

# HALLIBURTON

iCem<sup>®</sup> Service

## **BP AMERICA PROD CO - NAG - EBUS**

**For: MIKE**

Date: Thursday, June 11, 2015

## **BONIFACIO GALLEGOS A # 3**

BONIFACIO GALLEGOS

BP, BONIFACIO GALLEGOS A # 3

Job Date: Thursday, June 11, 2015

Sincerely,

**BRANDON WOOD**

## Legal Notice

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## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 358135		<b>Ship To #:</b> 3660589		<b>Quote #:</b>		<b>Sales Order #:</b> 0902486925				
<b>Customer:</b> BP AMERICA PROD CO-SORAC/NAG EBIZ				<b>Customer Rep:</b> MIKE						
<b>Well Name:</b> BONIFACIO GALLEGOS A			<b>Well #:</b> 3		<b>API/UWI #:</b> 05-067-09930-00					
<b>Field:</b> IGNACIO-BLANCO		<b>City (SAP):</b> IGNACIO		<b>County/Parish:</b> LA PLATA		<b>State:</b> COLORADO				
<b>Legal Description:</b> SW SE-2-33N-8W-1153FSL-2530FEL										
<b>Contractor:</b> AZTEC WELL SERVICING CO				<b>Rig/Platform Name/Num:</b> AZTEC 507						
<b>Job BOM:</b> 7523										
<b>Well Type:</b> COAL DE-GAS										
<b>Sales Person:</b> HALAMERICA\HX38199				<b>Srvc Supervisor:</b> Brandon Wood						
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>						
<b>Form Type</b>				<b>BHST</b>						
<b>Job depth MD</b>		3523ft		<b>Job Depth TVD</b>						
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>						
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>						
<b>Well Data</b>										
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
Casing		8.625	8.097	24			0	392		0
Casing		5.5	4.95	15.5			0	3523		0
Open Hole Section			7.875				392	3523	0	0
<b>Tools and Accessories</b>										
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	
Guide Shoe	5.5			3523		Top Plug	5.5		HES	
Float Shoe	5.5					Bottom Plug	5.5		HES	
Float Collar	5.5					SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5		HES	
Stage Tool	5.5					Centralizers	5.5		HES	
<b>Miscellaneous Materials</b>										
<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>		<b>Acid Type</b>		<b>Qty</b>
<b>Treatment Fld</b>		<b>Conc</b>		<b>Inhibitor</b>		<b>Conc</b>		<b>Sand Type</b>		<b>Size</b>
<b>Fluid Data</b>										
<b>Stage/Plug #: 1</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
1	Chemical Wash	Chemical Wash	20	bbl	8.35					
1000 gal/Mgal		FRESH WATER								

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	VARICEM (TM) CEMENT	195	sack	12.3	2.42		5	13.58
0.40 %		FE-2 (100001615)							
0.1250 lbm		POLY-E-FLAKE (101216940)							
13.58 Gal		FRESH WATER							
5 lbm		KOL-SEAL, BULK (100064233)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Lead Cement w/ Super CBL	VARICEM (TM) CEMENT	40	sack	12.3	2.42		5	13.61
5 lbm		KOL-SEAL, BULK (100064233)							
0.40 %		FE-2 (100001615)							
0.1250 lbm		POLY-E-FLAKE (101216940)							
13.61 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Tail Cement	VARICEM (TM) CEMENT	110	sack	13.5	1.86		5	9.39
0.1250 lbm		POLY-E-FLAKE (101216940)							
5 lbm		KOL-SEAL, BULK (100064233)							
9.39 Gal		FRESH WATER							
0.40 %		FE-2 (100001615)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Displacement	Displacement	82.8	bbl	8.33				
Cement Left In Pipe		Amount	ft	Reason				Shoe Joint	
Mix Water: pH ##		Mix Water: ## ppm			Mix Water Temperature: ## °F °C				
		Chloride:							
Cement Temperature: ## °F °C		Plug Displaced by: ## lb/gal kg/m <sup>3</sup> XXXX			Disp. Temperature: ## °F °C				
Plug Bumped? Yes/No		Bump Pressure: #### psi MPa			Floats Held? Yes/No				
Cement Returns: ## bbl m <sup>3</sup>		Returns Density: ## lb/gal kg/m <sup>3</sup>			Returns Temperature: ## °F °C				
Comment									

## Summary Report



Crew: \_\_\_\_\_

Job Start Date: 6/11/2015

Sales Order #: 0902486925

WO #: 0902486925

PO/AFE #: NA

Customer: BP AMERICA PROD CO-  
SORAC/NAG EBIZ  
UWI / API Number: 05-067-09930-00  
Well Name: BONIFACIO GALLEGOS A  
Well No: 3

Field: IGNACIO-BLANCO  
County/Parish: LA PLATA  
State: COLORADO  
Latitude: 37.129092  
Longitude: -107.686141  
Sect / Twn / Rng: 2/33/8

Job Type: CMT PRODUCTION  
CASING BOM  
Service Supervisor: Brandon Wood

Cust Rep Name: MIKE  
Cust Rep Phone #:

## Remarks:


The Information Stated Herein Is Correct	Customer Representative Signature 	Date 6-11-15
	Customer Representative Printed Name Mike Starves	

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## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

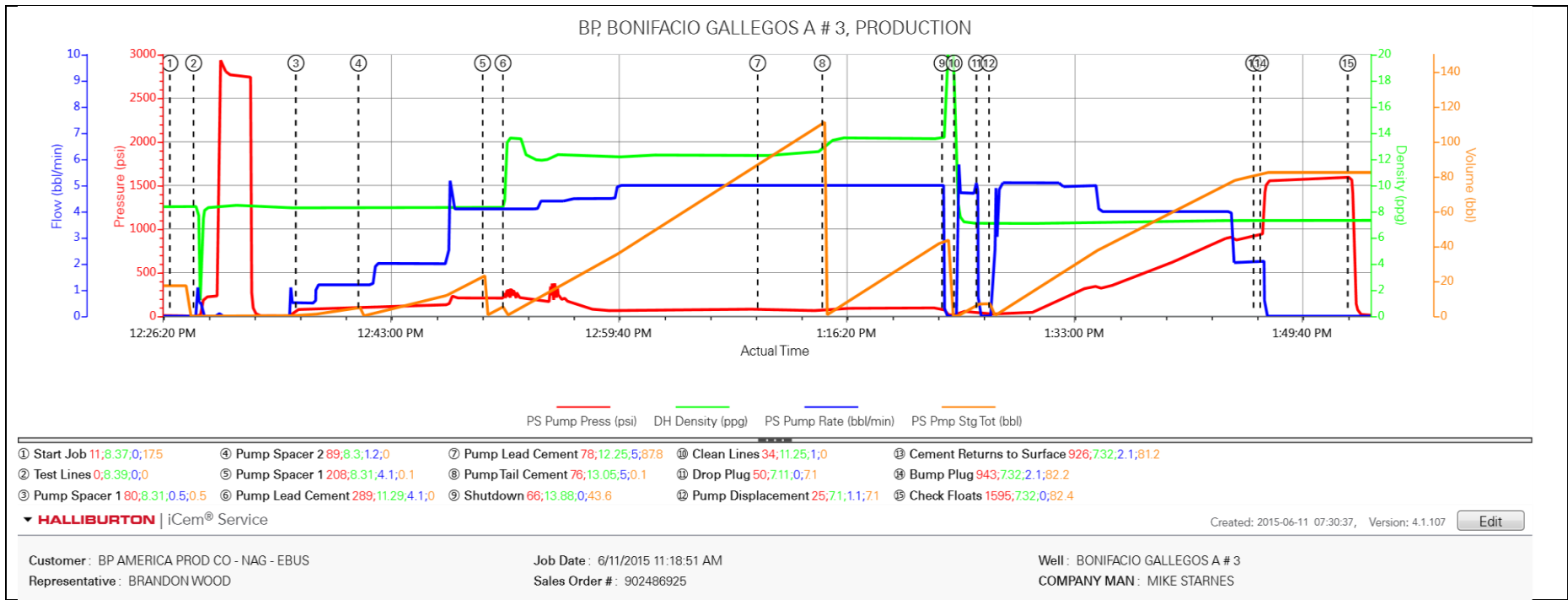
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	PS Pmp Stg Tot (bbl)	Comments
Event	1	Start Job	Start Job	6/11/2015	12:27:00	COM5	11.00	8.37	0.00	17.5	
Event	2	Test Lines	Test Lines	6/11/2015	12:28:44	COM5	0.00	8.39	0.00	0.0	PRESSURE TEST GOOD LOW TO 231 PSI, AND HIGH TO 2745 PSI
Event	3	Pump Spacer 1	Pump Spacer 1	6/11/2015	12:36:13	USER	80.00	8.31	0.50	0.5	PUMPED 5 BBL H2O SPACER
Event	4	Pump Spacer 2	Pump Spacer 2	6/11/2015	12:40:47	COM5	89.00	8.30	1.20	0.0	PUMPED 20 BBLS CHEMWASH
Event	5	Pump Spacer 1	Pump Spacer 1	6/11/2015	12:49:52	COM5	211.00	8.31	4.10	23.3	PUMPED 5 BBLS H2O
Event	6	Pump Lead Cement	Pump Lead Cement	6/11/2015	12:51:22	USER	215.00	10.75	4.10	6.1	PUMPED 84 BBLS 1ST LEAD CEMENT @ 12.3 #, 195 SKS, 2.42 YLD, 13.58 GAL/SK
Event	7	Pump Lead Cement	Pump Lead Cement	6/11/2015	13:10:00	COM5	78.00	12.25	5.00	87.8	PUMPED 17.2 BBLS 2ND LEAD CEMENT @ 12.3 #, 40 SKS, 2.42 YLD, 13.61 GAL/SK
Event	8	Pump Tail Cement	Pump Tail Cement	6/11/2015	13:14:43	COM5	77.00	13.04	5.00	0.0	PUMPED 36.4 BBLS TAIL CEMENT @ 13.5 #, 110 SKS, 1.86 YLD, 9.39 GAL/SK
Event	9	Shutdown	Shutdown	6/11/2015	13:23:29	USER	66.00	13.88	0.00	43.6	SHUTDOWN TO CLEAN LINES AND DROP TOP PLUG
Event	10	Clean Lines	Clean Lines	6/11/2015	13:24:21	USER	34.00	11.25	1.00	0.0	PUMPED 7 BBLS TO WASH PUMPS AND LINES BEFORE DISPLACEMENT
Event	11	Drop Plug	Drop Plug	6/11/2015	13:26:00	USER	51.00	7.11	0.00	7.1	DROP TOP PLUG, TATTLE TAIL INDICATED PLUG LEFT CMT HEAD
Event	12	Pump Displacement	Pump Displacement	6/11/2015	13:26:54	COM5	25.00	7.10	1.10	7.1	CALCULATED 82.8 BBLS DISPLACEMENT, ACTUALLY

											PUMPED 82.4 BBLS ON COUNTER TO LAND PLUG
Event	13	Cement Returns to Surface	Cement Returns to Surface	6/11/2015	13:46:16	USER	926.00	7.32	2.10	81.2	CALCULATED 26.5 BBLS CEMENT RETURNS TO SURFACE, ACTUALLY CIRCULATED 1 BBL BACK.
Event	14	Bump Plug	Bump Plug	6/11/2015	13:46:45	USER	943.00	7.32	2.10	82.2	CALCULATED 756 PSI DIFFERENTIAL WHEN PLUG LANDS, PLUG BUMPED @ 943 PSI
Event	15	Check Floats	Check Floats	6/11/2015	13:53:09	USER	1595.00	7.32	0.00	82.4	PRESSURED UP TO 1595 PSI , RELEASED PRESSURE FLOATS HELD, FLOWED BACK .5 BBLS



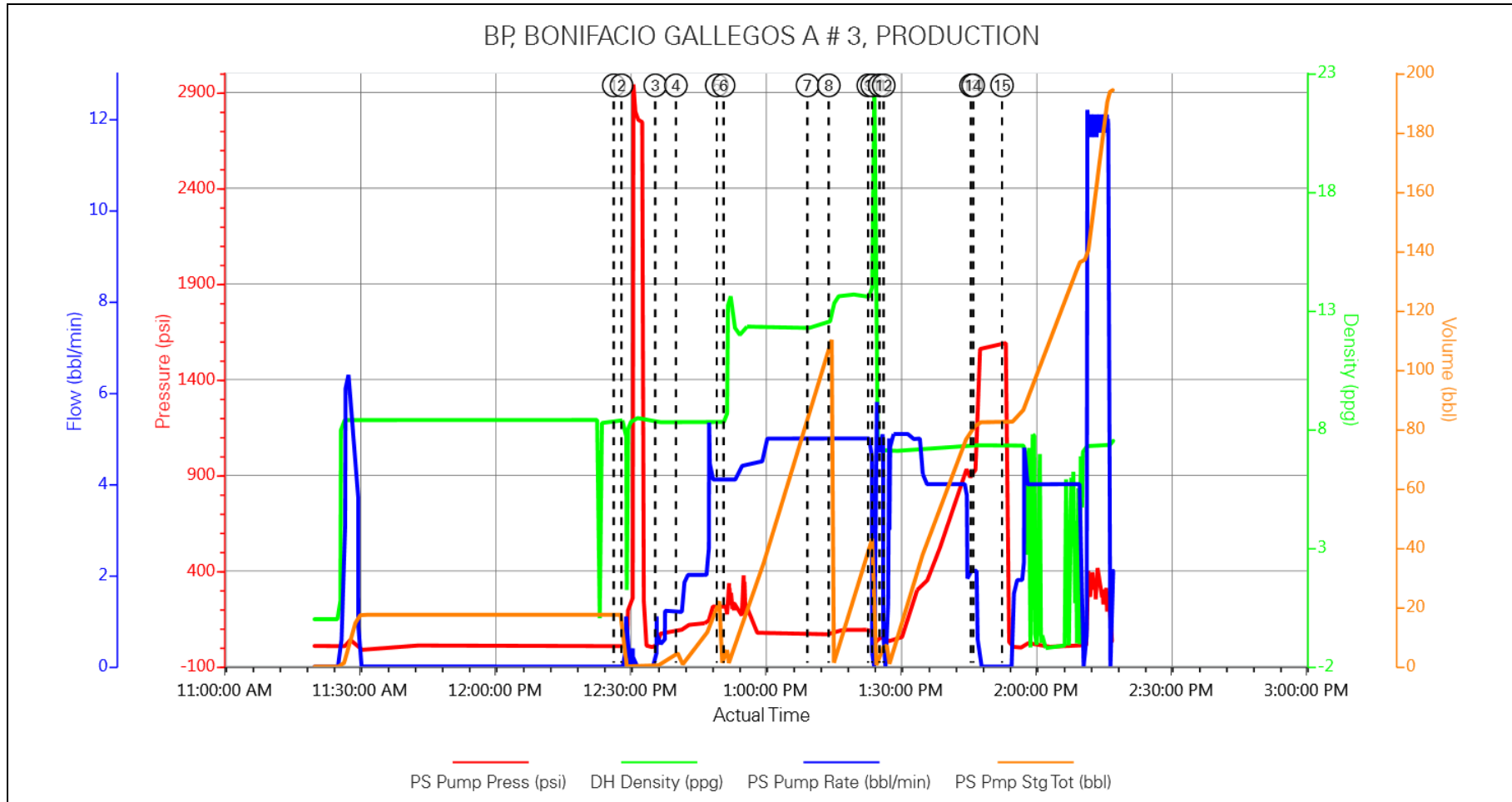
2.0 Attachments

2.1 BP, BONIFACIO GALLEGOS A # 3, PRODUCTION.png



## 3.0 Custom Graphs

### 3.1 Custom Graph



## 4.0 Appendix

### 4.1 3D Wellbore Schematic

