

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 3110066	Quote #:	Sales Order #: 900802053
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Beam, Ryan	
Well Name: Sandy Hills Farm	Well #: C17-4	API/UWI #: 05-123-15553	
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Lat: N 40.318 deg. OR N 40 deg. 19 min. 4.246 secs.		Long: W 104.582 deg. OR W -105 deg. 25 min. 5.646 secs.	
Contractor: Workover		Rig/Platform Name/Num: Workover 1	
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FLING, MATTHEW		Srvc 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 #
LAVALLEY, LARRY	2	419296	SIMMONS, KEATON J	2	524850	VIATOR, JASON R.	2	550394
WILEY, JAMES A	2	440080						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	33 mile	11488570C	33 mile	11518549	33 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/07/2013	2.5	.5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	07 - Oct - 2013	04:00	MST
Form Type	BHST		Job Started	07 - Oct - 2013	10:30	MST
Job depth MD	550. ft	Job Depth TVD	Job Started	07 - Oct - 2013	10:45	MST
Water Depth		Wk Ht Above Floor	Job Completed	07 - Oct - 2013	11:30	MST
Perforation Depth (MD)	From	To	Departed Loc	07 - Oct - 2013	12:00	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
11." Open Hole				12.				336.	562.		
Surface Casing	Used		8.625	8.097	24.		J-55	.	336.	.	336.
1 1/4"	Unknown		1.25	.	4.7		K-55	.	562.		
4 1/2" Production Casing	Unknown		3.5	3.068	7.7			.	336.		562.

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

HALLIBURTON***Cementing Job Summary***

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	15.8# Cement	HALCEM (TM) SYSTEM (452986)	225.0	sacks	15.8	1.15	5.0		5.0
	5 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1.5	Shut In: Instant		Lost Returns	0	Cement Slurry	46	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	5	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min		Spacers	1	Load and Breakdown		Total Job	48.5
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					

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Legal Description:							
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Job Purpose: Recement Service					Ticket Amount:		
Well Type: Development Well			Job Type: Recement Service				
Sales Person: FLING, MATTHEW			Srvc Supervisor: LAVALLEY, LARRY			MBU ID Emp #: 419296	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/07/2013 04:00							
Arrive at Location from Service Center	10/07/2013 10:00							DID HAZARD HUNT AND SPOTTED TRUCKS AND RIGGEDUP
Wait on Customer or Customer Sub-Contractor Equip	10/07/2013 10:13							WAIT ON CO REP AND WATER TRUCK TO ARRIVE AT LOCATION
Wait on Customer or Customer Sub-Contractor Equipm	10/07/2013 10:30							SITE TURNED OVER TO HES TO FINISH RIG UP
Safety Meeting - Pre Job	10/07/2013 10:35							HELD SAFETY MEETING WITH ALL 3RD PARTY AND HES ON SITE
Start Job	10/07/2013 10:44							ARRIVED LOCATION AND DID SITE ASSESSMENT
Test Lines	10/07/2013 10:48					1897.0		FRESH WATER WITH NO ADDITIVES
Pump Spacer 1	10/07/2013 10:49		2	1	1	283.0		FRESH WATER WITH NO ADDITIVES,TO ESTABLISH INJECTION RATE
Pump Lead Cement	10/07/2013 10:51		2	46	47	706.0		225 SKS HALCEM MIXED @ 15.8 PPG YIELD 1.15 FT3/FT AND 5.0 GAL/SK
Shutdown	10/07/2013 11:03							HAD CEMENT DELIVERY PROBLEM FIXED AND RESTARTED PUMPING

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	10/07/2013 11:21		2	1.5	48.5	898.0		FRESH WATER WITH NO ADDITIVES. AND 5 BBLs CEMENT BACK TO SURFACE
End Job	10/07/2013 11:23							HELD SAFETY MEETING TO RIG DOWN AND DEPART LOCATION
Safety Meeting - Pre Rig- Down	10/07/2013 12:00							

4.0 Attachments

4.1 NOBLE ENERGY SANDY HILLS FARM C17-4-Custom Results.png

