



HALLIBURTON

NOBLE ENERGY INC E-BUSINESS

Alter C 16-28D

H&P 322

Post Job Summary
Plug Service - Whipstock

Prepared for: Kelli Hale
Date Prepared: 1/30/2012
Version: 1

Service Supervisor: Chris Pickell

Submitted by: Jess Jacobs

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
01/29/2012 01:27		Start Job					
01/29/2012 01:29		Test Lines	1			3900.0	PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
01/29/2012 01:57		Pump Spacer I	2	10		84.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 02:07		Pump Cement	4	13.5		95.0	PUMP PLUGCEM CEMENT 50 SKS 15.8 PPG 1.52 CUFT/SK 6.21 GAL/SK MIXED WITH RIG WATER
01/29/2012 02:13		Pump Spacer I	1	1		70.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 02:17		Pump Displacement	6	80		185.0	DISPLACE WITH RIG MUD. CALCULATED DISPLACEMENT WAS 94 BBL. ACTUAL DISPLACEMENT WAS 80 BBL
01/29/2012 02:34		Shutdown					SHUTDOWN FOR RIG TO PULL PIPE OUT OF HOLE, CIRCULATE THE WELL AND SPOT PILL
01/29/2012 02:35		Pause					
01/29/2012 04:53		Resume					
01/29/2012 04:55		Pump Spacer I	4	10		160.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 05:00		Pump Cement	4	13.5		150.0	PUMP PLUGCEM CEMENT 50 SKS 15.8 PPG 1.52 CUFT/SK 6.21 GAL/SK MIXED WITH RIG WATER
01/29/2012 05:08		Pump Spacer I	1	1		80.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 05:13		Pump Displacement	6	49		185.0	PUMP DISPLACEMENT USING RIG MUD. CALCULATED DISPLACEMENT WAS 59.2 BBL. ACTUAL DISPLACEMENT WAS 49 BBL
01/29/2012 05:28		Shutdown					SHUTDOWN FOR RIG TO PULL PIPE OUT OF HOLE, CIRCULATE THE WELL AND SPOT PILL
01/29/2012 05:29		Pause					
01/29/2012 08:07		Resume					
01/29/2012 08:07		Pump Spacer I	4	10		140.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 08:17		Pump Cement	3	33.5		170.0	PUMP PLUGCEM CEMENT 200 SKS 17.5 PPG .94 CUFT/SK 3.42 GAL/SK MIXED WITH RIG WATER
01/29/2012 08:30		Pump Spacer I	1	2		84.0	PUMP TUNED SPACER III 13.5 PPG 8.43 CUFT/SK 55.95 GAL/SK MIXED WITH RIG WATER
01/29/2012 08:32		Pump Displacement	4	16.5		111.0	PUMP DISPLACEMENT USING RIG MUD. CALCULATED DISPLACEMENT WAS 19.6 BBL. ACTUAL DISPLACEMENT WAS 16.5 BBL
01/29/2012 08:37		Shutdown					
01/29/2012 08:41		End Job					

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2904585	Quote #:	Sales Order #: 9242084
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: DRAHOTA, JOHN		
Well Name: Alter	Well #: C 16-28D	API/UWI #:	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Contractor: H&P	Rig/Platform Name/Num: 322		
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well	Job Type: Plug Service - Whipstock		
Sales Person: FLING, MATTHEW	Srv Supervisor: PICKELL, CHRISTOPHER	MBU ID Emp #: 396838	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURGESS, CODY Alan		511446	MEADOWS, DANIEL Graham		500668	OZBUN, RYAN Jacob		475709
PICKELL, CHRISTOPHER Lee		396838						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	32 mile	10867419C	32 mile	11360865C	32 mile	11362287C	32 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL								

Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	28 - Jan - 2012	21:30	MST
Job depth MD	7170. ft		Job Depth TVD	7170. ft	Job Started	29 - Jan - 2012	01:27
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	29 - Jan - 2012	08:41
Perforation Depth (MD)	From		To	Departed Loc	29 - Jan - 2012	10:30	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
Open Hole				7.875				750.	7498.	.	.
Surface Casing	Used		8.625	8.097	24.		J-55	.	729.	.	.
Drill Pipe	New		4.	4.	14.37			.	7170.	.	.

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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	10.00	bbl	13.5	8.43	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	Plug cem 15.8#	PLUGCEM (TM) SYSTEM (452969)	50.0	sacks	15.8	1.52	6.21		6.21
	6.21 Gal	FRESH WATER							
3	TUNED SPACER III	TUNED SPACER III - SBM (483826)	1.00	bbl	13.5	8.43	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
4	TUNED SPACER III	TUNED SPACER III - SBM (483826)	10.00	bbl	13.5	8.43	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
5	PLUGCEM 15.8#	PLUGCEM (TM) SYSTEM (452969)	50.0	sacks	15.8	1.52	6.21		6.21
	6.21 Gal	FRESH WATER							
6	TUNED SPACER III	TUNED SPACER III - SBM (483826)	1.00	bbl	13.5	8.43	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
7	TUNED SPACER III	TUNED SPACER III - SBM (483826)	10.00	bbl	13.5	8.45	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
8	PLUGCEM 17.5#	PLUGCEM (TM) SYSTEM (452969)	200.0	sacks	17.5	.94	3.42		3.42
	3.42 Gal	FRESH WATER							
9	TUNED SPACER III	TUNED SPACER III - SBM (483826)	2.00	bbl	13.5	8.43	55.95	.0	
	37.58 gal/bbl	FRESH WATER							
	87.7 lbm/bbl	BARITE, 100 LB SK (100003680)							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
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					