

HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

**Lemons X6-3
Wattenberg
Weld County , Colorado**

Recement Service

04-Apr-2013

Job Site Documents

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2990784		Quote #: _____		Sales Order #: 900341158	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Burns, Pete			
Well Name: Lemons			Well #: X6-3		API/UWI #: 05-123-15581		
Field: Wattenberg		City (SAP): FORT LUPTON		County/Parish: Weld		State: Colorado	
Lat: N 40.173 deg. OR N 40 deg. 10 min. 21.817 secs.				Long: W 104.709 deg. OR W -105 deg. 17 min. 28.892 secs.			
Contractor: Noble			Rig/Platform Name/Num: Workover #				
Job Purpose: Recement Service							
Well Type: Development Well				Job Type: Recement Service			
Sales Person: FLING, MATTHEW				Srvs Supervisor: LAVALLEY, LARRY		MBU ID Emp #: 419296	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DODSON, RICHARD Bryan	5	518192	LAVALLEY, LARRY P	5	419296	RICHEY, JESSICA L	5	525703
WILEY, JAMES A	5	440080						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025030	17 mile	10972458	17 mile	11019275	17 mile	11488570C	17 mile
11518549	17 mile	11645063	17 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4/4/13	5	2						

TOTAL	Total is the sum of each column separately	
-------	--	--

Job

Job Times

Formation Name						Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	04 - Apr - 2013	07:30	MST
Form Type			BHST		On Location	04 - Apr - 2013	10:30	MST
Job depth MD	4800. ft		Job Depth TVD	4800. ft	Job Started	04 - Apr - 2013	13:30	MST
Water Depth			Wk Ht Above Floor	6. ft	Job Completed	04 - Apr - 2013	16:00	MST
Perforation Depth (MD)	From		To		Departed Loc	04 - Apr - 2013	16:45	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				13.				850.	7524.		
12" Open Hole				12.				640.	850.		
Surface Casing	Used		8.625	8.097	24.		J-55	.	640.	.	.
1 1/4" tubing	Used		1.25	.671	3.02		P-105	.	4800.	.	.
2 7/8 Production Casing	Unknown		2.875	2.441	6.5			.	7524.		

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

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	175.0	sacks	13.5	1.48	7.07	2.0	7.07	
	7.07 Gal	FRESH WATER								
2	15.8# Cement	HALCEM (TM) SYSTEM (452986)	342	sacks	15.8	1.15	5.0	2.0	5.0	
	5 Gal	FRESH WATER								
Calculated Values			Pressures		Volumes					
Displacement	4.5	Shut In: Instant		Lost Returns	0	Cement Slurry	116	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	9	Actual Displacement	4.5	Treatment		
Frac Gradient		15 Min		Spacers	15	Load and Breakdown		Total Job	135.5	
Rates										
Circulating		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						