

EXXONMOBIL CORPORATION
HOUSTON, Texas

PCU 296-6A5 Surface Casing

H&P 239

Post Job Summary

Cement Multiple Stages

Prepared for: Joshua Anglin
Date Prepared: July 15, 2010
Version: 1

Service Supervisor: Jeremy Pace

Submitted by: Simukayi Mutasa

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		TVD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft		
Open Hole Section	Surface Open Hole		14.750		0.00	1,602.00	0.00	1,571.00	75.00	
Open Hole Section	Surface Open Hole		14.750		1,602.00	4,431.00	1,571.00	4,323.00	25.00	
Casing	Surface Casing	10.75	9.950	45.50	0.00	4,401.00	0.00	4,242.00		80.00
Cement Stage Tool	Multiple Stage Cementer				0.00	1,602.00	0.00	1571.00		0.00

Pumping Schedule

Stage/Plug #	Fluid #	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume
1	1	FreshWater Ahead	8.33	6.00	50.0 bbl
1	2	1 st Stage Lead Cement	12.70	6.00	920.0 sacks
1	3	1 st Stage Tail Cement	15.80	6.00	350.0 sacks
1	4	Drilling Fluid / Mud	8.90	6.00	412.0 bbl
2	1	Freshwater Ahead	8.33	6.00	50.0 bbl
2	2	2 nd Stage Lead Cement	12.70	6.00	840.0 sacks
2	3	Drilling Fluid / Mud	8.90	6.00	130.0 bbl
2	4	TOP OUT	15.80	2.00	40.0 sacks

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Fluids Pumped

Stage/Plug # 1 Fluid 1: FreshWater Ahead
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal
Fluid Volume: 50.00 bbl
Pump Rate: 6.00 bbl/min

Stage/Plug # 1 Fluid 2: First Stage Lead
Cement
ECONOCEM (TM) SYSTEM
0.6 % HR-7
0.25 lbm Poly-E-Flake

Fluid Weight: 12.70 lbm/gal
Slurry Yield: 1.88 ft3/sack
Total Mixing Fluid: 9.96 Gal
Surface Volume: 920.0 sacks
Sacks: 920.0 sacks
Calculated Fill: 2,455.00 ft
Calculated Top of Fluid: 1,602.00 ft
Pump Rate: 6.00 bbl/min

Stage/Plug # 1 Fluid 3: First Stage Tail Cement
HALCEM (TM) SYSTEM
0.25 % HR-800
0.25 lbm Poly-E-Flake

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.15 ft3/sack
Total Mixing Fluid: 4.95 Gal
Surface Volume: 350.0 sacks
Sacks: 350.0 sacks
Calculated Fill: 516.00 ft
Calculated Top of Fluid: 4,057.00 ft
Pump Rate: 6.00 bbl/min

Stage/Plug # 1 Fluid 4: Drilling Fluid / Mud
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.90 lbm/gal
Pump Rate: 6.00 bbl/min

Stage/Plug # 2 Fluid 1: Freshwater Ahead
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal
Pump Rate: 6.00 bbl/min

Stage/Plug # 2 Fluid 2: Second Stage Lead
Cement
ECONOCEM (TM) SYSTEM
0.25 lbm Poly-E-Flake

Fluid Weight: 12.70 lbm/gal
Slurry Yield: 1.87 ft3/sack
Total Mixing Fluid: 9.98 Gal
Surface Volume: 840.0 sacks
Sacks: 840.0 sacks
Calculated Fill: 1,602.00 ft
Calculated Top of Fluid: 0.00 ft
Pump Rate: 6.00 bbl/min

Stage/Plug # 2 Fluid 3: Drilling Fluid / Mud DUMMY MUD / FLUSH / SPACER SBC MATERIAL

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Fluid Density: 8.90 lbm/gal
Pump Rate: 6.00 bbl/min

Stage/Plug # 2	Fluid 4:	TOP OUT
TOP OUT		
94 lbm	Premium Cement	
2 %	Calcium Chloride	

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.17 ft³/sack
Total Mixing Fluid: 5.02 Gal
Surface Volume: 40.0 sacks
Sacks: 40.0 sacks
Pump Rate: 2.00 bbl/min

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Job Summary

Job Information

Job Start Date	7/12/2010 1:58:00 PM
Job MD	4,431.0 ft
Job TVD	4,323.0 ft
Height of Plug Container/Swage Above Rig Floor	5.0 ft
Surface Temperature at Time of Job	80 degF
Mud Type	Water Based Mud
Name of Mud Company	BAROID
Actual Mud Density	9.20 lbm/gal
Mud PV	8.0 cp
Mud YP	24.0 lbf/100ft
Mud Gel Strength	3/5/18
Time Circulated before job	4.00 hour(s)
Calculated Displacement	154.07 bbl
Job Displaced by (rig/halco)	Cement Unit HP Pumps
Pipe Movement During Cement Job	Reciprocated
Length of Rat Hole	30.00 ft

Cementing Equipment

Pipe Centralization	Through Entire Cement Column
Did Float Equipment Hold?	Yes
Plug set used?	Yes
Did Plugs Bump?	No
Calculated Pressure to Bump Plugs	780.0 psig
Did Stage Cementing Tool Open Properly?	Yes

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
07/12/2010 03:00		Call Out				CALLED OUT EXXON MOBIL H&P 239
07/12/2010 04:00		Pre-Convoy Safety Meeting				DISCUSSED HAZARDS TO LOCATION
07/12/2010 04:30		Crew Leave Yard				LEFT THE YARD
07/12/2010 08:15		Arrive At Loc				ARRIVED ON LOCATION, WITH AROUND 1650' TO 1700' OF CASING RAN
07/12/2010 08:25		Assessment Of Location Safety Meeting				DISCUSSED SPOTTING OF EQUIPMENT AND EE'S ROLES
07/12/2010 08:35		Safety Meeting - Pre Rig-Up				SAFETY MEETING, DISCUSSED EACH EE ROLE AND ASSIGNED JOB TASKS
07/12/2010 08:42		Rig-Up Equipment				RIGGED UP EQUIPMENT
07/12/2010 10:30		Other				SAFETY MEETING WITH RIG CREW ABOUT BRINGING UP PUR IRON TO THE RIG FLOOR
07/12/2010 10:32		Other				WAITED ON RIG CREW TO RIG DOWN CASING TOOL, WEATHERFORD FOUGHT THE LAST STICK OF CASING APPROX. 1.5 HOURS. THE CASING WOULD NOT TURN OUT OF THE COUPLING. THEY TRIED ROTATING THE CASING UP IN THE DERIK AS WELL AS PUSHING AND PULLING IT. AT ONE POINT THEY
07/12/2010 10:32		Other				AT ONE POINT THEY HAD A TUG LINE WRAPPED AROUND IT TRYING TO PULL IT TO ONE SIDE SO THAT WEATHERFORD COULD GET THERE TOOL TO ROTATE IT OFF.
07/12/2010 12:35		Rig-Up Completed				FINISHED RIGGING UP RIG FLOOR
07/12/2010 13:58		Pressure Test			503.0	LOW PRESSURE TEST TO 250 PSI HELD FOR 3 MINUTES
07/12/2010 14:02		Pressure Test			5254.0	HIGH PRESSURE TEST TO 5000 PSI HELD FOR 3 MINUTES
07/12/2010 14:04		Other			.0	RELEASED LINE PRESSURE
07/12/2010 14:06		Pump Water	4	50	163.0	START 50BBLs FRESH WATER AHEAD, THE RIG WILL RECIPRICATE THE CASING DURING THE ENTIRE JOB.
07/12/2010 14:23		Pump Lead Cement	4	331	290.0	STARTED 12.7# SLURRY, 920 SKS ECONOCHEM, 1.88 YEILD, 9.96 GPS H2O
07/12/2010 15:21		Pump Tail Cement	6	77	364.0	STARTED 15.8# SLURRY, 350 SKS HALCEM, 1.15 YEILD, 4.95 GPS H2O
07/12/2010 15:35		Drop Bottom Plug				DROPPED PLUG, HAD TO REMOVE CAP AND HALLIBURTON TAPPED PLUG INTO THE COLLAR.
07/12/2010 15:48		Pump Displacement	5		221.2	START DISPLACEMENT
07/12/2010 16:09		Pump Displacement	3	140		SLOWED RATE TO 3 BPM FOR 20 BBLs TO GO THROUGH THE DV TOOL.
07/12/2010 16:35		Pump Displacement	6	260	321.0	STARTED 20 BBLs OF FRESH WATER
07/12/2010 16:40		Pump Displacement	6	280	410.0	WENT BACK TO MUD DISPLACEMENT
07/12/2010 16:41		Other	6	285	425.0	CAUGHT CEMENT WITH 285 BBLs AWAY
07/12/2010 16:51		Pump Displacement	6	350	660.0	350 BBLs AWAY
07/12/2010 16:56		Pump Displacement	4	380	580.0	SLOWED TO 5 BPM
07/12/2010 17:01		Pump Displacement	5	400	900.0	RAISED RATE TO 5 BPM

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Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
07/12/2010 17:02		Pump Displacement	6	405	995.0	RAISED RATE TO 6 BPM
07/12/2010 17:02		Pump Displacement	5	408	930.0	SLOWED RATE TO 5 BPM
07/12/2010 17:03		Pump Displacement	3	409	800.0	SLOWED TO 3 BPM
07/12/2010 17:04		Bump Plug		412	872.0	LANDED PLUG, FINAL PUMPING PRESSURE 1343, AT THIS POINT THE CASING WAS STUCK UP IN THE DERRICK ABOUT 20-25 FEET. THE RIG RECIPRICATED THE WELL THE DURING THE WHOLE JOB UP UNTIL IT WAS STUCK AND COULD NOT RETURN TO THE RIG FLOOR.
07/12/2010 17:10		Check Floats				CHECKED FLOATS, THEY HELD, 2.0 BBLS BACK
07/12/2010 17:40		Drop Opening Device For Multiple Stage Cementer				DROPPED TOOL WAITED 15 MINUTES THEN PRESSURED UP ON IT AND OPENED IT, PUMPED 20 BBLS OF MUD THEN TURNED IT OVER TO THE RIG.
07/12/2010 17:55		Open Multiple Stage Cementer	0.5		385.0	OPENED D.V. TOOL AT 385 PSI AND AT AN IDLE WITH THE PUMPS
07/12/2010 17:56		Open Multiple Stage Cementer	4		380.0	STARTED OUT 20 BBLS OF MUDD AFTER OPENING THE DV TOOL
07/12/2010 17:59		Open Multiple Stage Cementer	4	14	375.0	AT 14 BBLS AWAY WE GOT RETURNS BACK
07/12/2010 18:03		Open Multiple Stage Cementer	4	20	360.0	PUMPED 6 MORE BBLS AND SHUT DOWN. AT THIS POINT WE SWAPPED OUR VALVES AND TURN IT OVER TO THE RIG.
07/12/2010 18:03		Other				TURNED OVER TO THE RIG UNTIL SECOND STAGE
07/12/2010 19:30		Safety Meeting				SAFETY MEETING WITH THE RIG CREW AND DISCUSSED THE SECOND STAGE
07/12/2010 19:45		Prime Pumps				PRIMED UP PUMP TRUCK
07/12/2010 19:52		Pump Water	4	50	147.0	START 50 BBLS OF SECOND STAGE SPACER
07/12/2010 20:06		Pump 2nd Stage Lead Slurry	5	280	190.0	START SECOND STAGE LEAD 12.7# ECONOCEM, 1.87 YEILD, 9.98 GAL/SK, 294.8 TOTAL CEMENT PUMPED
07/12/2010 21:04		Shutdown				SHUT DOWN DROPPED PLUG
07/12/2010 21:19		Pump Displacement	5		344.0	STARTED DISPLACEMENT, 130 BBLS OF MUDD FINISHING UP WITH THE LAST 24 BBLS OF FRESH WATER
07/12/2010 21:39		Pump Displacement	5	100	515.0	100 BBLS AWAY
07/12/2010 21:45		Pump Displacement	3.1	130	490.0	FINAL WATER PORTION OF DISPLACEMENT
07/12/2010 21:55		Bump Plug		159	394.4	SHUT DOWN AND NEVER LANDED THE PLUG, WE LOOKED AT ALL OF OUR OPTIONS.
07/12/2010 22:42		Pump Displacement	2	3	365.0	PUMPED 3 BBLS THAN SHUT DOWN, OPENED UP THE BLEED OFF LINE AND BLED 8 BBLS BACK
07/12/2010 22:48		Pump Displacement	0.5	0.25	300.0	PUMPED .25 BBLS AT .5 BPM AND SHUT DOWN
07/12/2010 22:56		Pump Displacement	4	10	490.0	PUMPED 10 BBLS SHUT DOWN. OPENED UP THE BLEED OFF LINE AND BLED ALL 10 BBLS BACK AND CALLED IT.
07/13/2010 08:00		Pre-Rig Down Safety Meeting				SAFETY MEETING ABOUT RIGGING DOWN, POTENTIAL HAZARDS AND ASSIGN TASKS. WE RIGGED DOWN THE FLOOR INCLUDING THE PLUG CONTAINER.
07/13/2010 08:10		Rig-Down Equipment				START RIGGING DOWN THE FLOOR
07/13/2010 08:10		Other				PLUG CONTAINER CAME OFF OF THE CSG. 20 PLUS FEET IN THE AIR, AS THE PLUG CONTAINER CAME DOWN THE CLOSING PLUG WAS WEDGED IN THE PLUG CONTAINER. EXXON & HES PERSONNEL OBSERVED PLUG WEDGE IN CONTAINER
07/13/2010 08:20		Other				PLUG CONTAINER WAS TAKEN TO COMPANY REP'S SHACK AND LAID DOWN TO INSPECT THE PLUG & ALL PARTIES TOOK PHOTO'S OF THE PLUG WEDGE IN THE PLUG CONTAINER.
07/13/2010 08:25		Other				BRIAN LOCKETT OUR SERVICE LEADER ON THE JOB NOTICED OUR CLOSING PLUG WAS OFF CENTERED AND TOOK SOME MUSCLE TO MOVE THE CLOSING PLUG TO THE CENTER POSITION, ONCE AT THE CENTERED POSITION BRIAN PULLED THE PLUG OUT NOTICING CONTAMINATED MUD, CMT PACKED OFF

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Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
07/13/2010 08:25		Other				IN THE FINS MAINLY ON 1 SIDE OF THE PLUG WITH CUTTINGS MIXED IN THE CONTAMINATED FLUID.
07/13/2010 08:30		Other				BRIAN LOCKETT TOOK SAMPLES OFF THE CLOSING PLUG OF CONTAMINATED FLUID FOR FURTHER ANALYSIS AND SAMPLES OF CEMENT, DRILLING MUD, MIX WATER AND CLOSING PLUG. THE COMPANY REPS TOOK ACTUAL MEASUREMENTS OF OUR PLUG CONTAINER AND CLOSING PLUG BASICALLY
07/13/2010 08:31		Other				INDICATES WE MATCH AS FAR AS OUR CALIBRATION SHEET GO TO MY UNDERSTANDINGS. THEY MEASURED THE VERY TOP FIN ON THE PLUG CONTAINER WHICH MEASURED OUT A GREATER OD THAN ID OF THE CSG. WHICH MEANS NOTHING BECAUSE WITH A HIGH DISPLACEMENT VELOCITY THAT
07/13/2010 08:31		Other				FIN WILL BEND BACK ENOUGH TO SLIDE THROUGH. AND THEY THOUGHT IT COULD OF MAYBE BE THE CAUSE TO HANG UP, BUT IF THAT WAS THE CASE THE CLOSING PLUG WOULD OF STUCK OUT THE PLUG CONTAINER THAT MUCH FURTHER, IT WOULD BE OBVIOUS IT WAS WEDGED ON THE 2ND
07/13/2010 08:31		Other				TO LAST FIN.
07/13/2010 08:57		Other				PULLED CAP OFF OF THE PLUG CONTAINER AS PER EXXON COMPANY REP. THEY MEASURED IT WITH A CALIBRATION TOOL AND MEASURING TAPE. THEY MEASURED THE PLUG AND THE ID OF THE PLUG CONTAINER.
07/13/2010 09:05		Wait on Orders - Start Time				WAITING FOR EXXON COMPANY REP'S TO LETS US KNOW WHEN WE CAN TOP OUT WELL.
07/13/2010 15:13		Pump Cap Cement	1	8	100.0	PUMPED TOP-OUT CEMENT. 8 BBLS PUMPED AND CEMENT DID COME TO SURFACE AND STAYED, 40 SACKS USED WITH 2% CALCIUM CHLORIDE
07/13/2010 17:40		Rig-Down Completed				RIG DOWN WAS COMPLETED
07/13/2010 17:45		Pre-Convoy Safety Meeting				SAFETY MEETING REGARDING WHERE WE ARE GOING NEXT
07/13/2010 17:50		Depart Location for Service Center or Other Site				LEFT LOCATION

The Road to Excellence Starts with Safety

Sold To #: 331699		Ship To #: 2792491		Quote #:		Sales Order #: 7487556	
Customer: EXXONMOBIL CORPORATION				Customer Rep: Naranjo, German			
Well Name: PCU			Well #: 296-6A5			API/UWI #: 05-103-11478	
Field: PICEANCE CREEK		City (SAP): MEEKER		County/Parish: Rio Blanco			State: Colorado
Legal Description: Section 6 Township 2S Range 96W							
Contractor: H&P			Rig/Platform Name/Num: 239				
Job Purpose: Cement Multiple Stages							
Well Type: Development Well			Job Type: Cement Multiple Stages				
Sales Person: TURNER, JAMIE			Srvc Supervisor: PACE, JEREMY			MBU ID Emp #: 452201	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARPENTER, LANCE S		461737	ESTEP, KENNETH		121420	LOCKETT, BRIAN LaRue		361233
MCKEE, SCOTT Burt		470316	PACE, JEREMY J		452201	PEAY, SHANE Blake		472880
WALTON, SHELDON Kent		471754						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

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
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Job

Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out		
Form Type		BHST	141 degF	On Location	12 - Jul - 2010	08:15	MST
Job depth MD	4431. ft	Job Depth TVD	4323. ft	Job Started	12 - Jul - 2010	13:58	MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	12 - Jul - 2010	15:28	MST
Perforation Depth (MD)	From	To		Departed Loc	13 - Jul - 2010	17:30	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
Multiple Stage Cementer	Used			.				.	1602.		
Surface Open Hole				14.75				.	1602.	.	1571.
Surface Open Hole				14.75				1602.	4431.	1571.	4323.
Surface Casing	Unknown		10.75	9.95	45.5	BTC	J-55	.	4401.	.	4242.

Tools and Accessories

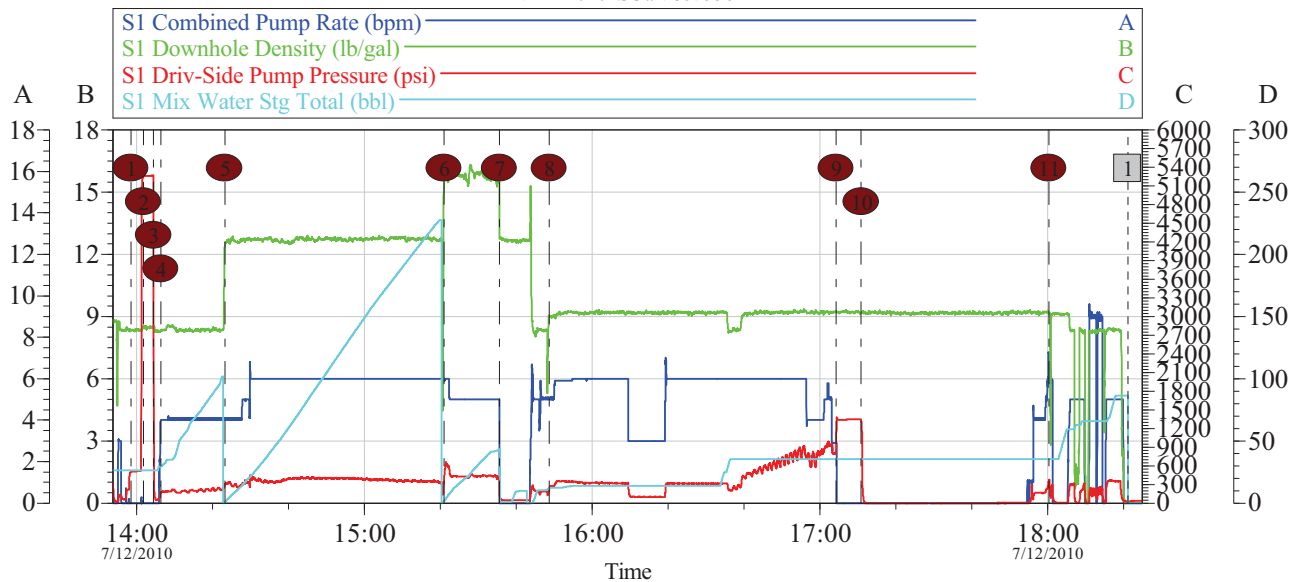
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
1	FreshWater Ahead				50.00	bbl	8.33	.0	.0	6.0			
2	First Stage Lead Cement	ECONOCEM (TM) SYSTEM (452992)			920.0	sacks	12.7	1.88	9.96	6.0	9.96		
0.6 %		HR-7 (100005055)											
9.957 Gal		FRESH WATER											
0.25 lbm		POLY-E-FLAKE (101216940)											
3	First Stage Tail Cement	HALCEM (TM) SYSTEM (452986)			350.0	sacks	15.8	1.15	4.95	6.0	4.95		
0.25 %		HR-800, 50 LB SACK (101619742)											
0.25 lbm		POLY-E-FLAKE (101216940)											
4.948 Gal		FRESH WATER											
4	Drilling Fluid / Mud				412.0	bbl	8.9	.0	.0	6.0			
Stage/Plug #: 2													
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom		
1	Freshwater Ahead				50.0	bbl	8.33	.0	.0	6.0			
2	Second Stage Lead Cement	ECONOCEM (TM) SYSTEM (452992)			840.0	sacks	12.7	1.87	9.98	6.0	9.98		
0.25 lbm		POLY-E-FLAKE (101216940)											
9.982 Gal		FRESH WATER											
3	Drilling Fluid / Mud				159.0	bbl	8.9	.0	.0	6.0			
4	TOP OUT	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)			40.0	sacks	15.8	1.17	5.02	2.0	5.02		
94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)											
2 %		CALCIUM CHLORIDE - HI TEST PELLET (100005053)											
5.019 Gal		FRESH WATER											
Calculated Values		Pressures			Volumes								
Displacement		Shut In: Instant				Lost Returns			Cement Slurry			Pad	
Top Of Cement	0 ft	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	80 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								

HALLIBURTON

Data Acquisition

XOM 2 STAGE SURFACE
7-12-2010 SO# 7487556



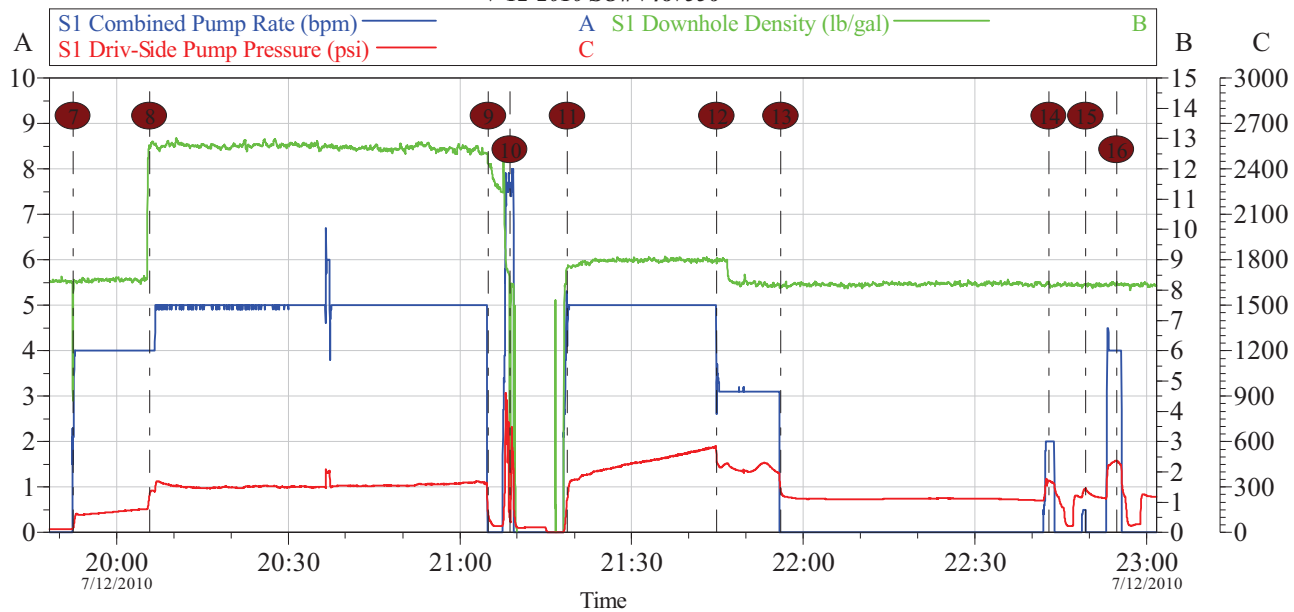
Intersection		Local Event Log		Intersection			
			SDPP		SDPP		
1	LOW PSI TEST	13:58:35	503.0	2	HIGH PSI TEST	14:01:50	5254
3	REALEASED PSI	14:04:33	5272	4	50 BBL H2O AHEAD	14:06:25	163.0
5	12.7 # LEAD CMT	14:23:17	290.0	6	TAIL CMT 15.8 #	15:21:03	364.0
7	SHUT DOWN DROP PLUG	15:35:39	154.3	8	START MUDD DISPL.	15:48:45	221.2
9	LAND THE PLUG	17:04:18	979.9	10	REALEASED PSI	17:10:56	1322
11	OPENED TOOL	18:00:21	375.1				

Customer: XOM	Job Date: 12-Jul-2010	Sales Order #: 7487556
Well Description: PCU 296-6A5	UWI:05-103-11478	

OptiCem v6.4.9
12-Jul-10 19:39

HALLIBURTON

XOM SECOND STAGE
7-12-2010 SO# 7487556



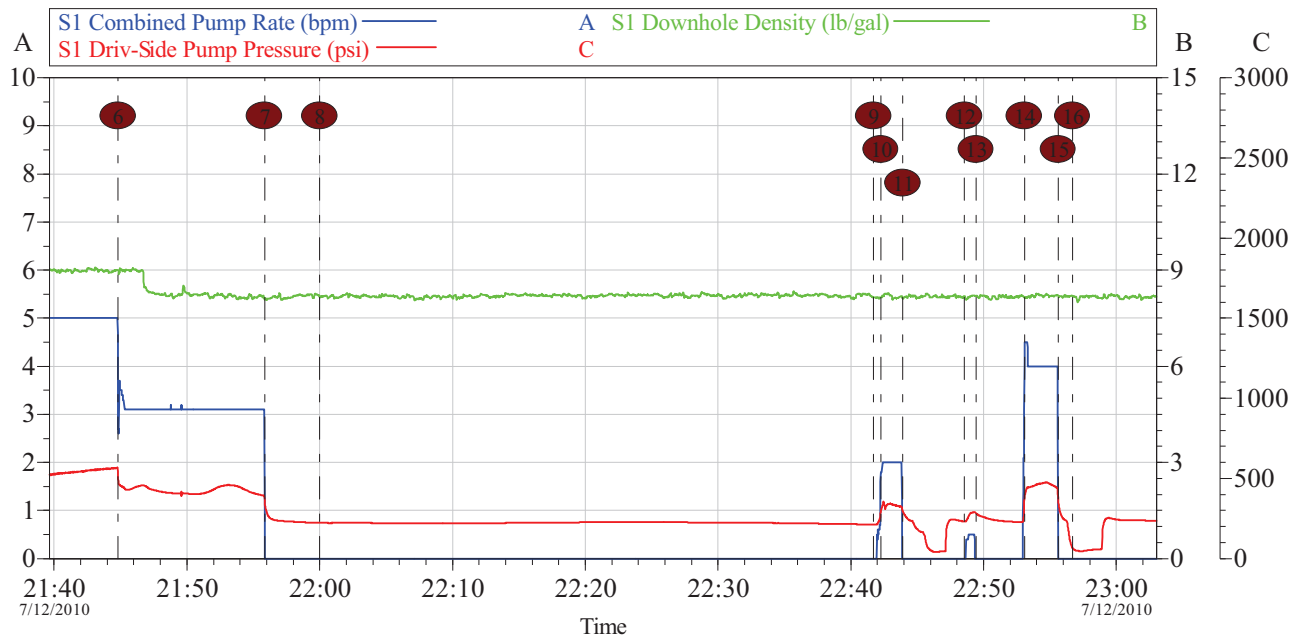
Local Event Log			
Intersection		Intersection	
7 50 BBLS FRESH H2O	19:52:26 29.29	8 BEGIN LEAD CMT	20:05:46 247.7
9 SHUT DOWN	21:04:57 125.1	10 WASH PUMPS & LINES	21:08:44 87.02
11 START DISPLACEMENT	21:18:48 230.3	12 SLOWED RATE	21:44:52 466.4
13 SHUT DOWN	21:56:04 276.1	14 PUMPED 3 BBLS	22:42:55 341.0
15 PUMPED .25 BBLS	22:49:20 291.8	16 PUMPED 10 BBLS	22:54:44 476.0

Customer:	Job Date: 13-Jul-2010	Sales Order #: 7487556
Well Description:	UWI:	

OptiCem v6.4.9
13-Jul-10 16:42

HALLIBURTON

XOM SECOND STAGE
7-12-2010 SO# 7487556



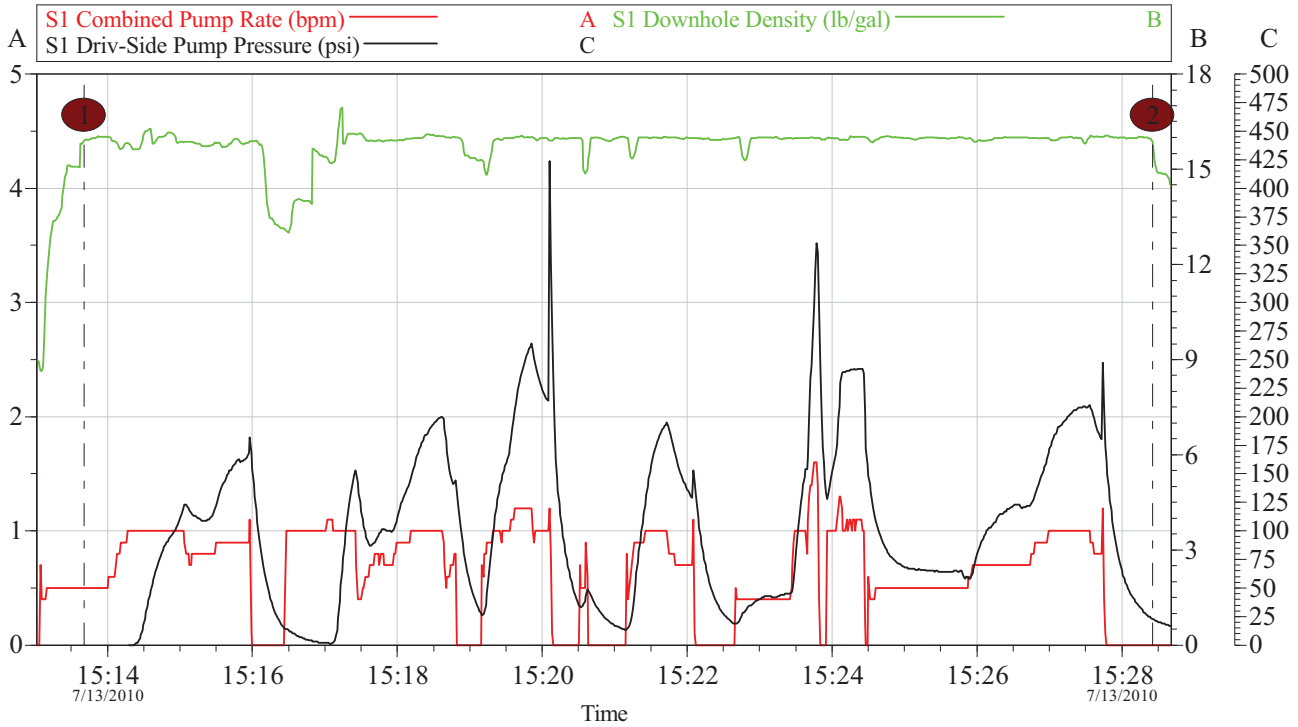
Local Event Log					
Intersection	SDPP	Intersection	SDPP	Intersection	SDPP
9	21:44:48 511.6	10	21:55:51 375.4	11	21:59:59 223.0
12	22:41:43 211.0	13	22:42:16 293.9	14	22:43:55 293.8
15	22:48:34 231.0	16	22:49:26 281.7	17	22:53:04 370.8
18	22:55:37 367.2	19	22:56:42 65.54		

Customer: XOM	Job Date: 12-Jul-2010	Sales Order #: 7487556
Well Description: 2 STAGE SURFACE	UWI: 05-103-11478	

OptiCem v6.4.9
 13-Jul-10 02:23

HALLIBURTON

XOM SURFACE "TOP OUT" PCU 296-6A5



Local Event Log					
Intersection		SDD	SDPP	Intersection	SDD SDPP
START TOP OUT	15:13:41	15.89	-21.00	END TOP OUT	15:28:25 15.87 23.01

Customer:	Job Date: 13-Jul-2010	Sales Order #: 7487556
Well Description:	UWI:	

OptiCem v6.4.9
13-Jul-10 16:09