

# HALLIBURTON

## Cementing Job Summary

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343322	<b>Ship To #:</b> 2791630	<b>Quote #:</b>	<b>Sales Order #:</b> 7458682
<b>Customer:</b> JETTA - EBUS		<b>Customer Rep:</b> Thompson, Tim	
<b>Well Name:</b> Veda Taylor	<b>Well #:</b> 1	<b>API/UWI #:</b>	
<b>Field:</b>	<b>City (SAP):</b> WALSH	<b>County/Parish:</b> Baca	<b>State:</b> Colorado
<b>Legal Description:</b> Section 10 Township 35S Range 43W			
<b>Contractor:</b> MURFIN		<b>Rig/Platform Name/Num:</b> 22	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HESTON, MYRON		<b>Srvc Supervisor:</b> WOODROW, JOHN	<b>MBU ID Emp #:</b> 105848

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
Aguilera, Fabian	10	442123	Carrillo, Eduardo	10	371263	Hayes, Craig	10	449385
WOODROW, JOHN Phillip	10	105848						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10243558	150 mile	10286731	150 mile	10714253C	150 mile	10866807	150 mile
10949716	150 mile	10994449	150 mile	11019295	150 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6/27/10	5	2						

**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	27 - Jun - 2010	07:00	CST
Job depth MD	15200. ft		Job Depth TVD	Job Started	27 - Jun - 2010	11:00	CST
Water Depth			Wk Ht Above Floor	Job Completed	27 - Jun - 2010	14:11	CST
Perforation Depth (MD)	From		To	Job Completed	27 - Jun - 2010	00:00	CST
				Departed Loc	27 - Jun - 2010	16:00	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
Surface Hole				12.25					1500.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		1500.		

### Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		
SHOE,GID,8-5/8 8RD	1	EA		
CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA		
AUTOFILL KIT,TROPHY SEAL	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	6	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT,HALL WELD-A	2	EA		

### Tools and Accessories

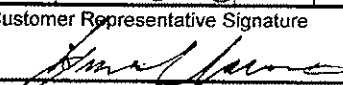
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

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## Cementing Job Summary

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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
1	Water Pre-Flush		10.00	bbl	8.33	.0	.0	.0			
2	Mid Con 2 Standard	VARICEM (TM) CEMENT (452009)	380.0	sacks	11.4	2.93	17.98		17.98		
	0.1 %	WG-17, 50 LB SK (100003623)									
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)									
	0.5 lbm	POLY-E-FLAKE (101216940)									
	17.979 Gal	FRESH WATER									
3	STANDARD	HALCEM (TM) SYSTEM (452986)	175.0	sacks	15.6	1.2	5.22		5.22		
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)									
	0.25 lbm	POLY-E-FLAKE (101216940)									
	5.218 Gal	FRESH WATER									
4	Displacement		94.00	bbl	8.33	.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 							

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## Cementing Job Log

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Sold To #: 343322	Ship To #: 2791630	Quote #:	Sales Order #: 7458682
Customer: JETTA - EBUS		Customer Rep: Thompson, Tim	
Well Name: Veda Taylor	Well #: 1	API/UWI #:	
Field:	City (SAP): WALSH	County/Parish: Baca	State: Colorado
Legal Description: Section 10 Township 35S Range 43W			
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: MURFIN		Rig/Platform Name/Num: 22	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: HESTON, MYRON		Srv Supervisor: WOODROW, JOHN	MBU ID Emp #: 105848

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	06/27/2010 06:45							Check with Dispatch; Make out Journey Management; Service Supervisor going from Pampa Yard to catch Job with Liberal/Ks; Crew; Load for 8 5/8 Surface Job
Call Out	06/27/2010 07:00							
Crew Leave Yard	06/27/2010 08:30							Journey management to dispatch; Route of Travel
Arrive At Loc	06/27/2010 11:00							Rig laying down Drill Collars; Pump Truck & Bulk Cement on Location ; Get Float Equip; on Rig Floor
Rig-Up Completed	06/27/2010 11:00							
Other	06/27/2010 11:30							Rig up Casing Crew
Other	06/27/2010 11:45							Start Running 1520 Ft. of 24# LT&C Casing / Strap first 3 Jts.
Casing on Bottom	06/27/2010 13:15							Casing on Bottom 1520 Ft.
Other	06/27/2010 13:20							Hook up 8 5/8 P/C & Circulating Iron
Circulate Well	06/27/2010 13:30							Start circulating with Rig pump
Pre-Job Safety Meeting	06/27/2010 14:00							Hold pre job Safety Meeting / Discuss Staying clear of Iron While Pressure Testing & Pumping / Discuss Job Plan

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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	06/27/2010 14:05							Through circulating / Hook up to Pump Truck
Test Lines	06/27/2010 14:11						2500. 0	Test Pump & Lines 2500#/PSI
Pump Spacer	06/27/2010 14:12		6		10		150.0	Pump 10 BBLS; F/W Ahead ; Establish circulation
Pump Lead Cement	06/27/2010 14:15		6		198		150.0	Start mixing 380 SKS Mid Con 2 Lead cmt @ 11.4#/gal
Pump Tail Cement	06/27/2010 14:47		6		37.4			Start mixing 175 SKS Standard Class A Tail cmt @ 15.6#/gal
Shutdown	06/27/2010 14:52							Through mixing cement / Shut Down
Drop Top Plug	06/27/2010 14:53							Release Plug
Pump Displacement	06/27/2010 14:54		6				60.0	Start Displacing with F/W
Cement Returns to Surface	06/27/2010 14:58		6				180.0	Have 30 BBLS; out / have cement returns to surface
Slow Rate	06/27/2010 15:10		3		85		450.0	Have 85 bbls. out / slow rate to 3 BPM
Bump Plug	06/27/2010 15:15				94		1400. 0	Max lift pressure before landing plug / 500#
Check Floats	06/27/2010 15:16							Release Pressure / got 1 bbl back / fno flow back / floats holding/ circulated 60 bbls.= 114 sks to Surface
Pre-Rig Down Safety Meeting	06/27/2010 15:20							Discuss lifting / pinch points/ Rig down procedure
Rig-Down Completed	06/27/2010 15:45							
Crew Leave Location	06/27/2010 16:00							

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