

**HALLIBURTON**

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**KINDER MORGAN INC**

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**Doe Canyon 11 Doe Canyon 11  
DOE CANYON  
Dolores County , Colorado**

**Cement Intermediate Casing**  
10-May-2012

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 320986	<b>Ship To #:</b> 2919605	<b>Quote #:</b>	<b>Sales Order #:</b> 9485521
<b>Customer:</b> KINDER MORGAN INC		<b>Customer Rep:</b> KYLE	
<b>Well Name:</b> Doe Canyon 11		<b>Well #:</b> Doe Canyon 11	
<b>Field:</b> DOE CANYON		<b>API/UWI #:</b>	
<b>City (SAP):</b> DOVE CREEK		<b>County/Parish:</b> Dolores	
<b>State:</b> Colorado			
<b>Legal Description:</b> Section 32 Township 37N Range 18W			
<b>Contractor:</b> Nabors		<b>Rig/Platform Name/Num:</b> Nabors 405 AC	
<b>Job Purpose:</b> Cement Intermediate Casing			
<b>Well Type:</b> Producing Well		<b>Job Type:</b> Cement Intermediate Casing	
<b>Sales Person:</b> SNYDER, RANDALL		<b>Srvc Supervisor:</b> KUKUS, CRAIG	
<b>MBU ID Emp #:</b> 369124			

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ACREE, EDWARD R	16	399000	BRANDT, NICHOLAS Wayne	16	487947	FABREY, KENDALL Edward	16	488836
JOHNSON, RICKEY Allen	16	516411	JONES, DAVID Michael	16	409749	KUKUS, CRAIG A	16	369124
MESTAS, CHAD	16	516495	NYE, KEVEN R	16	460558	RASH, JOHN T	16	505947
RICHESIN, ANTHONY Ray	16	412961						

**Equipment**

HES Unit #	Distance-1 way						
	120 mile	10025024	120 mile	10025040	120 mile	10741115	120 mile
10822043	120 mile	10948692	120 mile	11324578	120 mile	11583928	120 mile
11808849	120 mile	54283	120 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/9/12	9	4	5/10/12	6	6			

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	09 - May - 2012	05:00	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	09 - May - 2012	15:00	MST
<b>Job depth MD</b>	8255. m	<b>Job Depth TVD</b>	8255. m	<b>Job Completed</b>	10 - May - 2012	00:32
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	25. m	<b>Job Completed</b>	10 - May - 2012	05:07
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>	<b>Departed Loc</b>	10 - May - 2012	06:45	MST

**Well Data**

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
8 3/4" Open Hole				8.75				2388.	8221.		
7" Intermediate Casing	Unknown		7.	6.184	29.		13 Cr	.	5677.	.	5677.
7" Intermediate Casing	Unknown		7.	6.184	29.		13 Cr	7752.	8221.	8051.	8344.
7" Intermediate Casing	Unknown		7.	6.094	32.		13 Cr	5677.	7752.	6488.	8052.
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		K-55	.	2388.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER-7"-CSG-8-1/2"-HINGED	65	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
KIT,HALL WELD-A	2	EA		
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		

Tools and Accessories														
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	
Guide Shoe					Packer					Top Plug	7	1	HES	
Float Shoe					Bridge Plug					Bottom Plug				
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container	7	1	HES	
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 BBL	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate BBL/min	Total Mix Fluid m3/tonne			
1	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	4.0				
2	CHEMICAL WASH	CHEMICAL WASH - SBM (21914)			20.00	bbl	8.4	.0	.0	4.0				
3	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	4.0				
4	Lead Cement	HALSEAL (TM) SYSTEM (452987)			2000.0	sacks	13.	1.43	6.63	4	6.77			
	0.2 %	VERSASET, 55 LB SK (101376573)												
	0.15 %	HALAD-766, 55 LB SACK (101477695)												
	1.5 %	CHEM - FOAMER 760, TOTETANK (101664089)												
	6.634 Gal	FRESH WATER												
5	Tail Cement	HALCEM (TM) SYSTEM (452986)			300.0	sacks	13.5	1.29	5.73	4	5.73			
	0.2 %	VERSASET, 55 LB SK (101376573)												
	0.25 %	HALAD-766, 55 LB SACK (101477695)												
	5.727 Gal	FRESH WATER												
6	Displacement				378.00	bbl	8.33	.0	.0	10				
7	Top Out Cement	HALCEM (TM) SYSTEM (452986)			100.0	sacks	15.6	1.2	5.26	2.0	5.26			
	2 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)												
	5.258 Gal	FRESH WATER												
Calculated Values		Pressures			Volumes									
Displacement	305	Shut In: Instant			Lost Returns	0	Cement Slurry		598	Pad				
Top Of Cement	SURFACE	5 Min			Cement Returns	68	Actual Displacement		301	Treatment				
Frac Gradient		15 Min			Spacers	40	Load and Breakdown			Total Job	943			
Rates														
Circulating	RIG	Mixing		4	Displacement	10	Avg. Job		7					
Cement Left In Pipe		Amount	39.16 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									

*The Road to Excellence Starts with Safety*

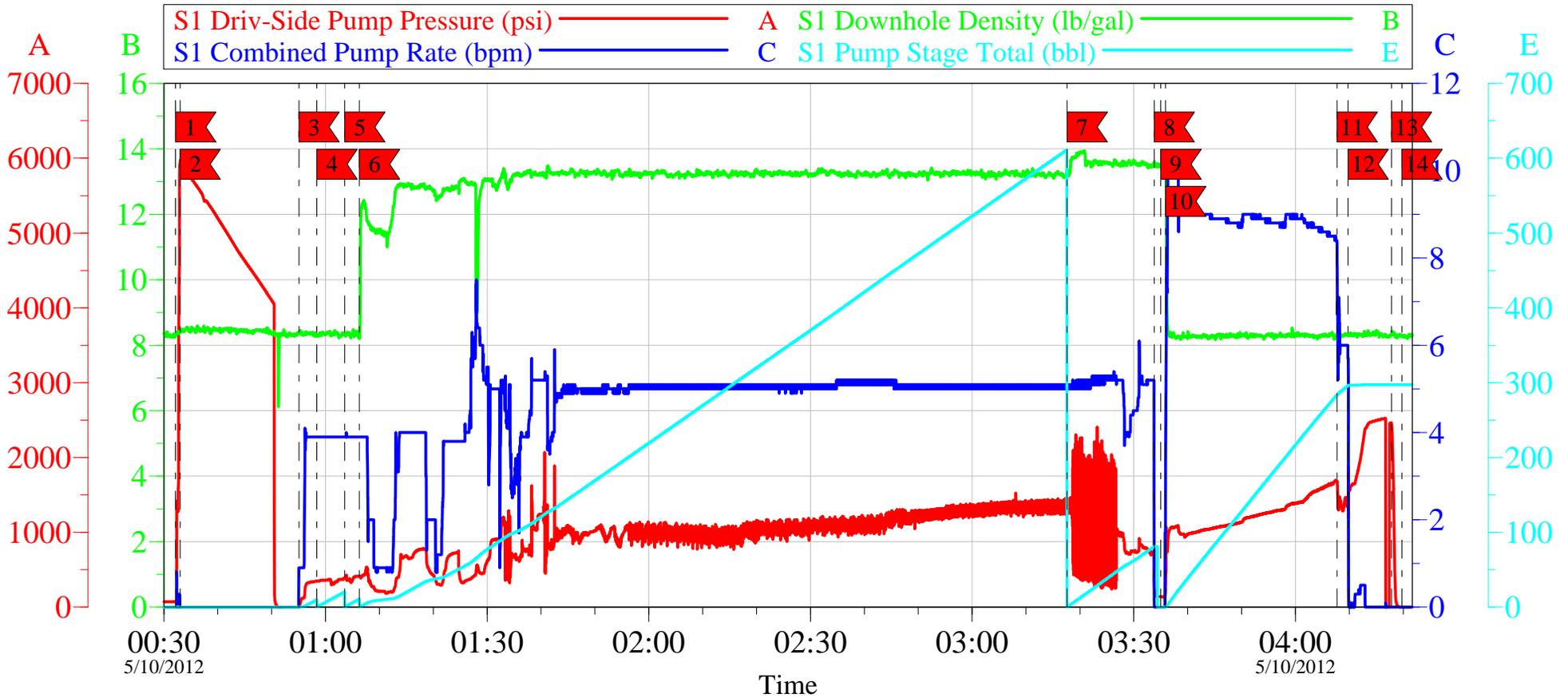
<b>Sold To #:</b> 320986	<b>Ship To #:</b> 2919605	<b>Quote #:</b>	<b>Sales Order #:</b> 9485521
<b>Customer:</b> KINDER MORGAN INC		<b>Customer Rep:</b>	
<b>Well Name:</b> Doe Canyon 11	<b>Well #:</b> Doe Canyon 11	<b>API/UWI #:</b>	
<b>Field:</b> DOE CANYON	<b>City (SAP):</b> DOVE CREEK	<b>County/Parish:</b> Dolores	<b>State:</b> Colorado
<b>Legal Description:</b> Section 32 Township 37N Range 18W			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Nabors		<b>Rig/Platform Name/Num:</b> Nabors 405 AC	
<b>Job Purpose:</b> Cement Intermediate Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Producing Well		<b>Job Type:</b> Cement Intermediate Casing	
<b>Sales Person:</b> SNYDER, RANDALL		<b>Srvc Supervisor:</b> KUKUS, CRAIG	<b>MBU ID Emp #:</b> 369124

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume m3		Pressure PSI		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/09/2012 05:00							
Depart Yard Safety Meeting	05/09/2012 11:30							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Arrive At Loc	05/09/2012 15:00							ARRIVED ON LOCATION RIG RUNNING CSG
Assessment Of Location Safety Meeting	05/09/2012 15:30							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Circulate Well	05/09/2012 16:00							RIG CIRCULATED WELL 6 BBL MIN APPROX 520 PSI
Pre-Rig Up Safety Meeting	05/09/2012 19:35							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	05/09/2012 20:00							RIG IRON TO STAND PIPE AND N2 IRON / WATER TO THE UP RIGHTS / IRON TO PIT
Pre-Job Safety Meeting	05/10/2012 00:10							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	05/10/2012 00:32							TD 8255 FT TP 8280.93 FT SJ 39.16 FT PIPE 7 IN 26 # AND 32# CR13 OH 8 3/4 IN MUD WT 10.1#
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume m3		Pressure PSI		Comments
				Stage	Total	Tubing	Casing	

Other	05/10/2012 00:33		2	5		135.0	PRIME LINES WITH FRES WATER / CHECKED FLOW METER READINGS/ AND CHECKED READINGS FOR THE PUMP TRUCKS
Pressure Test	05/10/2012 00:34		0.5			5000.0	PRESSURE TEST CMT PUMP GOOD / PRESSURE TEST N2 PUMP TO 7000 PSI
Pump Spacer 1	05/10/2012 00:55		4	10		330.0	FRESH WATER SPACER
Pump Spacer 2	05/10/2012 00:58		4	20		370.0	PUMP CHEM WASH SPACER
Pump Spacer 1	05/10/2012 01:03		4	10		370.0	FRESH WATER SPACER
Pump Lead Cement	05/10/2012 01:06		4	509		1240.0	PUMP 2000 SKS LEAD CEMENT AT 13.0 PPG 1.43 Y 6.63 GAL/SKS N2 PUMP ON LINE AT
Pump Tail Cement	05/10/2012 03:17		4	69		1200.0	PUMP 300 SKS TAIL CEMENT AT 13.5 PPG 1.29 Y 5.73 GAL/SKS / N2 PUMP OFF LINE AT
Shutdown	05/10/2012 03:33						SHUT DOWN / SWAP LINES AND WASH PUMP AND LINES
Drop Top Plug	05/10/2012 03:35						PLUG LEFT THE PLUG CONTAINER
Pump Displacement	05/10/2012 03:35		10	305		1616.0	PUMP FRESH WATER DISPLACEMENT
Slow Rate	05/10/2012 04:07		6	295		1430.0	SLOW RATE LAST 10 BBL TO 2 BBL MIN
Bump Plug	05/10/2012 04:09		6	305		2500.0	PLUG LANDED AT 1821 PSI
Check Floats	05/10/2012 04:17						FLOATS HELD / 2.5 BBL BACK TO TANKS
Pump Cement	05/10/2012 04:43		2	19		275.0	PUMP CEMENT CAP 100 SKS TOPOUT CEMENT AT 15.6 PPG 1.2 Y 5.26 GAL/SKS
Shutdown	05/10/2012 04:54						
Other	05/10/2012 04:56						CLOSR HCR VALVE / WASH UP
Clean Lines	05/10/2012 04:56						OPEN HCR VALVE / PUMP 5 BBL
Shutdown	05/10/2012 05:05						SHUT DOWN / CLOSE HCR VALVE
<b>Activity Description</b>	<b>Date/Time</b>	<b>Cht</b>	<b>Rate m3/min</b>	<b>Volume m3</b>	<b>Pressure MPa</b>		<b>Comments</b>

		#		Stage	Total	Tubing	Casing	
End Job	05/10/2012 05:07							HES HAD CEMENT PUMP TRUCK ON STAND BY AND N2 PUMP ON STANDY BY
Pre-Rig Down Safety Meeting	05/10/2012 05:15							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	05/10/2012 05:30							CLEAN UPLINES AND LEAVE HEAD ON CSG AND RIG DOWN LINES AND RACK UP
Safety Meeting - Departing Location	05/10/2012 06:30							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	05/10/2012 06:45							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

# Kinder Morgan Doe Canyon #11 Foam Intermediate



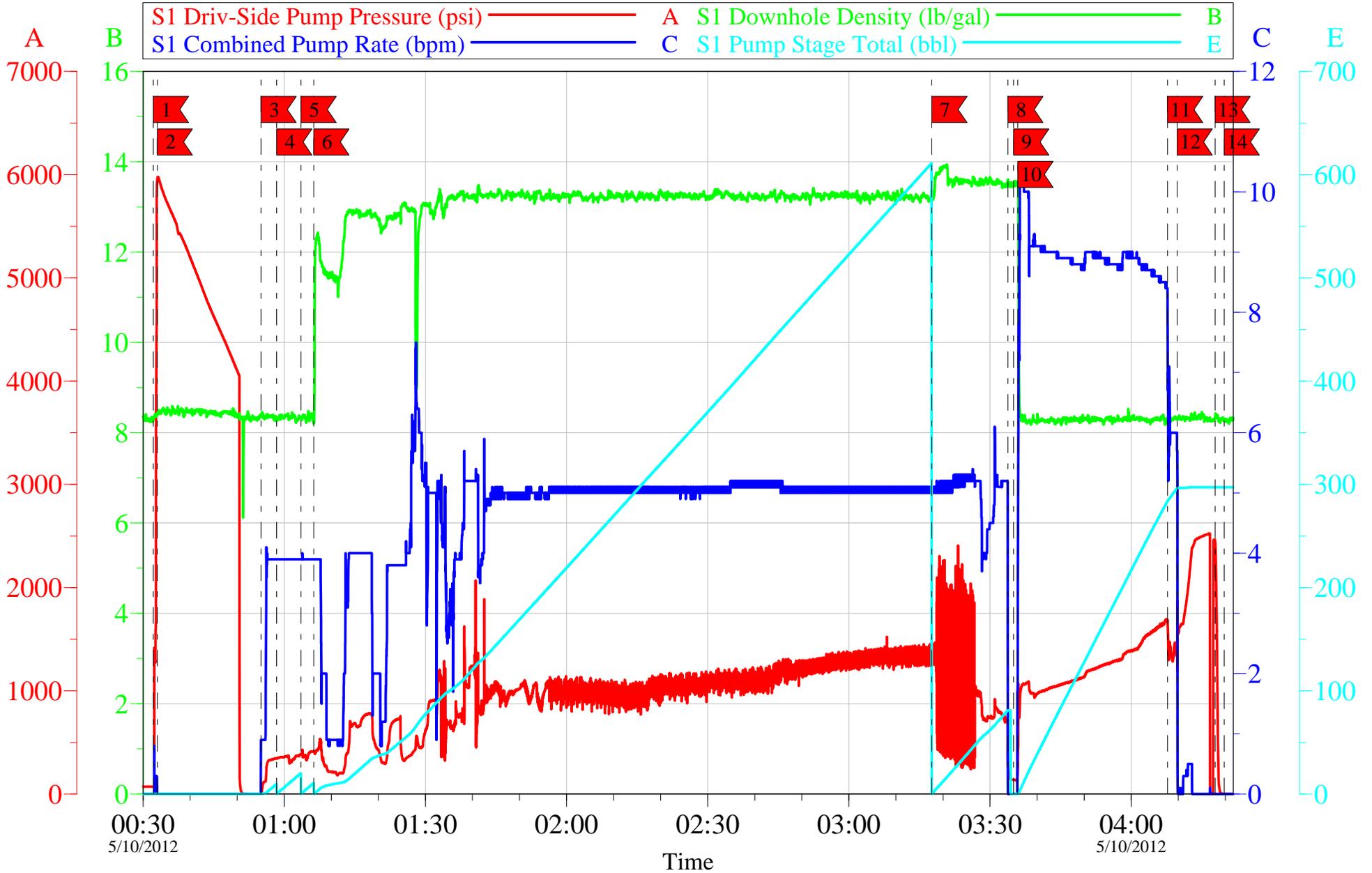
Local Event Log											
	Intersection	SDPP		Intersection	SDPP		Intersection	SDPP			
1	Start Job	00:32:10	71.23	2	Test Lines	00:33:00	5945	3	Pump H2O	00:55:04	-2.027
4	Pump Chem Wash	00:58:24	347.0	5	Pump H2O	01:03:33	388.7	6	Pump Foam Lead	01:06:17	415.1
7	Pump Tail Cement	03:17:37	1417	8	Shutdown	03:33:47	459.3	9	Drop Plug	03:35:01	139.0
10	Pump Displacement	03:35:55	300.1	11	Slow Rate	04:07:43	1687	12	Bump Plug	04:09:46	1456
13	Check Floats	04:17:49	2458	14	End Job	04:19:45	0.000				

Customer: Kinder Morgan  
Well Description: Doe Canyon #11  
Customer Rep: Kyle

Job Date: 10-May-2012  
Job Type: Foam Intermediate  
Service Supervisor: Craig Kukus

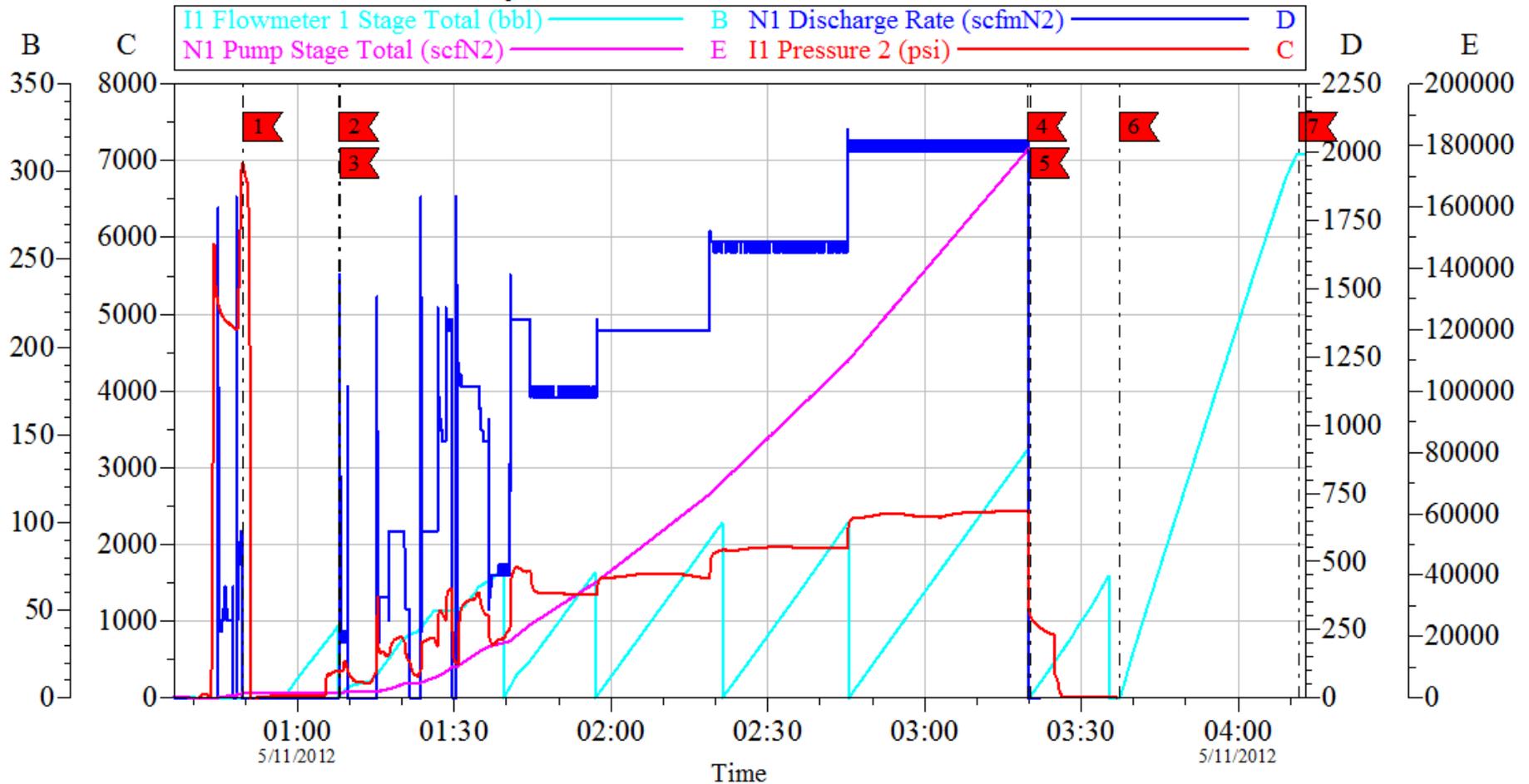
Sales Order #: 9485521  
ADC Used: YES  
Operator: Nick Brandt

# Kinder Morgan Doe Canyon #11 Foam Intermediate



Customer: Kinder Morgan	Job Date: 10-May-2012	Sales Order #: 9485521
Well Description: Doe Canyon #11	Job Type: Foam Intermediate	ADC Used: YES
Customer Rep: Kyle	Service Supervisor: Craig Kukus	Operator: Nick Brandt

# Kinder Morgan Doe Canyon #11 Foam Intermediate N2 Chart

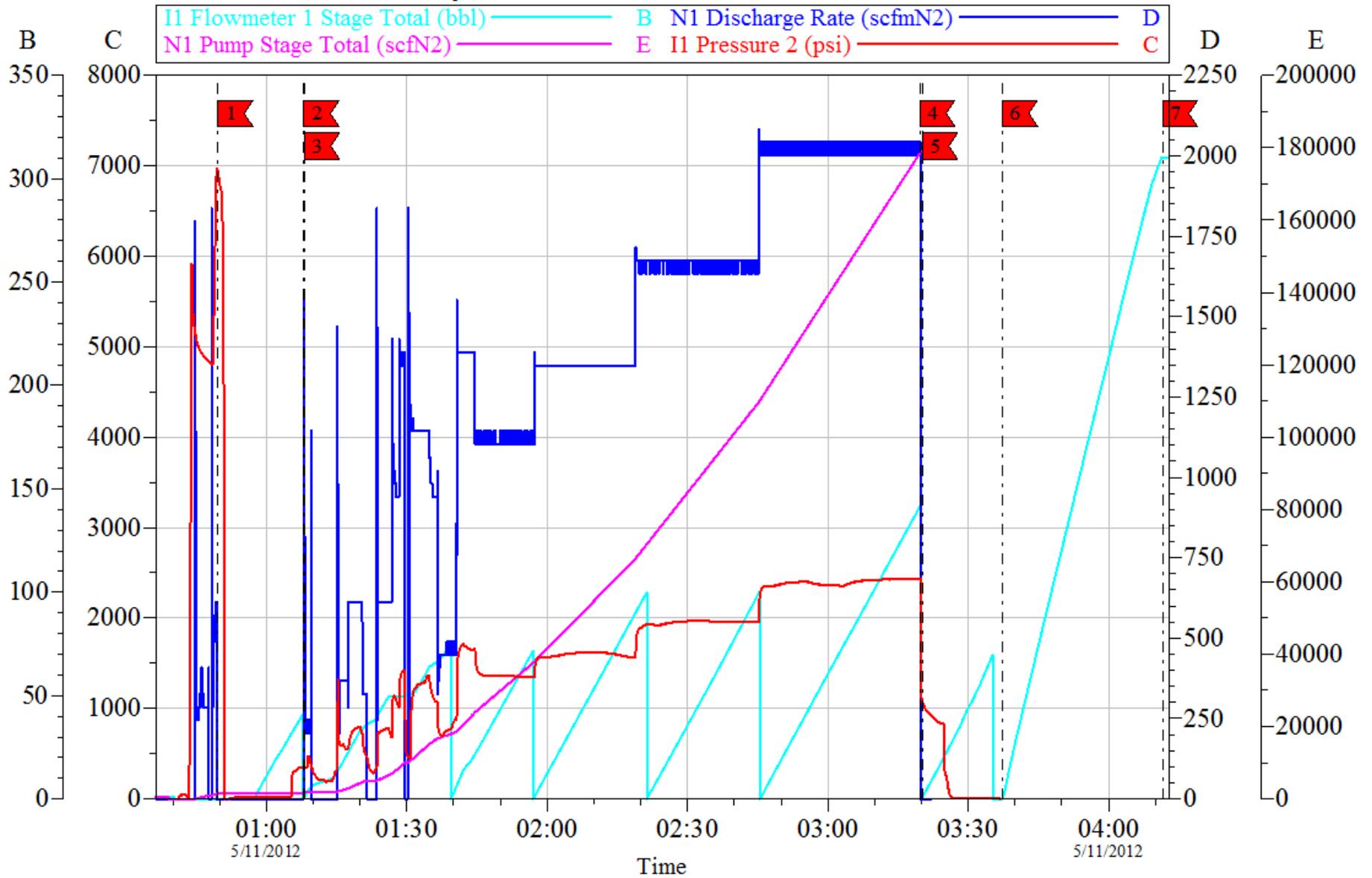


Local Event Log			
1	Pressure Test N2	00:49:37	2
2	Start N2	01:08:00	3
3	Pump Foam Lead Cement	01:08:08	4
4	Shutdown N2	03:19:39	5
5	Pump Tail Cement	03:20:14	6
6	Pump Displacement	03:37:18	7
7	Bump Plug	04:11:31	

Customer: Kinder Morgan	Job Date: 10-May-2012	Sales Order #: 9485521
Well Description: Doe Canyon #11	Job Type: Foam Intermediate	ADC Used: YES
Company Rep: Kyle	Service Supervisor: Craig Kukus	Operator: Nick Brandt

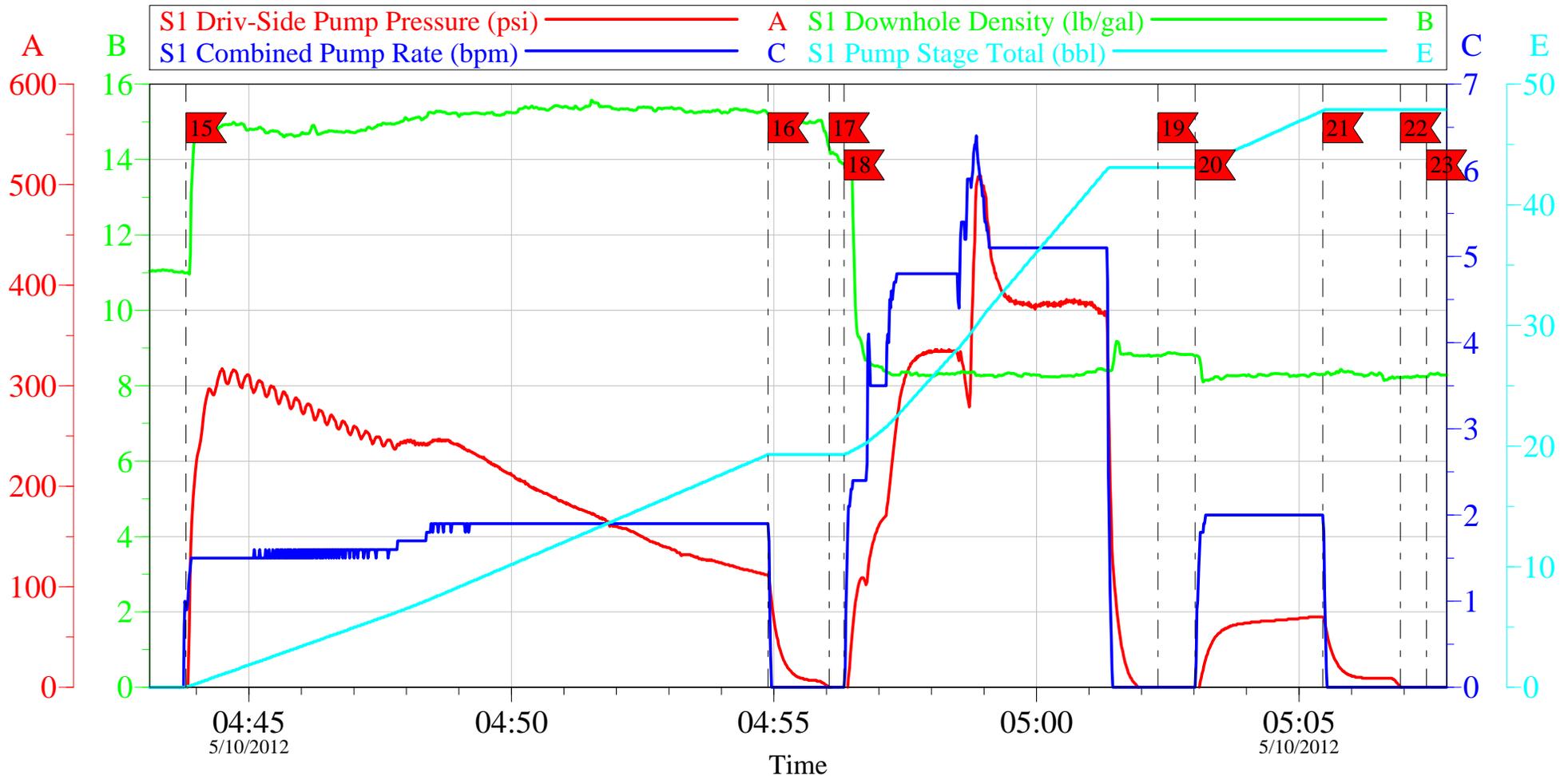
OptiCem v6.4.9  
11-May-12 06:14

# Kinder Morgan Doe Canyon #11 Foam Intermediate N2 Chart



Customer: Kinder Morgan	Job Date: 10-May-2012	Sales Order #: 9485521
Well Description: Doe Canyon #11	Job Type: Foam Intermediate	ADC Used: YES
Company Rep: Kyle	Service Supervisor: Craig Kukus	Operator: Nick Brandt

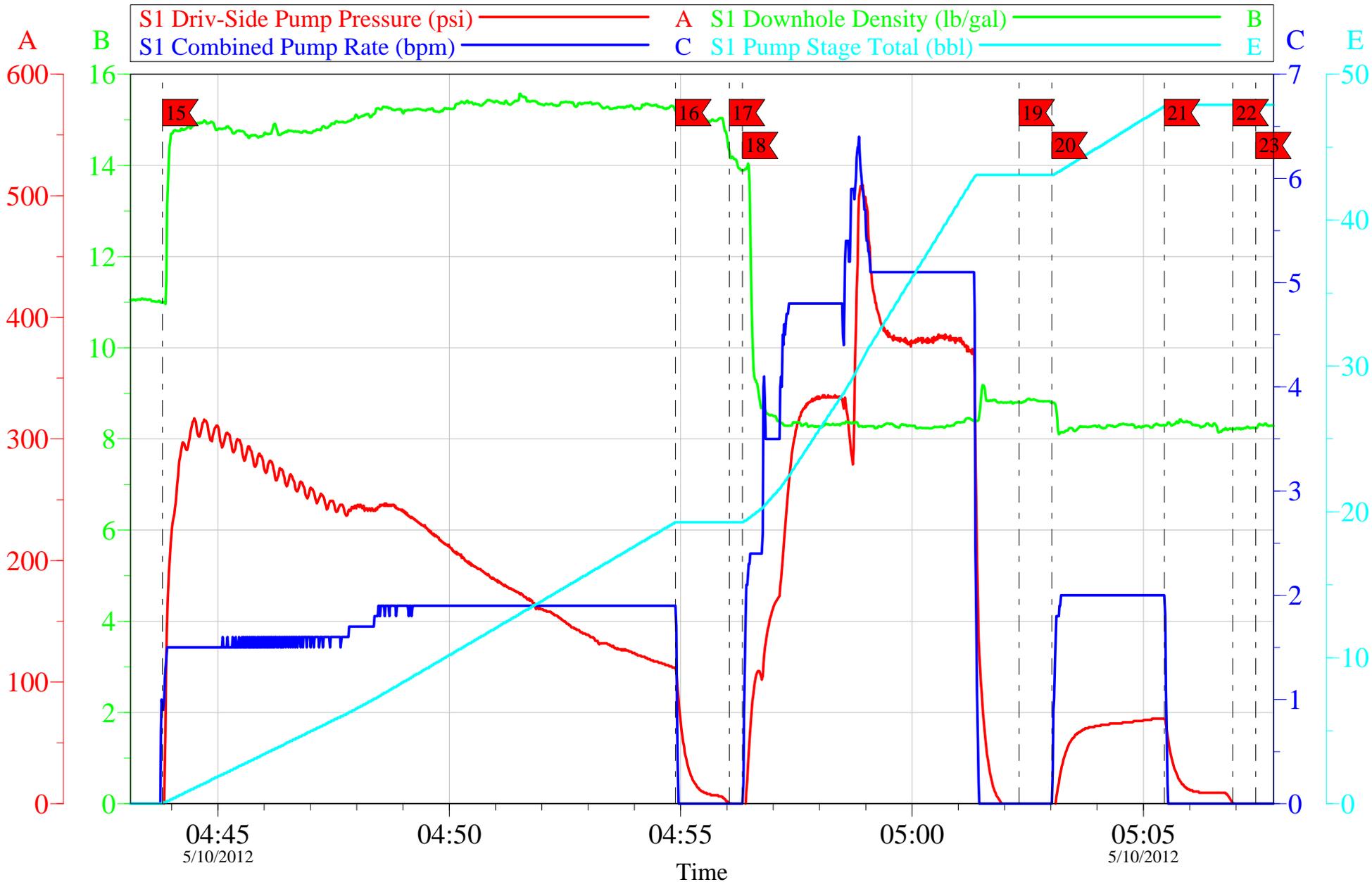
# Kinder Morgan Doe Canyon #11 Foam Intermediate



Local Event Log					
Intersection	SDPP	Intersection	SDPP	Intersection	SDPP
<b>15</b> Pump Cap Cement	04:43:48 -3.000	<b>16</b> Shutdown	04:54:53 111.8	<b>17</b> Close HCR Valve	04:56:03 0.333
<b>18</b> Wash up	04:56:20 -3.000	<b>19</b> Open HCR Valve	05:02:19 -6.000	<b>20</b> Pump 5 bbl H2O	05:03:01 -6.000
<b>21</b> Shutdown	05:05:27 69.95	<b>22</b> Close HCR Valve	05:06:56 0.203	<b>23</b> End Job	05:07:26 -7.000

Customer: Kinder Morgan	Job Date: 10-May-2012	Sales Order #: 9485521
Well Description: Doe Canyon #11	Job Type: Foam Intermediate	ADC Used: YES
Customer Rep: Kyle	Service Supervisor: Craig Kukus	Operator: Nick Brandt

# Kinder Morgan Doe Canyon #11 Foam Intermediate



Customer: Kinder Morgan	Job Date: 10-May-2012	Sales Order #: 9485521
Well Description: Doe Canyon #11	Job Type: Foam Intermediate	ADC Used: YES
Customer Rep: Kyle	Service Supervisor: Craig Kukus	Operator: Nick Brandt

### Cementing Rockies, Farmington

#### Job Information

Request/Slurry	230174/1	Rig Name		Date	14/APR/2012
Submitted By	Ryan Keeran	Job Type	Foam Job	Bulk Plant	Farmington
Customer	Kinder Morgan	Location		Well	Doe Canyon #11

#### Well Information

Casing/Liner Size	7"	Depth MD	8221 ft	BHST	179 F
Hole Size	8 3/4"	Depth TVD	8221 ft	BHCT	134 F

#### Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	
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#### Cement Information - Lead Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
100.00	% BWOC	Cement Blend				Slurry Density	13.00	PPG
6.89	gal/sack	Fresh Water	Lab	Aug 17, 2011	N/A	Slurry Yield	1.44	ft3/sk
2.000	% BWOC	Bentonite Wyoming - PB	Chemicals	Apr 08, 2012	2075743	Water Requirement	6.89	GPS
0.200	% BWOC	VERSASET (PB)	Chemicals	Apr 08, 2012	11-p-.3	Total Mix Fluid	6.89	GPS
0.150	% BWOC	HALAD-766	Chemicals	Apr 08, 2012	deat126756	Foam Density	9.497	PPG
1.500	% BVOW	Foamer 760	Lab	Dec 15, 2011	7453824	Foam Quality	26.73	%
						Water Source		Fresh Water
						Water Chloride		N/A ppm

#### Pilot Test Results Request ID 230174/2

##### FYSA Viscosity Profile & Gel Strength

Test Temp (°F)	600	300	200	100	60	30	6	3	3D - 3 rpm Decay	6D - 6 rpm Decay	Gel 10 min FYSA reading (1 rpm)	Gel 30 min FYSA reading (1 rpm)	K1 factor	K2 factor	Foam Quality	PV/YP	FYSA Direct YP
80	32	14	10	8	8	7	8	8	6	5	20	27	0.306	0.634	27	81.4 / 7.2	7.3

Slurry showed free fluid after 1.5 hours. Calculated foam quality at 27%.

##### FYSA Viscosity Profile & Gel Strength

Test Temp (°F)	300	200	100	60	30	6	3	3D - 3 rpm Decay	6D - 6 rpm Decay	Cond. time	Gel 10 min FYSA reading (1 rpm)	Gel 30 min FYSA reading (1 rpm)	K1 factor	K2 factor	Foam Quality	PV/YP	FYSA Direct YP
80	14	13	11	10	10	10	11	8	7	0	36	48	0.306	0.634	22	27.8 / 13.1	10.2

#### Pilot Test Results Request ID 230174/1

##### Thickening Time

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Termination Time	Termination BC
134	5,050	42	0	03:25	03:46	04:34	06:31	07:48	07:48	62

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**Mixability (0 - 5) - 0 is not mixable**

Mixability rating (0 - 5)

Avg rpm mixing under load

5

12,000

**Foam Mix and Stability**

Sink [mm]	Time to Foam [Sec]	Average Mix Speed [rpm]	Foam Density [SG]	Conditioning time (hrs:min)
1	10	12,000	1.15	00:00

No settling in the cylinder. No free fluid. 287.43grams / 250 mL. Calculated foam quality 26.19%.

**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
107	23	18	14	12	10	8	6	20	15.5 / 8.4

10 minute gel 16.2 , 10 second gel 9.6.

**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
80	29	25	20	18	18	16	14	0	14 / 16.4

10 minute gel 44 , 10 second gel 23.7

**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
134	18	14	10	8	8	5	6	20	12.6 / 6.2

10 minute gel 12.5 , 10 second gel 7.4.

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### Cementing Rockies, Farmington

#### Job Information

Request/Slurry	230175/1	Rig Name		Date	14/APR/2012
Submitted By	Ryan Keeran	Job Type	Foam Job	Bulk Plant	Farmington
Customer	Kinder Morgan	Location		Well	Doe Canyon #11

#### Well Information

Casing/Liner Size	7"	Depth MD	8221 ft	BHST	179 F
Hole Size	8 3/4"	Depth TVD	8221 ft	BHCT	134 F

#### Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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#### Cement Information - Tail Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
100.00	% BWOC	Cement Blend				Slurry Density	13.50	PPG
1.000	% BWOC	Bentonite Wyoming - PB	Chemicals	Apr 08, 2012	2075743	Slurry Yield	1.29	ft3/sk
0.200	% BWOC	VERSASET (PB)	Chemicals	Apr 08, 2012	11-p-.3	Water Requirement	5.79	GPS
0.250	% BWOC	HALAD-766	Chemicals	Apr 08, 2012	deat126756	Total Mix Fluid	5.79	GPS
5.79	gal/sack	Fresh Water	Lab	Aug 17, 2011	N/A	Water Source		Fresh Water
						Water Chloride		N/A ppm

#### Pilot Test Results Request ID 230175/1

##### UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8 hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
179	3,000	12:12	40:42	0	45	121	280	563	736	72

##### Thickening Time

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Termination Time	Termination BC
134	5,050	42	9	08:37	09:39	10:12	10:55	12:41	12:41	57

##### Mixability (0 - 5) - 0 is not mixable

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

##### Free Water

Test Temp (°F)	% FW Vert	% FW 45 Inc	Conditioning time
134	2	7.6	20

Moderate channeling in the 45 degree test.

##### API Sedimentation Test

Test Temp (°F)	Result Type	1	2	3	4	5	Avg. SG	St.Dev.
80	SG	1.56	N/A	1.6	N/A	1.62	1.6	0.03
	Dev.(%)	-2.1	N/A	0.3	N/A	1.8		

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**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
107	29	22	14	10	8	6	6	20	23 / 6.4

10 minute gel 14.4 , 10 second gel 7.7.

**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
80	36	28	20	16	14	12	11	0	24.7 / 12.2

10 minute gel 28.0 , 10 second gel 12.9.

**API Rheology**

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
134	27	20	14	11	8	6	5	20	21.4 / 6.2

10 minute gel 7.4 , 10 second gel 6.1.

**API Fluid Loss**

Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calc. ISO FL (<30 min)	Conditioning time (min)
134	1,000	30	51	944	20

Tests blew out 51 mL in 21 seconds.

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<b>Sales Order #:</b> 9485521	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/10/2012
<b>Customer:</b> KINDER MORGAN INC		<b>Job Type (BOM):</b> CMT INTERMEDIATE CASING BOM
<b>Customer Representative:</b> KYLE		<b>API / UWI: (leave blank if unknown)</b> AFEYKDCF55JYRHHWAAA
<b>Well Name:</b> Doe Canyon 11		<b>Well Number:</b> Doe Canyon 11
<b>Well Type:</b> Producing Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Dolores

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	5/10/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CRAIG KUKUS (HX19742)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	KYLE
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	5/10/2012
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	10
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	5
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 9485521	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/10/2012
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Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	97
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	97
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0