

HALLIBURTON

iCem[®] Service

KINDER MORGAN INC - EBUS

For: JERAMIE DAVIS

Date: Friday, August 29, 2014

GOODMAN POINT # 27

Production Liner

GOODMAN POINT #27

KINDER MORGAN

Sincerely,

LEMONT JOJOLA

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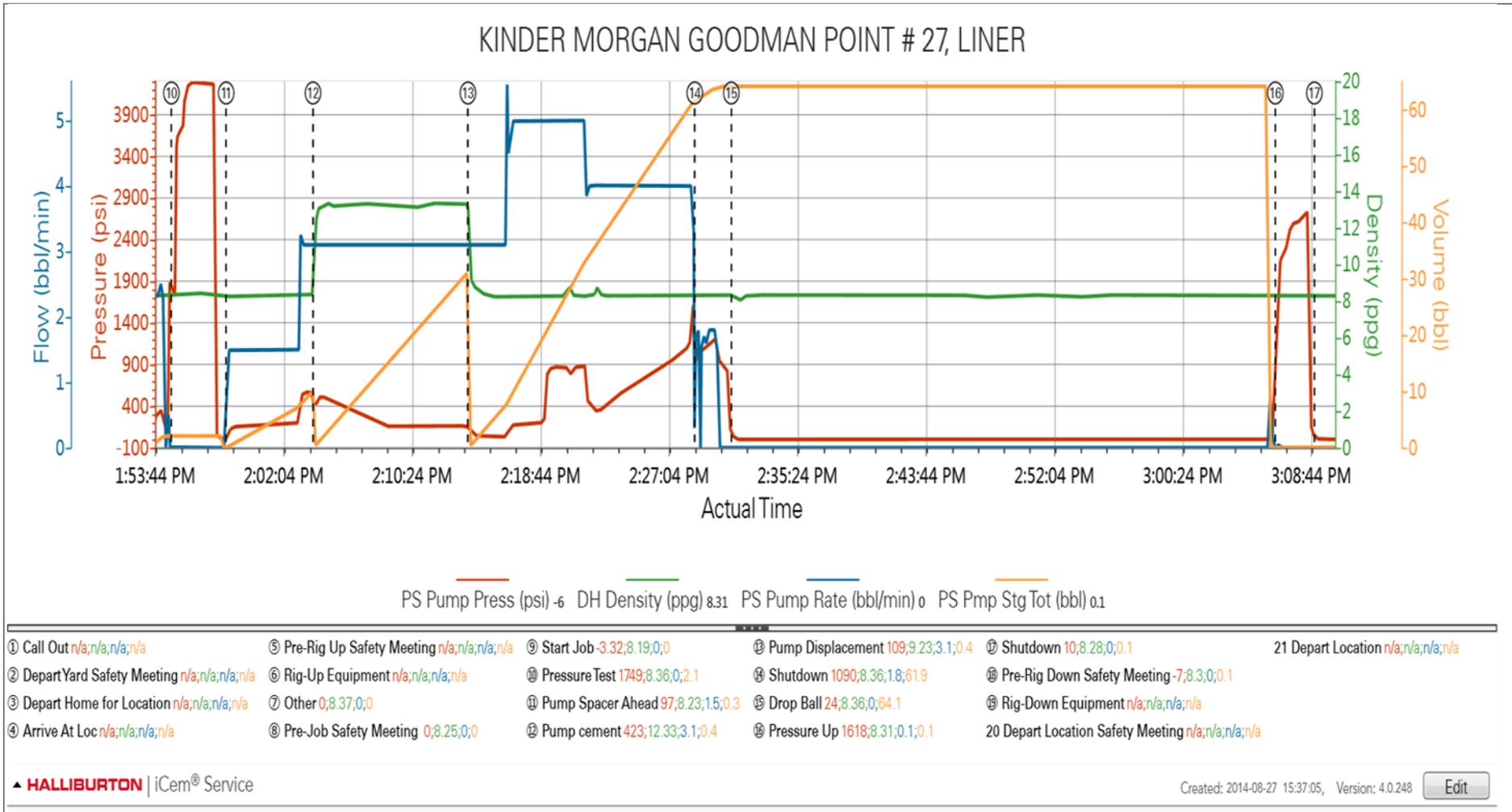
3.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Pass-Side Pump Rate (bbl/min)	PS Pmp Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	8/27/2014	16:00:00	USER					
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	8/27/2014	17:45:00	USER					INVOLVING CEMENT CREW
Event	3	Depart Home for Location	Depart Home for Location	8/27/2014	18:00:00	USER					1 - PICKUP 11528220, 1 - RED TIGER 11528220, 1 - BULK TRUCK 10001398
Event	4	Arrive At Loc	Arrive At Loc	8/27/2014	21:00:00	USER					
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	8/27/2014	21:30:00	USER					INVOLVING CEMENT CREW
Event	6	Rig-Up Equipment	Rig-Up Equipment	8/27/2014	21:45:00	USER					
Event	7	Other	Other	8/29/2014	13:30:00	USER	0.00	8.36	0.00	0.0	DELIVERED 230 SKS PER COMPANY MAN HES IS TO PUMP 110 SKS AND DISPLACE 64 BBLS
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/29/2014	13:45:57	USER	0.00	8.26	0.00	0.0	INVOLVING EVERYONE ON LOCATION
Event	9	Start Job	Start Job	8/29/2014	13:53:05	COM5					
Event	10	Pressure Test	Pressure Test	8/29/2014	13:54:55	USER	1754.00	8.30	0.00	2.1	PRESSURE TEST GOOD TO 4200 PSI
Event	11	Pump Spacer Ahead	Pump Spacer Ahead	8/29/2014	13:58:28	USER	97.00	8.23	1.50	0.3	PUMPED 10 BBLS H2O
Event	12	Pump Cement	Pump cement	8/29/2014	14:04:06	USER	423.00	12.33	3.10	0.4	110 SKS 1.33 FT3/SK 5.55 GAL/SK = 26.1 BBLS @ 13.5# 14.5 BBLS H2O REQ
Event	13	Pump Displacement	Pump Displacement	8/29/2014	14:14:09	USER	116.00	9.38	3.10	0.4	CALCULATED 65 BBLS H2O TO DISPLACE, ACTUALLY PUMPED 64 BBLS
Event	14	Shutdown	Shutdown	8/29/2014	14:28:52	USER	1082.00	8.36	1.80	61.9	SHUTDOWN
Event	15	Drop Ball	Drop Ball	8/29/2014	14:31:15	USER	27.00	8.36	0.00	64.1	DROP BALL WAIT 30 MINUTES
Event	16	Pressure Up	Pressure Up	8/29/2014	15:06:32	USER	1618.00	8.31	0.10	0.1	PRESSURE UP TO SEAT

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Pass-Side Pump Rate (bbl/min)	PS Pmp Stg Tot (bbl)	Comments
											BALL, BALL ON SEAT @ 2700 PSI
Event	17	Shutdown	Shutdown	8/29/2014	15:09:04	USER	10.00	8.28	0.00	0.1	SHUTDOWN END JOB
Event	18	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/29/2014	15:20:00	USER	-7.00	8.30	0.00	0.1	INVOLVING CEMENT CREW
Event	19	Rig-Down Equipment	Rig-Down Equipment	8/29/2014	15:30:00	USER					
Event	20	Depart Location Safety Meeting	Depart Location Safety Meeting	8/29/2014	16:15:00	USER					INVOLVING CEMENT CREW
Event	21	Depart Location	Depart Location	8/29/2014	16:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, LEMONT JOJOLA AND CREW

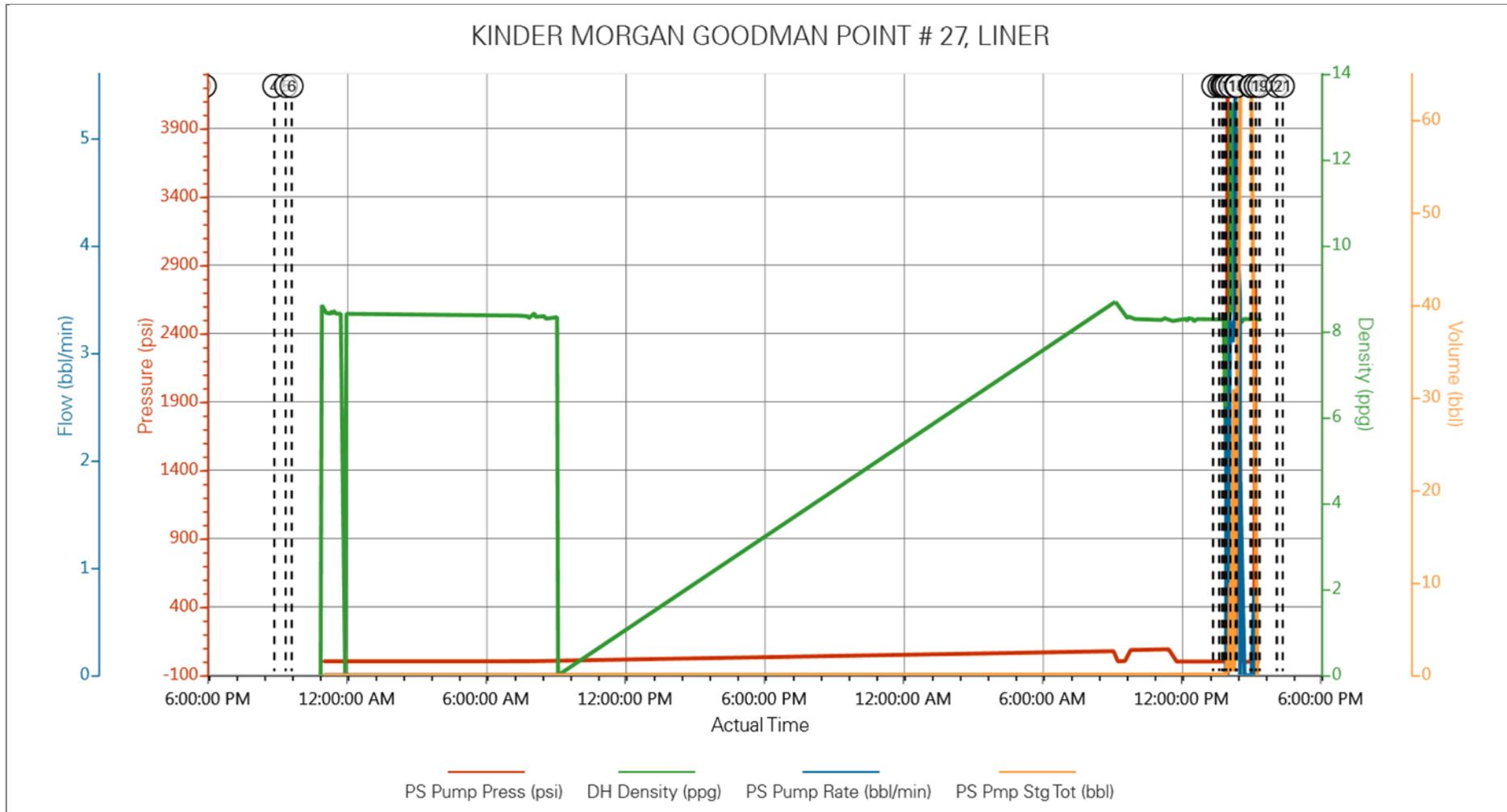
4.0 Attachments

4.1 KINDER MORGAN GOODMAN POINT 27 LINER-Custom Results.png



5.0 Custom Graphs

5.1 Custom Graph



The Road to Excellence Starts with Safety

Sold To #: 320986	Ship To #: 3533944	Quote #:	Sales Order #: 0901628883
Customer: KINDER MORGAN INC - EBUS		Customer Rep:	
Well Name: GOODMAN POINT (GP)		Well #: 27	API/UWI #: 05-083-06717-00
Field: MCELMO	City (SAP): CORTEZ	County/Parish: MONTEZUMA	State: COLORADO
Legal Description: SW SE-18-36N-17W-935FSL-2105FEL			
Contractor:		Rig/Platform Name/Num: Nabors M-13	
Job BOM: 7525			
Well Type: CO2 WELL			
Sales Person: HALAMERICA\HX23209		Srvc Supervisor: Lemont Jojola	
Job			

Formation Name	
Formation Depth (MD)	Top <input type="text"/> Bottom <input type="text"/>
Form Type	BHST
Job depth MD	7902ft
Water Depth	Wk Ht Above Floor <input type="text"/>
Perforation Depth (MD)	From <input type="text"/> To <input type="text"/>

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Drill Pipe		2.875	2.151	10.4			0	7160		0
Casing		7	6.184	29			0	7360		0
Casing		4.5	4	11.6			7160	8760	0	0
Open Hole Section			6.5				7360	7902		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5			8760	Top Plug	4.5		HES
Float Shoe	4.5				Bottom Plug	4.5		HES
Float Collar	4.5				SSR plug set	4.5		HES
Insert Float	4.5				Plug Container	4.5		HES
Stage Tool	4.5				Centralizers	4.5		HES

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 ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Chemical Wash	Chemical Wash	0	bbl	8.4				
	0.50 lbm/bbl	POLY-E-FLAKE (101216940)							
	1000 gal/Mgal	FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	Primary Cement	HALCEM (TM) SYSTEM	230	sack	13.5	1.33		5	5.55
5.37 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Displacement	Displacement	65	bbl	8.33				
Cement Left In Pipe		Amount	ft	Reason			Shoe Joint		
Comment									

HALLIBURTON

Rockies, Farmington

Lab Results- Primary

Job Information

Request/Slurry	2166111/1	Rig Name		Date	26/AUG/2014
Submitted By	Dale Medford	Job Type	Lost Circulation Plug	Bulk Plant	
Customer	Kinder Morgan	Location		Well	Goodman Point #27

Well Information

Casing/Liner Size		Depth MD		BHST	81°C / 178°F
Hole Size	6 in / 152.4 mm	Depth TVD	2477 m / 8125 ft	BHCT	56°C / 133°F
Pressure	344 bar / 4990 psi				

Drilling Fluid Information

Mud Supplier Name	AMC	Mud Trade Name		Density	
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Cement Information - Primary Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	<u>Cement Properties</u>		
50	%	> GCC Type V	Bulk Blend	26.08.14	4511104864	Slurry Density	13.503	lbm/gal
50	%	> San Juan	Bulk Blend	26.08.14	4511104128	Slurry Yield	1.3328	ft3/sack
100	% BWOC	Cement Blend				Water Requirement	5.5358	gal/sack
5.54	gal/sack	Fresh Water	Lab	17.08.11	N/A	Total Mix Fluid	5.54	gal/sack
1	% BWOC	Bentonite Wyoming - PB	Bulk Blend	26.08.14	4511169832			
0.3	% BWOC	HALAD-344 (PB)	Bulk Blend	26.08.14	WSP-HAL34-B413304A			
0.125	lb/sk	Pol-E-Flake	Bulk Blend	26.08.14				
5	lb/sk	KoI-Seal	Bulk Blend	26.08.14	4511168097	Water Source	Fresh Water	
0.3	% BWOC	HR-5 (PB)	Bulk Blend	26.08.14	LIG-HR5-200	Water Chloride		
0.1	% BWOC	CFR-3 (PB)	Bulk Blend	26.08.14	MGB-CFR03-0227201409			

Slurry Comments

Operation Test Results Request ID 2166111/1

Mixability (0 - 5) - 0 is not mixable

26/Aug/2014

Mixability rating (0 - 5) Avg rpm mixing under load (~12,000)
5 12000

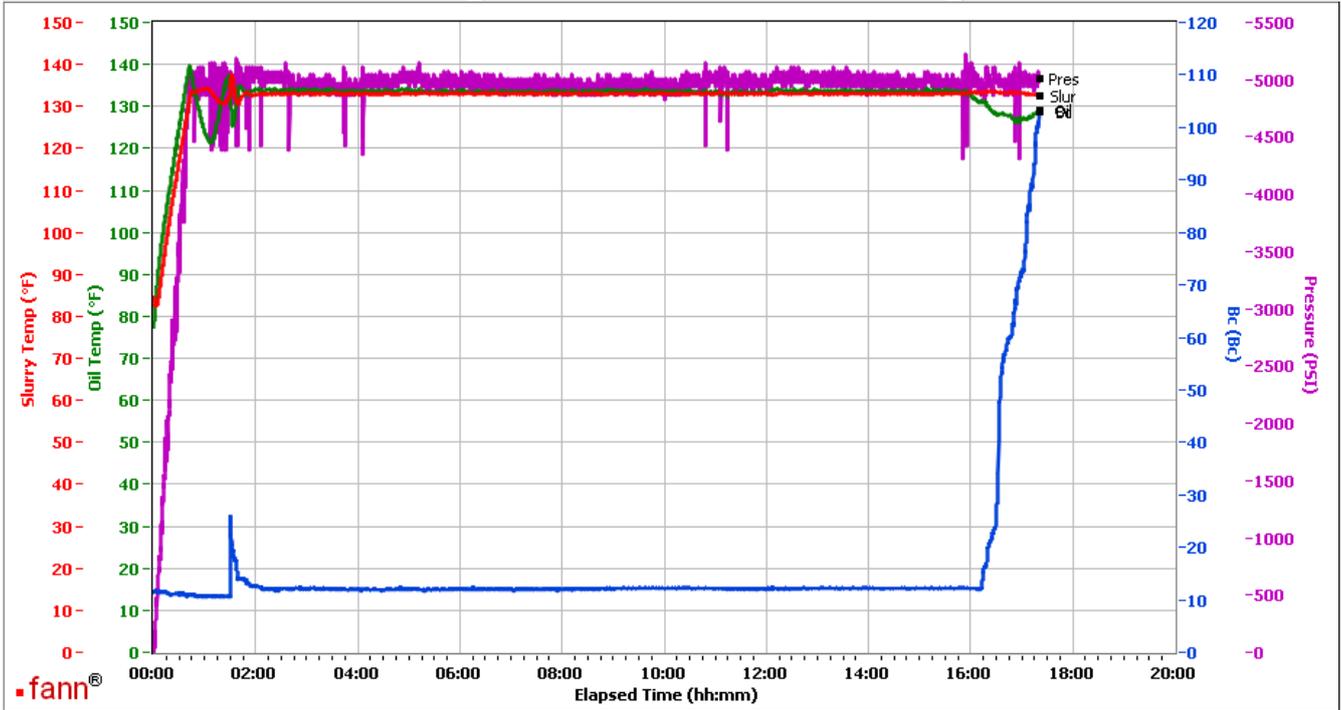
Thickening Time - ON-OFF-ON

27/Aug/2014

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)
133	4990	42	16:31	13:35	16:55	17:18	11	45	45

Farmington

Fields	Values	Fields	Values	Events	Results
Project Name	FM2166111-1 Kinder Morgan GP #27 Plug Bulk	Job Type		40.00 Bc	16h:32m
Test ID	FM2166111-1	Cement Type		50.00 Bc	16h:35m
Request ID		Cement Weight	Light Weight	70.00 Bc	16h:55m
Tested by	JB	Test Date	08/26/14	100.00 Bc	17h:18m
Customer	Kinder Morgan	Test Time	10:02 AM	30.00 Bc	16h:31m
Well No	Goodman Point #27	Temp. Units	degF	00h:30m	11.53
Rig		Pressure Units	PSI	01h:00m	10.53
Casing/Liner Size		SW Version	2.0.2.206	01h:30m	10.52



Data File C:\Documents and Settings\M290\Desktop\TT Graphs\FM2166111-1 Kinder Morgan GP #27 Plug Bulk .tdms
 Comments 13.5ppg

10-107-39-20

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UCA Comp. Strength

30/Aug/2014

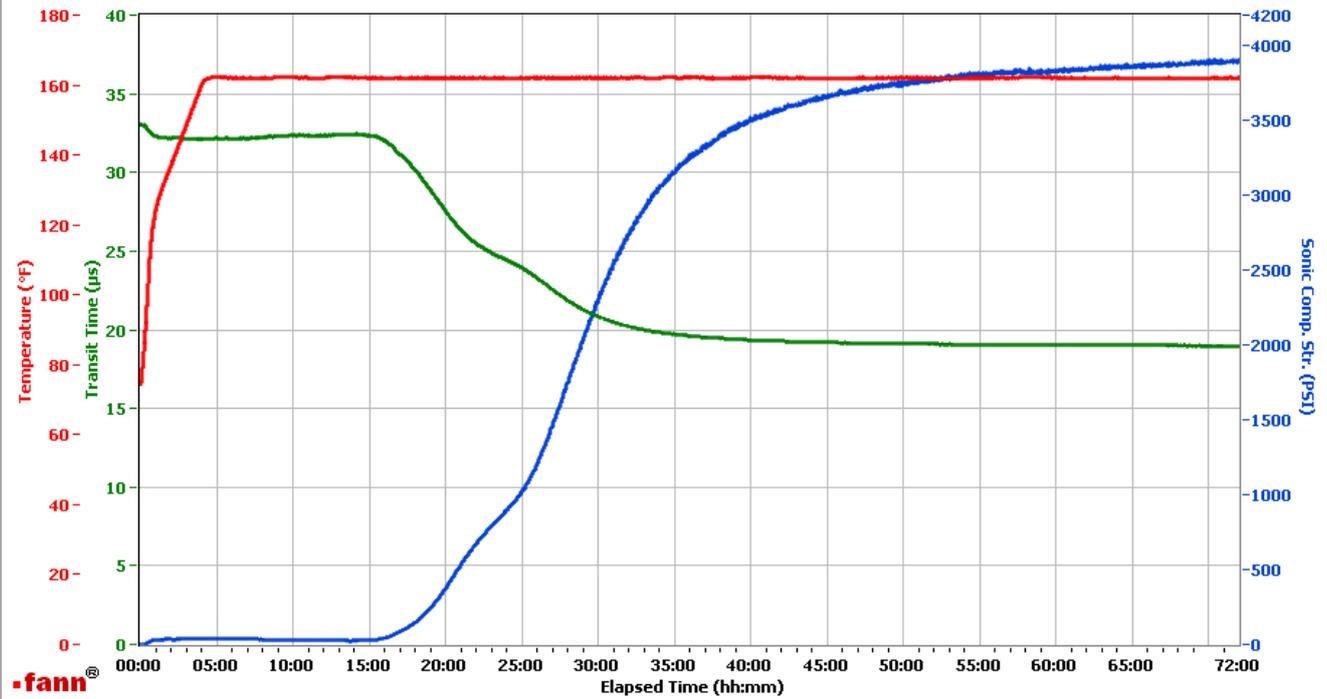
End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
162	3000	16:16	20:49	29	891	3712	3895	72

Farmington

Fields	Values
Project Name	FM2166111-1 UCA Kinder Morgan Goodman
Test ID	FM2166111-1
Request ID	
Tested by	JB
Customer	Kinder Morgan
Well No	Goodman Point #27
Rig	
Casing/Liner Size	

Fields	Values
Job Type	
Cement Type	
Cement Weight	Light Weight
Test Date	8/26/2014
Test Time	9:06 AM
Temp. Units	degF
Pressure Units	PSI

Events	Results
50.00 PSI	16h:16m
100.00 PSI	17h:18m
500.00 PSI	20h:49m
1000.00 PSI	24h:54m
72h:00m	3894.68
12h:00m	28.68
24h:00m	891.04
48h:00m	3711.80



Data File C:\Documents and Settings\UCA\My Documents\FM2166111-1 UCA Kinder Morgan Goodman Point #27 Plug Bulk.tdms
 Comments 13.5ppg

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