

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2843861	Quote #:	Sales Order #: 8043873
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 secs.	
Contractor: Murfin	Rig/Platform Name/Num: #22		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: HESTON, MYRON	Srv 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	12	442123	ARCHULETA, ERICK	12	454260	BERUMEN, EDUARDO	12	267804
SMITH, BOBBY Wayne	12	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 Total is the sum of each column separately

### Job

### Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Bottom	Called Out	18 - Mar - 2011 17:00 CST
Form Type	BHST	On Location	18 - Mar - 2011 20:00 CST
Job depth MD <del>1652</del> 4656-ft	Job Depth TVD <del>1652</del> 1605-ft	Job Started	19 - Mar - 2011 03:37 CST
Water Depth	Wk Ht Above Floor 3. ft	Job Completed	19 - Mar - 2011 05:30 CST
Perforation Depth (MD) From	To	Departed Loc	19 - Mar - 2011 08:00 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
12 1/4" Surface Hole				12.25					1650.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55		1650.		

### 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	8	EA		
CLP, LIM, 8 5/8, FRICT, WTH DOGS	1	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT, HALL WELD-A	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		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	6.0			
2	Lead Slurry	VARICEM (TM) CEMENT (452009)					540.0	sacks	11.4	2.95	18.09	6.0	18.09		
	3 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)													
	0.1 %	WG-17, 50 LB SK (100003623)													
	0.5 lbm	POLY-E-FLAKE (101216940)													
	18.09 Gal	FRESH WATER													
3	Tail Slurry	HALCEM (TM) SYSTEM (452986)					200.0	sacks	15.6	1.2	5.22	6.0	5.22		
	2 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)													
	0.25 lbm	POLY-E-FLAKE (101216940)													
	5.218 Gal	FRESH WATER													
4	Displacement						103.00	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 45		Actual Displacement			Treatment				
Frac Gradient			15 Min			Spacers		Load and Breakdown			Total Job				
Rates															
Circulating			Mixing			Displacement			Avg. Job						
Cement Left In Pipe		Amount	42 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

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2843861	Quote #:	Sales Order #: 8043873
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 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	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	03/18/2011 17:00							
Depart Location Safety Meeting	03/18/2011 18:30							
Arrive At Loc	03/18/2011 20:00							
Assessment Of Location Safety Meeting	03/18/2011 20:00							Rig is short tripping the drill pipe in the hole.
Pre-Rig Up Safety Meeting	03/18/2011 20:05							
Rig-Up Completed	03/18/2011 21:00							
Other	03/18/2011 22:15							Rig pulling drill pipe
Other	03/18/2011 23:30							drill pipe out of the hole casing crew rigging up.
Other	03/19/2011 00:00							casing going in the hole
Other	03/19/2011 03:10							casing on bottom rig is circulating.
Safety Meeting - Pre Job	03/19/2011 03:30							
Start Job	03/19/2011 03:37							
Test Lines	03/19/2011 03:39						3000.0	
Pump Spacer 1	03/19/2011 03:43		5	10			200.0	water
Pump Lead Cement	03/19/2011 03:55		5	283.7 1			200.0	540 sx = 1593 ft3 = top of cement surface
Pump Tail Cement	03/19/2011 04:48		5	42.74			200.0	200 sx = 240 ft3. top of cement 1123.44 ft
Drop Top Plug	03/19/2011 04:57							
Pump Displacement	03/19/2011 05:00		5	0			200.0	water

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #:

8043873

SUMMIT Version: 7.20.130

Saturday, March 19, 2011 06:05:00

# HALLIBURTON

## *Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	03/19/2011 05:26		2	102.9 6		500.0	1200. 0	
Check Floats	03/19/2011 05:27							float held.
End Job	03/19/2011 05:29							45 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	03/19/2011 05:35							
Rig-Down Completed	03/19/2011 07:30							
Safety Meeting - Departing Location	03/19/2011 07:45							
Depart Location for Service Center or Other Site	03/19/2011 08:00							Thank you for calling Halliburton. Bob and crew.

Sold To # : 300466

Ship To # :2843861

Quote # :

Sales Order # : 8043873

SUMMIT Version: 7.20.130

Saturday, March 19, 2011 06:05:00

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 2843861		Quote #:		Sales Order #: 8050569	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Almanza, Abraham			
Well Name: Pro Farms			Well #: 21-4		API/UWI #: 15-187-21193		
Field: ARROYO		City (SAP): JOHNSON		County/Parish: Stanton		State: Kansas	
Legal Description: Section 21 Township 29S Range 41W							
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.				Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 secs.			
Contractor: MURFIN DRILLING			Rig/Platform Name/Num: 22				
Job Purpose: Cement Production Casing							
Well Type: Development Well				Job Type: Cement Production Casing			
Sales Person: HESTON, MYRON			Srcv Supervisor: VILLANUEVA, EDUARDO			MBU ID Emp #: 341956	
<b>Job Personnel</b>							
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #
LEE, SEITH Adam		7	483600	LOPEZ, JUAN R		7	198514
				VILLANUEVA, EDUARDO		7	341956
<b>Equipment</b>							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10240236	85 mile	10804587	85 mile	10825440	85 mile	10866807	85 mile
11133700	85 mile						
<b>Job Hours</b>							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
3-23-2011	7	2					
<b>TOTAL</b>				Total is the sum of each column separately			
<b>Job</b>				<b>Job Times</b>			
Formation Name				Date		Time	
Formation Depth (MD) Top		Bottom		Called Out		22 - Mar - 2011 20:00	
Form Type		BHST		On Location		23 - Mar - 2011 01:30	
Job depth MD 5620-5625 ft		Job Depth TVD 5620-5625 ft		Job Started		23 - Mar - 2011 04:30	
Water Depth		Wk Ht Above Floor		Job Completed		23 - Mar - 2011 06:30	
Perforation Depth (MD) From		To		Departed Loc		23 - Mar - 2011 08:00	
<b>Well Data</b>							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
7 7/8" Production Hole				7.875			
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (ST&C)	J-55
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55
Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft				
1650.	5650.	5620	5620				
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>							
Description				Qty	Qty uom	Depth	Supplier
SHOE,GID,5-1/2 8RD				1	EA		
PLUG ASSY,3 WIPR LTH-DWN,5 1/2 CSG				1	EA		
BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN				1	EA		
CENTRALIZER ASSY - TURBO - API -				20	EA		
KIT,HALL WELD-A				1	EA		
<b>Tools and Accessories</b>							
Type	Size	Qty	Make	Depth	Type	Size	Qty
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float					Top Plug		
					Bottom Plug		
					SSR plug set		
					Plug Container		

# HALLIBURTON

# 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													
<b>Stage # 1</b>													
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					bbl	8.33	.0	.0	6.0			
2	Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)			25.0	sacks	10.5	4.22	25.99	6.0	25.99		
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)											
	5 %	POTASSIUM CHLORIDE 5% (100001585)											
	8 lbm	GILSONITE, BULK (100003700)											
	0.5 %	HALAD(R)-322, 50 LB (100003646)											
	25.992 Gal	FRESH WATER											
3	Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)			260.0	sacks	13.9	1.52	6.16	6.0	6.16		
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)											
	5 %	POTASSIUM CHLORIDE 5% (100001585)											
	8 lbm	GILSONITE, BULK (100003700)											
	0.5 %	HALAD(R)-322, 50 LB (100003646)											
	6.162 Gal	FRESH WATER											
4	CLAYFIX DISPACEMENT				133.00	bbl	8.33	.0	.0	6.0			
	0.21 gal/bbl	CLAYFIX 3, 5 GAL PAIL (101810105)											
Calculated Values		Pressures		Volumes									
Displacement	133	Shut In: Instant		Lost Returns	NO	Cement Slurry		98	Pad				
Top Of Cement	2800	5 Min		Cement Returns	NO	Actual Displacement		133	Treatment				
Frac Gradient		15 Min		Spacers		Load and Breakdown			Total Job				
Rates													
Circulating	5	Mixing	5	Displacement	6	Avg. Job		5					
Cement Left in Pipe	Amount	42 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									

*[Handwritten Signature]*

# HALLIBURTON

## Cementing Job Log

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Sold To #: 300466	Ship To #: 2843861	Quote #:	Sales Order #: 8050569
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 secs.	
Contractor: MURFIN DRILLING		Rig/Platform Name/Num: 22	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HESTON, MYRON		Srvc Supervisor: VILLANUEVA, EDUARDO	MBU ID Emp #: 341956

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/22/2011 20:00							5-1/2" PROD, CSG.
Depart Yard Safety Meeting	03/22/2011 20:50							DISCUSSED ROUTE W/CREW.
Crew Leave Yard	03/22/2011 21:00							DID JOURNY, W/DISPATCH.
Arrive At Loc	03/23/2011 01:45							GOT W/CO, MAN WENT OVER CMT, WATER ON JOB.
Pre-Rig Up Safety Meeting	03/23/2011 02:00							DISCUSSED SAFETY, & RED ZONE.
Rig-Up Equipment	03/23/2011 03:00							SPOT TRUCKS RIG UP LINES.
Wait on Customer or Customer Sub-Contractor Equip	03/23/2011 03:20							RIG RUNNING CSG.
Casing on Bottom	03/23/2011 04:00							5622 FT. 15.5# J-55. S-J=38.75
Circulate Well	03/23/2011 04:30							STAB CMT, HEAD & CIRCULATE WELL.
Pre-Job Safety Meeting	03/23/2011 04:50							WITH RIG & HALLIBURTON.
Start Job	03/23/2011 05:13							
Test Lines	03/23/2011 05:14						4000.0	TEST LINES 4,000 PSI.
Pump Lead Cement	03/23/2011 05:20		5	18			400.0	PUMP 18, BBLS SCGER, @ 10.5 #
Pump Tail Cement	03/23/2011 05:24		4	70			330.0	PUMP 70, BBLS TAIL @ 13.9 #
Shutdown	03/23/2011 05:40							WASH UP PUMPS & LINES.
Drop Top Plug	03/23/2011 05:45							5-1/2" LATCH DOWN PLUG.

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SUMMIT Version: 7.20.130

Wednesday, March 23, 2011 06:46:00

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	03/23/2011 05:47		6	133			140.0	DISPLACE== 133, BBLs 2% KCL.
Displ Reached Crmnt	03/23/2011 06:00		6	80			350.0	CATCH CMT, @ 6,BPM. 80,BBL AWAY.
Slow Rate	03/23/2011 06:02		3	85			240.0	SLOW TO 3, BPM. 85,BBL AWAY.
Bump Plug	03/23/2011 06:16		3	133			2200. 0	BUMP @ 3,BPM. 2100 TO 2200 PSI.
Check Floats	03/23/2011 06:20						.0	FLOATS HOLDING GOT, 1,BBL BACK.
End Job	03/23/2011 06:25							GOOD RETURNS, JOB COMPLETE.
Pre-Rig Down Safety Meeting	03/23/2011 06:30							DISCUSSED SAFETY, & PINCH POINTS.
Rig-Down Equipment	03/23/2011 07:30							SAFELY.
Depart Location Safety Meeting	03/23/2011 07:45							DISCUSSED SAFE ROUTE.
Crew Leave Location	03/23/2011 08:00							THANKS FOR USEING H-E-S, EDUARDO V.

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #:

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Wednesday, March 23, 2011 06:46:00