

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300496	Ship To #: 2845475	Quote #:	Sales Order #: 8064202
Customer: APACHE CORP		Customer Rep: Stanley, Josh	
Well Name: Hager	Well #: 1-12	API/UWI #:	
Field:	City (SAP): PLAINS	County/Parish: Meade	State: Kansas
Legal Description: Section 13 Township 34S Range 27W			
Contractor: Duke	Rig/Platform Name/Num: #6		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MEREDITH, JERRY	Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN J	6	442123	GOMEZ, OSCAR	3	490448	LOPEZ, CARLOS	3	321975
MCJILTON, LONDON Kyle	6	489077	SMITH, BOBBY Wayne	6	106036			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD) From	To	Called Out	Date	Time	Time Zone
			BHST	1630. ft	Wk Ht Above Floor			28 - Mar - 2011	08:30		CST
			75 degF	Job Depth TVD	2. ft			28 - Mar - 2011	11:30		CST
				1636.4 ft				28 - Mar - 2011	14:24		CST
								28 - Mar - 2011	15:42		CST
								28 - Mar - 2011	17:30		CST

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
12-1/4" Surface Open Hole				12.25				80.	1600.		
20" Pre-Set Conductor	New		20.	19.124	94.				80.		
8-5/8" Surface Casing	New		8.625	8.097	24.	8 RD (ST&C)	J-55		1600.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,8-5/8 8RD	1	EA		
VLVASSY,INSR FLOAT,8-5/8 8RD, 24 LBS/FT	1	EA		
FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	5	EA		
HALLIBURTON WELD-A KIT	1	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		

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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	Conc	

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	Water Spacer		0	bbbl	8.3	.0	.0	.0	
2	Lead Cement	MIDCON-2 CEMENT STANDARD - SBM (15078)	450	sacks	11.4	2.95	18.09		18.09
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.5 lbm	POLY-E-FLAKE (101216940)							
	0.01 %	WG-17, 50 LB SK (100003623)							
	18.09 Gal	FRESH WATER							
3	Tail Cement	CMT - STANDARD CEMENT (100003684)	205	sacks	15.6	1.2	5.18		5.18
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.5 lbm	POLY-E-FLAKE (101216940)							
	5.177 Gal	FRESH WATER							
4	Fresh Water Displacement		101.4	bbbl	9.	.0	.0	.0	

Calculated Values

Pressures

Volumes

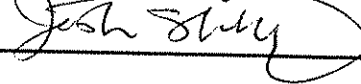
Displacement	Shut In: Instant	Lost Returns	Cement Slurry	Pad
Top Of Cement	5 Min	Cement Returns	Actual Displacement	Treatment
Frac Gradient	15 Min	Spacers	Load and Breakdown	Total Job

Rates

Circulating	Mixing	Displacement	Avg. Job
Cement Left In Pipe	Amount 40 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



Cementing Job Log

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Field:	City (SAP): PLAINS	County/Parish: Meade	State: Kansas
Legal Description: Section 13 Township 34S Range 27W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Duke	Rig/Platform Name/Num: #6		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MEREDITH, JERRY	Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/28/2011 08:30							
Depart Location Safety Meeting	03/28/2011 10:30							
Arrive At Loc	03/28/2011 11:30							
Assessment Of Location Safety Meeting	03/28/2011 11:30							casing on bottom rig is circulating. Waiting on the bulk trucks.
Pre-Rig Up Safety Meeting	03/28/2011 11:35							
Rig-Up Completed	03/28/2011 12:00							
Other	03/28/2011 13:50							Bulk trucks on location.
Other	03/28/2011 13:55							safety meeting with bulk trucks and rigged them up.
Safety Meeting - Pre Job	03/28/2011 14:15							
Start Job	03/28/2011 14:24							we used the water in the frac tank.
Test Lines	03/28/2011 14:24						3000.0	
Pump Lead Cement	03/28/2011 14:28		6	236.4			100.0	450 sx = 1327.5 ft3 = top of cement surface
Pump Tail Cement	03/28/2011 15:07		6	43.81			100.0	205 sx = 246 ft3. top of cement 1077.26 ft
Drop Top Plug	03/28/2011 15:15							
Pump Displacement	03/28/2011 15:17		6	0			100.0	water
Bump Plug	03/28/2011 15:40		2	101.3		500.0	2000.0	
Check Floats	03/28/2011 15:41							float held.

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8064202

SUMMIT Version: 7.20.130

Monday, March 28, 2011 04:19:00

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	03/28/2011 15:42							100 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	03/28/2011 15:45							
Rig-Down Completed	03/28/2011 17:00							
Safety Meeting - Departing Location	03/28/2011 17:15							
Depart Location for Service Center or Other Site	03/28/2011 17:30							Thank you for calling Halliburton. Bob and crew.