

**K P KAUFFMAN CO, INC. EBIZ  
1675 BROADWAY STE 2800-DO NOT MAIL  
DENVER, Colorado**

Amen  
Amen #1

Workover/Workover

## **Post Job Summary** **Cement via Annulus**

Prepared for: Susana Lara-Mesa  
Date Prepared: 02/27/2013  
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: MCKAY, ADAM

**HALLIBURTON**

# HALLIBURTON

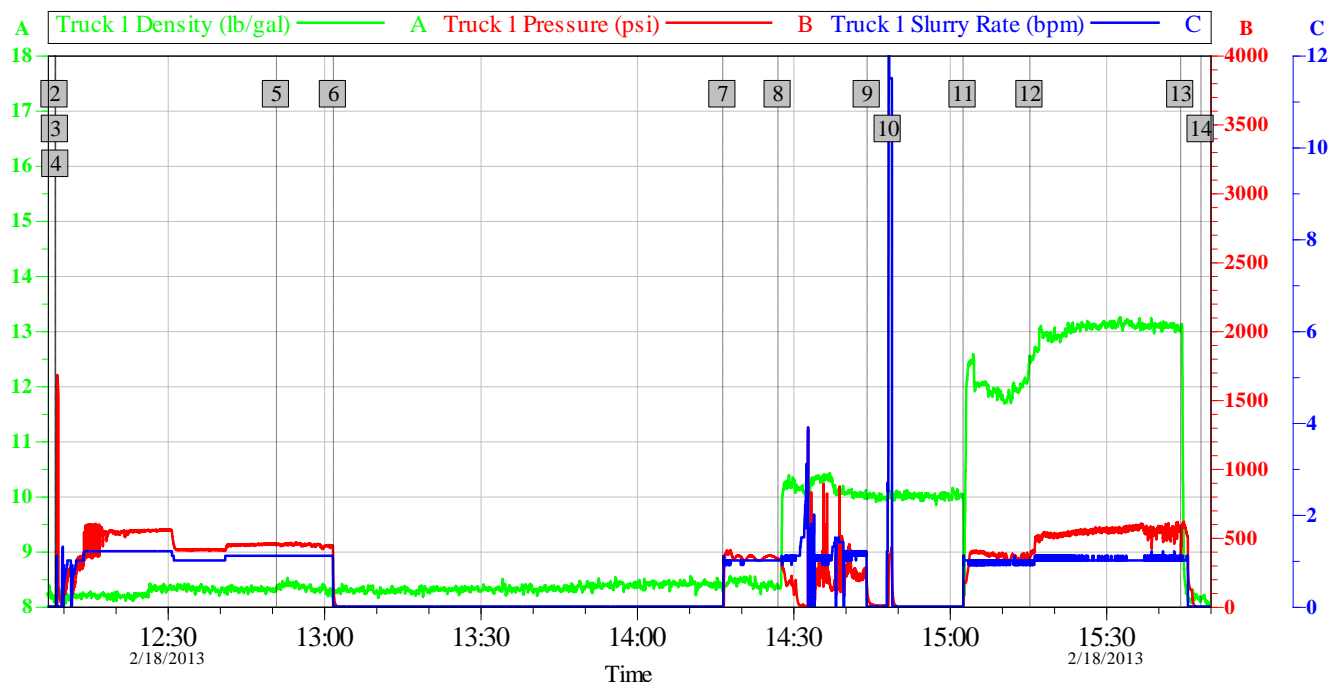
## Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Casing	8 5/8" Surface Casing	8.63	8.097	24.00	0.00	320.00
Casing	4 1/2" Production Casing	4.50	4.000	11.60	0.00	7,354.00
Tubing	1 1/4" Tubing	1.25	.824	2.40	0.00	640.00
Open Hole Section	10" Open Hole Section		10.000		320.00	6,300.00

## Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	MUD FLUSH III	8.40	1.00	24.0 bbl	24.0 bbl
1	2	Spacer	Viscous Pill	10.00	1.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SURFACE VARICEM	12.00	1.00	50.0 sacks	50.0 sacks
1	4	Cement Slurry	SURFACE VARICEM	13.00	1.00	80.0 sacks	80.0 sacks

## Data Acquisition



### Global Event Log

2 Start Job	12:08:27	3 Test Lines	12:08:31	4 Circulate Well	12:08:36
5 Mud Flush	12:50:55	6 Shutdown	13:01:50	7 Mud Flush	14:16:32
8 10 ppg Clean Spacer	14:27:07	9 Shutdown	14:44:13	10 Clean Lines	14:48:14
11 12 ppg Surface Vericem	15:02:36	12 13 ppg Surface Vericem	15:15:26	13 Clean Lines	15:44:21
14 End Job	15:48:15				

Customer: KPK  
Well Description: Amen #1

Job Date: 18-Feb-2013  
Job Type: Recement

Sales Order #: 1  
Supervisor: N. VIGIL

OptiCem v6.4.10  
18-Feb-13 16:00

## ***Service Supervisor Reports***

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### **Job Log**

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
02/18/2013 08:20		Arrive At Loc						Well site assesment,Hazard hunt, Water test,Rig up safety meeting, Had to wait for new water to show up water was bad
02/18/2013 12:08		Start Job						Pre job safety meeting
02/18/2013 12:08		Test Lines						Pressure tested lines to 1500 psi
02/18/2013 12:08		Circulate Well	1	47			410.0	Pumped bottoms up
02/18/2013 12:50		Pump Spacer 1	1	12			435.0	Mud Flush
02/18/2013 13:01		Shutdown						Waited for rig to pooh
02/18/2013 14:16		Pump Spacer 2	1	12			330.0	Mud Flush
02/18/2013 14:27		Pump Spacer 1	1	10			220.0	10 ppg Clean Spacer
02/18/2013 14:44		Shutdown						Waited for rig to pooh
02/18/2013 15:02		Pump Lead Cement	1	19.3			352.0	12 ppg Surface Vericem
02/18/2013 15:15		Pump Tail Cement	1	24.3			570.0	13 ppg Surface Vericem
02/18/2013 15:44		Clean Lines						Pumped water to clear pump and lines
02/18/2013 15:48		End Job						Rig down safety meeting

## The Road to Excellence Starts with Safety

Sold To #: 303209	Ship To #: 2981560	Quote #:	Sales Order #: 900231056
Customer: K P KAUFFMAN CO, INC. EBIZ		Customer Rep: Ramos, Rick	
Well Name: Amen		Well #: #1	API/UWI #: 05-123-10773
Field: WILD CAT	City (SAP): JOHNSTOWN	County/Parish: Weld	State: Colorado
Lat: N 40.394 deg. OR N 40 deg. 23 min. 38.832 secs.		Long: W 104.943 deg. OR W -105 deg. 3 min. 26.568 secs.	
Contractor: Workover		Rig/Platform Name/Num: Workover	
Job Purpose: Cement via Annulus			
Well Type: Producing Well		Job Type: Cement via Annulus	
Sales Person: AARON, WESLEY		Srvc Supervisor: VIGIL, NICHOLAS	MBU ID Emp #: 443481

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MULLER, MICHEL B	0.0	529830	OTERI, VAUGHN Steeves	0.0	443828	PLIENESS, RYAN	0.0	490745
REED, FRED Marlon	0.0	504496	VIGIL, NICHOLAS Joseph	0.0	443481	WHEELER, JUSTIN W	0.0	196470

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	34 mile	11036295C	34 mile	11398490	34 mile	12010168	34 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	18 - Feb - 2013	04:00	MST
Job depth MD	6300. ft		Job Depth TVD		On Location	18 - Feb - 2013	08:20	MST
Water Depth			Wk Ht Above Floor		Job Started	18 - Feb - 2013	12:08	MST
Perforation Depth (MD)	From	To			Job Completed	18 - Feb - 2013	16:30	MST
					Departed Loc	18 - Feb - 2013	16:45	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
10" Open Hole Section				10.				320.	6300.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6			0	7354.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.			0	320.		
1 1/4" Tubing	Unknown		1.25	.824	2.4			0	640.		

# HALLIBURTON

## 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH III		24.00	bbl	8.4			1	
2	Viscous Pill		10.00	bbl	10.0	3.43	22.42	1	
3	SURFACE VARICEM	VARICEM (TM) CEMENT (452009)	50.0	sacks	12.0	2.17	12.31	1	12.31
	12.308 Gal	FRESH WATER							
4	SURFACE VARICEM	VARICEM (TM) CEMENT (452009)	80.0	sacks	13.0	1.71	8.82	1	8.82
	8.82 Gal	FRESH WATER							

### 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