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## **NOBLE ENERGY INC E-BUSINESS**

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**Burke 24-3**

**Texas**

**Recement Service**

**21-Jan-2013**

**Job Site Documents**

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2976054	Quote #:	Sales Order #: 900157314
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Beam, Ryan	
Well Name: Burke	Well #: 24-3	API/UWI #: 05-123-14522	
Field:	City (SAP): LA SALLE	County/Parish:	State: Texas
Lat: N 40.296 deg. OR N 40 deg. 17 min. 45.442 secs.		Long: W 104.604 deg. OR W -105 deg. 23 min. 44.29 secs.	
Contractor: Leed	Rig/Platform Name/Num:		
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY	Srv Supervisor: BULINSKI, MATTHEW	MBU ID Emp #: 483865	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BULINSKI, MATTHEW J	5.5	483865	DIRKS, RICHARD E	5.5	485940	DODSON, RICHARD Bryan	5.5	518192
ROMERO, JOSEPH M	5.5	512137						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867419C	30 mile	11064535	30 mile	11526488	30 mile	11542778	30 mile
11605598	30 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1-21-13	5.5	2						
TOTAL			Total is the sum of each column separately					

## Job

## Job Times

Formation Name							JOB Times						
Formation Depth (MD)		Top			Bottom		Called Out	Date	Time	Time Zone			
Form Type					BHST		On Location	21 - Jan - 2013	04:00	MST			
Job depth MD		4860. ft			Job Depth TVD		4860. ft	Job Started	21 - Jan - 2013	10:12	MST		
Water Depth					Wk Ht Above Floor			Job Completed	21 - Jan - 2013	12:37	MST		
Perforation Depth (MD)		From			To		Departed Loc	21 - Jan - 2013	13:30	MST			

## Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
10" Open Hole				9.				650.	4132.		
13" Open Hole				13.				439.	650.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6			.	4132.		4633.
Surface Casing	Used		8.625	8.097	24.		J-55	.	439.	.	439.
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	4633.	.	4633.

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

## Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

## Fluid Data

Stage/Plug #: 1



Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	200.0	sacks	13.5	1.48	7.07		7.07
	5 lbm	ENHANCER 923, BULK (101894003)							
	0.2 %	ECONOLITE (100001580)							
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)							
	0.2 %	FE-2 (100001615)							
	0.2 %	HALAD(R)-344, 50 LB (100003670)							
	7.07 Gal	FRESH WATER							
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	250.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	3	Shut In: Instant		Lost Returns	0	Cement Slurry	105	Pad	
Top Of Cement		5 Min		Cement Returns	4	Actual Displacement	3	Treatment	
Frac Gradient		15 Min		Spacers	17	Load and Breakdown		Total Job	125
<b>Rates</b>									
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2		
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					