								

Cement Left In Pipe	Amount	ft	Reason	Shoe Joint
Mix Water:	pH ##	Mix Water Chloride:	## ppm	Mix Water Temperature:
Cement Temperature:	## °F °C	Plug Displaced by:	## lb/gal kg/m3 XXXX	Disp. Temperature:
Plug Bumped?	Yes/No	Bump Pressure:	#### psi MPa	Floats Held?
Cement Returns:	## bbl m3	Returns Density:	## lb/gal kg/m3	Returns Temperature:
Comment Estimated plug length with tubing out 528' Estimated top of cement 2079'				