

HALLIBURTON

iCem[®] Service

KINDER MORGAN INC

For: CURTIS SLAUGH

Date: Saturday, July 26, 2014

GOODMAN POINT 27

KINDER MORGAN SURFACE

Sincerely,
CHRIS KUKUS

The Road to Excellence Starts with Safety

Sold To #: 320986	Ship To #: 3533944	Quote #: 0021902095	Sales Order #: 0901526031
Customer: KINDER MORGAN INC - EBUS		Customer Rep: CURTIS SLAUGH	
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: 7521			
Well Type: CO2 WELL			
Sales Person: HALAMERICA\HAM2360		Srv Supervisor: Christopher Kukus	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	2920ft		Job Depth TVD
Water Depth			Wk Ht Above Floor
Perforation Depth (MD)	From		To

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
Casing	0	9.625	8.921	36	8 RD (LT&C)	J-55	0	2920		
Open Hole Section			12.25				0	2930		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		2920		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625	1		2874.8		SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Water Spacer	Water Spacer	10	bbl	8.33			2.5		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Chemical Wash	Chemical Wash	20	bbl	8.4			4		
1000 gal/Mgal		FRESH WATER								

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Water Spacer	Water Spacer	10	bbl	8.33			4	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Lead Cement	VERSACEM (TM) SYSTEM	800	sack	12.4	1.92		5	9.91
	0.1250 lbm	POLY-E-FLAKE (101216940)							
	23.80 lbm	POZMIX A FLYASH (100003690)							
	61.10 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	6 %	BENTONITE, BULK (100003682)							
	0.10 %	HALAD(R)-9, 50 LB (100001617)							
	5 lbm	KOL-SEAL, BULK (100064233)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Tail Cement	LIFECEM (TM) CEMENT	300	sack	15.8	1.16		5	5.08
	0.1250 lbm	POLY-E-FLAKE (101216940)							
	0.10 %	HALAD(R)-9, 50 LB (100001617)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
6	Displacement	Displacement	222.2	bbl	8.33			5	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
7	Top Out	VERSACEM (TM) SYSTEM	50	sack	15.8	1.15		1	5.02
Cement Left In Pipe Amount 45 ft Reason Shoe Joint									
Comment									

1.1 Job Event Log

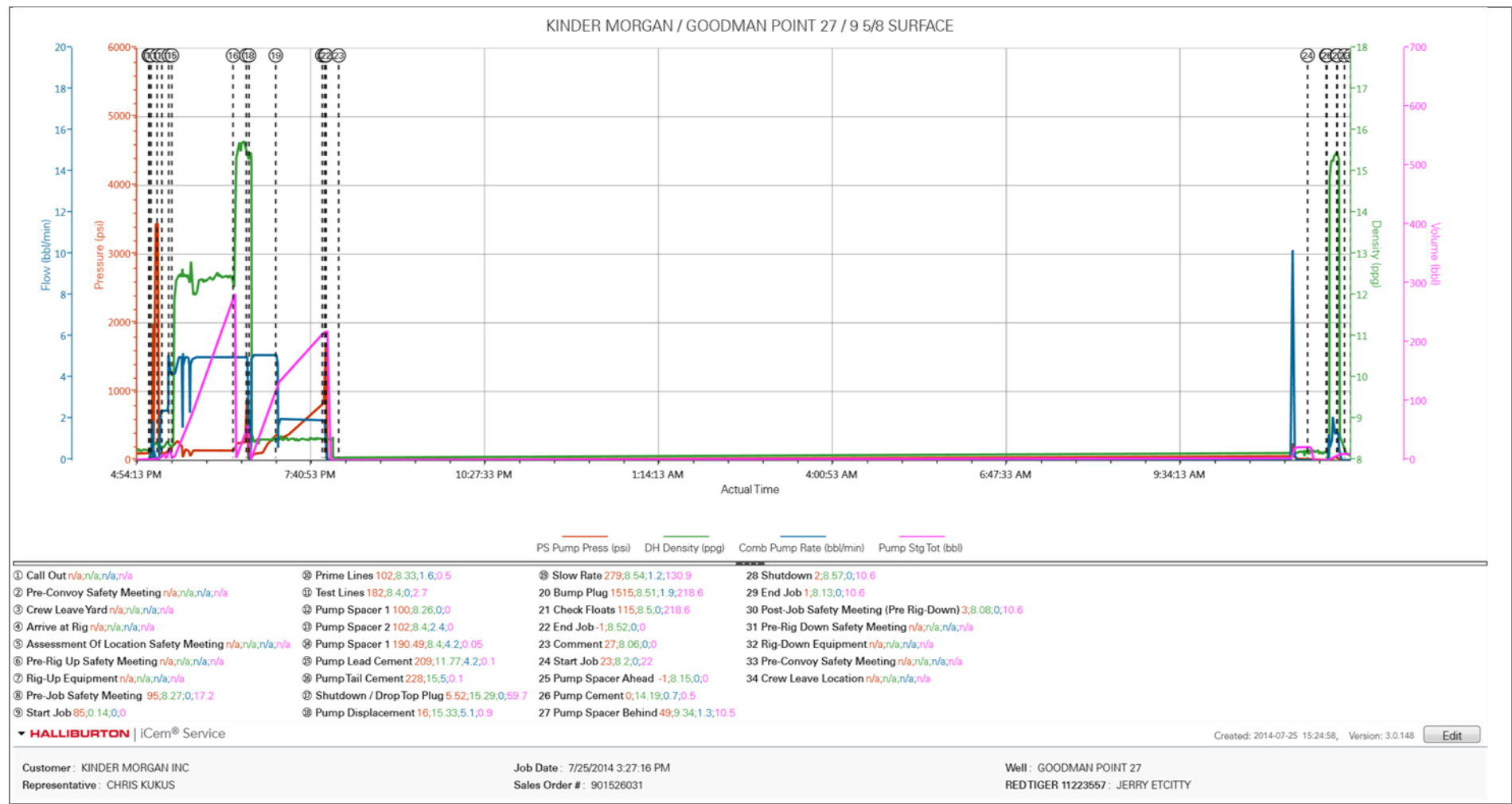
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	Call Out	7/25/2014	06:00:16	USER					HES CREW CALLED OUT AT 06:00
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/25/2014	08:20:02	USER					ALL HES EMPLOYEES
Event	3	Crew Leave Yard	Crew Leave Yard	7/25/2014	08:30:12	USER					HES CREW LEFT YARD AT 08:30
Event	4	Arrive at Rig	Arrive at Rig	7/25/2014	12:00:18	USER					HES CREW ARRIVED 2 HOURS LATE
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/25/2014	12:30:23	USER					ALL HES EMPLOYEES RIG WAS STILL RUNNING CASING
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/25/2014	14:20:34	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	Rig-Up Equipment	7/25/2014	14:30:52	USER					RIG UP IRON TO RIG FLOOR, SUCTION LINES TO FRESH WATER, BULK LINES TO BULK TRUCKS
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/25/2014	16:31:02	USER					ALL PERSONEL ON LOCATION
Event	9	Start Job	Start Job	7/25/2014	17:08:01	COM5					TD: 2930 TP: 2920 CSG: 9 5/8 36# J-55 SJ: 45.13 OH: 12 1/4 MUD: 8.9 VIS: 40 RIG CIRCULATED ON WELL FOR 1 HOUR BEFORE CEMENT JOB
Event	10	Prime Pumps	Prime Lines	7/25/2014	17:08:32	COM5	101.00	8.33	1.60	2.0	PRIME LINES WITH FRESH WATER
Event	11	Test Lines	Test Lines	7/25/2014	17:10:14	COM5	3400.0	8.41	0.00	2.0	PRESSURE TEST OK AT 3400 PSI
Event	12	Pump Spacer 1	Pump Spacer 1	7/25/2014	17:16:01	COM5	100.00	8.29	2.5	10.0	PUMP FRESH WATER SPACER
Event	13	Pump Spacer 2	Pump Spacer 2	7/25/2014	17:20:36	COM5	101.00	8.40	4.0	20.0	PUMP CHEM WASH SPACER
Event	14	Pump Spacer 1	Pump Spacer 1	7/25/2014	17:27:06	COM5	190.00	8.40	4.0	10.0	PUMP FRESH WATER

											SPACER
Event	15	Pump Lead Cement	Pump Lead Cement	7/25/2014	17:30:05	COM5	209.00	12.4	5.0	274.0	VERSACEM 800 SKS 12.4 PPG 1.92 YIELD 9.91 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN AND LEFT ON LOCATION
Event	16	Pump Tail Cement	Pump Tail Cement	7/25/2014	18:28:48	COM5	225.00	15.8	5.00	62.0	LIFECEM 300 SKS 15.8 PPG 1.16 YIELD 5.08 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN AND LEFT ON LOCATION
Event	17	Drop Top Plug	Shutdown / Drop Top Plug	7/25/2014	18:41:29	COM5	6.00	15.29	0.00	62.0	HES CREW SHUTDOWN END OF CEMENT READY TANKS FOR DISPLACEMENT / PLUG AWAY WITH NO ISSUES
Event	18	Pump Displacement	Pump Displacement	7/25/2014	18:44:03	COM5	16.00	8.45	5.10	222.2	PUMP FRESH WATER DISPLACEMENT
Event	19	Slow Rate	Slow Rate	7/25/2014	19:09:44	USER	279.00	8.54	2.0	120.0	HES SLOW RATE WHEN CEMENT CAME TO SURFACE TO TRY AND KEEP CEMENT FROM FALLING
Event	20	Bump Plug	Bump Plug	7/25/2014	19:54:21	USER	838.0	8.51	2.0	222.2	PLUG BUMP AT 838 PSI AND WAS TOOK TO 1690 PSI
Event	21	Check Floats	Check Floats	7/25/2014	19:56:39	USER	1690.0	8.50	0.00	222.2	FLOATS HELD WITH 1 BBL BACK
Event	22	End Job	End Job	7/25/2014	19:58:00	COM5					JOB WENT WELL WITH NO ISSUES WELL HAD GOOD CIRCULATION THROUGH OUT THE CEMENT JOB HAD 142 BBLS OF CEMENT TO SURFACE NO SUGAR WAS USED
Event	23	Comment	Comment	7/25/2014	20:10:03	USER					HES CREW WAITED ON

											LOCATION FOR RIG TO RIG DOWN AND HES TO TOP OUT WELL
Event	24	Start Job	Start Job	7/26/2014	11:38:47	COM5					START TOP OUT RIG TAG CEMENT AT 76FT DOWN
Event	25	Pump Spacer Ahead	Pump Spacer Ahead	7/26/2014	11:56:37	USER	-1.00	8.14	1.0	.5	FRESH WATER AHEAD TO FILL LINES
Event	26	Pump Cement	Pump Cement	7/26/2014	11:57:23	COM5	45.5	14.19	1.0	10.0	VERSACEM 50 SKS 15.8 PPG 1.15 YIELD 5.02 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN AND LEFT ON LOCATION CALCIUM CHLORIDE WAS MIX IN WHILE PUMPING
Event	27	Pump Spacer Behind	Pump Spacer Behind	7/26/2014	12:06:49	USER	49.00	9.35	1.0	1.0	FRESH WATER BEHIND TO CLEAR LINES
Event	28	Shutdown	Shutdown	7/26/2014	12:07:19	USER	2.00	8.55	0.00	1.0	SHUTDOWN
Event	29	End Job	End Job	7/26/2014	12:14:11	USER					TOP OUT JOB WENT WELL NO ISSUES GOT 3 BBLS OF CEMENT TO SURFACE 2 BAGS OF CALCIUM CHLORIDE WERE USED WITH 2 BAGS OF SUGAR
Event	30	Post-Job Safety Meeting (Pre Rig- Down)	Post-Job Safety Meeting (Pre Rig-Down)	7/26/2014	12:20:08	USER					ALL HES EMPOLYEEES
Event	31	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/26/2014	12:25:19	USER					ALL HES EMPLOYEES
Event	32	Rig-Down Equipment	Rig-Down Equipment	7/26/2014	12:30:34	USER					RIG DOWN IRON AND RACK, SUCTION HOSES, BULK LINES WASH UP PUMP
Event	33	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/26/2014	13:20:56	USER					ALL HES EMPLOYEES
Event	34	Crew Leave Location	Crew Leave Location	7/26/2014	13:30:10	USER					THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

2.0 Attachments

2.1 KINDER MORGAN SURFACE -Custom Results.png



HALLIBURTON

Water Analysis Report

Company: KINDER MORGAN

Submitted by: CHRIS KUKUS

Attention: JUSTIN KIDDOO

Lease GOODMAN POINT

Well # 27

Date: 7/25/2014

Date Rec.: 7/25/2014

S.O.# 901526031

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		230 Mg / L

Respectfully: CHRIS KUKUS

Title: CEMENTING SUPERVISOR

Location: FARMINGTON, NM

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or i

HALLIBURTON

Rockies, Farmington

Lab Results- Lead**Job Information**

Request/Slurry	2154952/1	Rig Name		Date	21/JUL/2014
Submitted By	Eutimia Valdez	Job Type	Surface Casing	Bulk Plant	
Customer	Kinder Morgan	Location		Well	Goodman Point #27

Well Information

Casing/Liner Size	9.625 in / 244.475 mm	Depth MD	914 m / 3000 ft	BHST	47°C / 116°F
Hole Size	12.25 in / 311.15 mm	Depth TVD	914 m / 3000 ft	BHCT	35°C / 95°F
Pressure	121 bar / 1750 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	
--------------------------	--------	-----------------------	------------	----------------	--

Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties	
65	%	> GCC Premium G				Slurry Density	12.401 lbm/gal
35	%	> San Juan				Slurry Yield	1.9239 ft3/sack
100	% BWOC	Cement Blend				Water Requirement	9.9092 gal/sack
9.91	gal/sack	Fresh Water				Total Mix Fluid	9.91 gal/sack
6	% BWOC	Bentonite Wyoming - PB					
0.125	lb/sk	Pol-E-Flake					
5	lb/sk	Kol-Seal					
0.1	% BWOC	HALAD-9 (PB)					
						Water Source	Fresh Water
						Water Chloride	N/A

Slurry Comments**Operation Test Results Request ID 2154952/1****Mixability (0 - 5) - 0 is not mixable****21/Jul/2014**

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

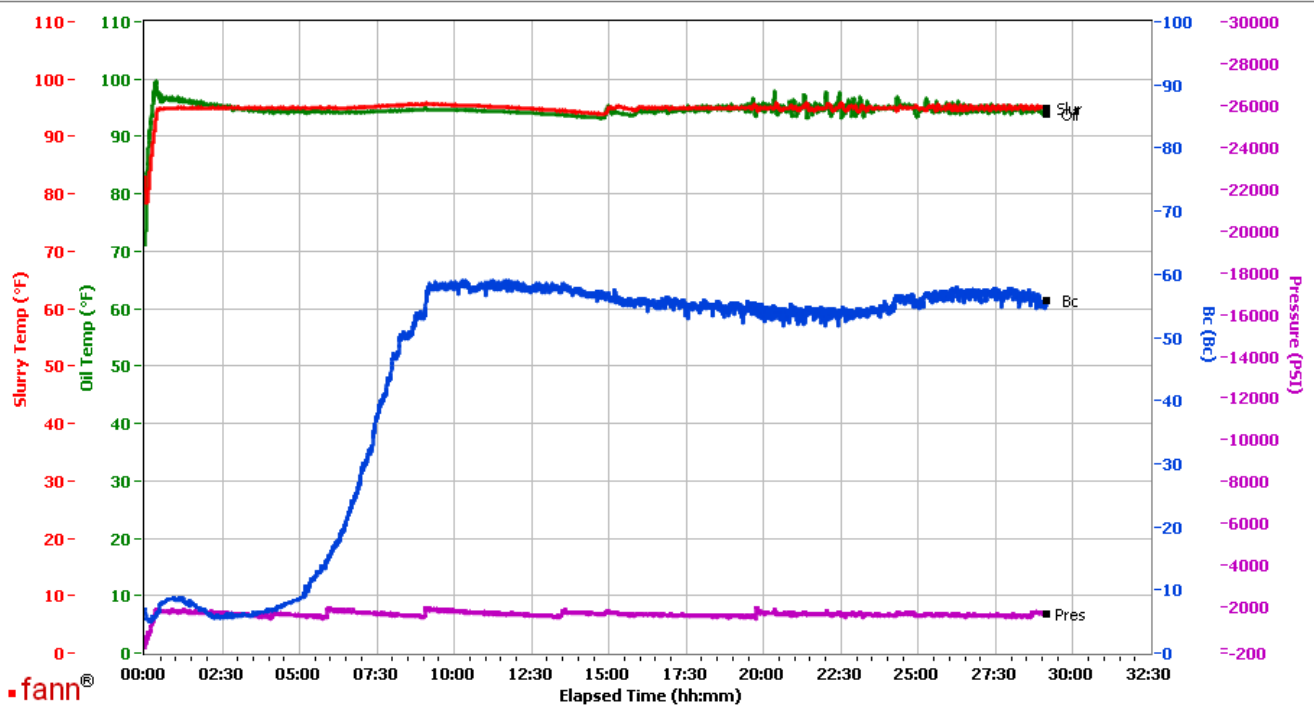
This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time**22/Jul/2014**

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	Termination Time	Termination BC
95	1750	21	7	7:04	7:37	8:13	28:54	56

Farmington

Fields	Values	Fields	Values	Events	Results
Project Name	FM2154952-1 KM Goodman Point #27 12.4 ppg	Job Type		40.00 Bc	07h:37m
Test ID	2154952-1	Cement Type	G	50.00 Bc	08h:13m
Request ID		Cement Weight	Standard	70.00 Bc	NaN
Tested by	MJ	Test Date	07/21/14	100.00 Bc	NaN
Customer	Kinder Morgan	Test Time	06:27 PM	30.00 Bc	07h:04m
Well No	Goodman Point #27	Temp. Units	degF	00h:30m	7.52
Rig		Pressure Units	PSI	01h:00m	8.52
Casing/Liner Size		SW Version	2.0.2.206	01h:30m	7.75



Data File C:\Documents and Settings\M290\Desktop\TT graphs\FM2154952-1 KM Goodman Point #27 12.4 ppg.tdms

Comments 12.4 ppg

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

HALLIBURTON

Rockies, Farmington

Lab Results- Tail**Job Information**

Request/Slurry	2155700/1	Rig Name		Date	23/JUL/2014
Submitted By	Dale Medford	Job Type	Surface Casing	Bulk Plant	
Customer	Kinder Morgan	Location		Well	Goodman Point #27

Well Information

Casing/Liner Size	9.625 in / 244.475 mm	Depth MD	890 m / 2920 ft	BHST	47°C / 116°F
Hole Size	12.25 in / 311.15 mm	Depth TVD		BHCT	35°C / 95°F
Pressure	121 bar / 1750 psi				

Drilling Fluid Information

Mud Supplier Name	AMC	Mud Trade Name		Density	
--------------------------	-----	-----------------------	--	----------------	--

Cement Information - Tail Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
100	% BWOC	GCC Premium G				Slurry Density	15.798	lbm/gal
5.08	gal/sack	Fresh Water				Slurry Yield	1.16	ft3/sack
0.125	lb/sk	Pol-E-Flake				Water Requirement	5.08	gal/sack
0.1	% BWOC	HALAD-9 (PB)				Total Mix Fluid	5.08	gal/sack

Water Source	Fresh Water
Water Chloride	N/A

Slurry Comments**Operation Test Results Request ID 2155700/1****Mixability (0 - 5) - 0 is not mixable****23/Jul/2014**

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

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time**23/Jul/2014**

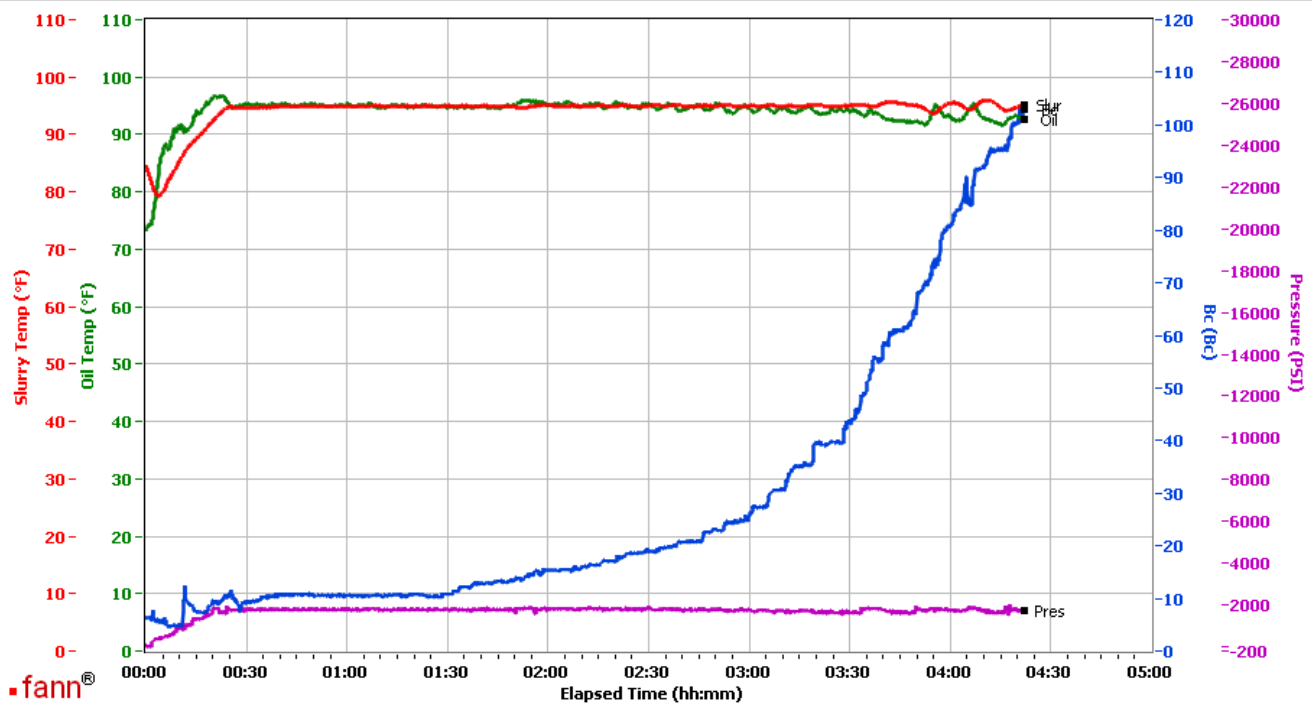
Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
95	1750	21	6	3:26	3:35	3:52	4:18

farmington

Fields	Values
Project Name	FM2155700-1 Kinder Morgan GP #27 Tail Bu
Test ID	FM2155700-1
Request ID	
Tested by	AP
Customer	KM
Well No	
Rig	
Casing/Liner Size	

Fields	Values
Job Type	
Cement Type	
Cement Weight	Standard
Test Date	07/23/14
Test Time	06:25 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.0.2.206

Events	Results
40.00 Bc	03h:26m
50.00 Bc	03h:35m
70.00 Bc	03h:52m
100.00 Bc	04h:18m
00h:30m	9.11
01h:00m	10.54
01h:30m	10.83
02h:00m	15.42



Data File C:\Documents and Settings\M290\Desktop\TT graphs\FM2155700-1 Kinder Morgan GP #27 Tail Bulk.tdms

Comments 15.8 ppg

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.