

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2847809	Quote #:	Sales Order #: 8092529
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Z., Eric		
Well Name: Watkins	Well #: CC 18-01J	API/UWI #: 05-123-07492	
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Lat: N 40.317 deg. OR N 40 deg. 19 min. 0.574 secs.	Long: W 104.475 deg. OR W -105 deg. 31 min. 30.36 secs.		
Contractor: Basic	Rig/Platform Name/Num: #12		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: FLING, MATTHEW	Srv 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 #
FANTASIA, JOSEPH Brandon	3	485445	LAVALLEY, LARRY P	3	419296	OZBUN, RYAN Jacob	3	475709

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	30 mile	11488570C	30 mile	11518549	30 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4/8/11	3	1						
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Job Times	Date	Time	Time Zone
				BHST	6460. ft	6460. ft		Wk Ht Above Floor	6. ft		Called Out	08 - Apr - 2011	07:00	MST
											On Location	08 - Apr - 2011	10:00	MST
											Job Started	08 - Apr - 2011	11:29	MST
											Job Completed	08 - Apr - 2011	12:07	MST
											Departed Loc	08 - Apr - 2011	12:45	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
Open Hole				10.				223.	7300.		
Production Casing	New		4.5	4.	11.6		J-55		7265.		
Surface Casing	Used		8.625	8.097	24.		J-55		223.		
Tubing	Unknown		2.875						6150.		

Tools and Accessories

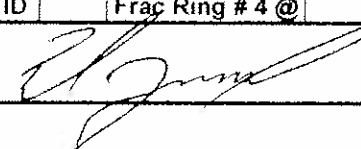
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

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

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Fluid Data										
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	Premium 15.8#	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	200.0	sacks	15.8	1.17	5.02	3.0	5.02	
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)								
	5.02 Gal	FRESH WATER								
Calculated Values			Pressures		Volumes					
Displacement	34	Shut In: Instant		Lost Returns	0	Cement Slurry	46	Pad		
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	33.5	Treatment		
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	80	
Rates										
Circulating		Mixing	3	Displacement	3	Avg. Job	3			
Cement Left In Pipe	Amount	44 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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Cementing Job Log

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Legal Description:			
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Well Type: Development Well		Job Type: Squeeze Perfs	
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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	04/08/2011 11:29							RIG CIRCULATED 1 HOUR PRIOR TO CEMENTING
Test Lines	04/08/2011 11:29						2500. 0	TESTED LINES WITH RIG WATER
Pump Spacer 1	04/08/2011 11:32		3	10	10		367.0	RIG WATER SPACER TO ESTABLISH INJECTION RATE
Pump Lead Cement	04/08/2011 11:36		3	46	46		1120. 0	200 SKS 15.8 PPG NEAT G CEMENT
Pump Displacement	04/08/2011 11:49		3	32	78		1000. 0	RIG WATER WITH NO ADDITIVES RIG STUNG OUT AND WE PUMPED REMAINDER OF DISPLACEMENT.
Other	04/08/2011 12:04			2	80		317.5	RIG STUNG OUT OF RETAINER THEN PULLED 4 STANDS AND RIG REVERSED OUT.
End Job	04/08/2011 12:07							