
CHEVRON - MID-CONTINENT EBIZ

Emerald 77X

Casing Repair

~~Squeeze Perfs~~

23-May-2013

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 338668	Ship To #: 2999933	Quote #:	Sales Order #: 900459479
Customer: CHEVRON - MID-CONTINENT EBIZ	Customer Rep:		
Well Name: Emerald	Well #: 77X	API/UWI #: 05-103-08480	
Field:	City (SAP): RANGELY	County/Parish:	State:
Contractor: WORK OVER	Rig/Platform Name/Num: workover		
Job Purpose: Squeeze Perfs			
Well Type: Producing Well	Job Type: Squeeze Perfs		
Sales Person: SCHWARTZ, MICHAEL	Srv Supervisor: PORTER, MICHAEL	MBU ID Emp #: 491145	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEARING, KEN A	6.0	239372	EAVES, WESTON	6.0	539193	LAWTON, CURTIS Keith	6.0	492181
PORTER, MICHAEL James	6.0	491145	TONGI, SIONE Motumanu	6.0	528555			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616259	45 mile	10991611	45 mile	11019277	45 mile	11071461	45 mile
11189139	45 mile	11263211	45 mile	11338213	45 mile	11526494	45 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5-23-13	6	5						

TOTAL

Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To	Called Out	On Location	Job Started	Job Completed	Departed Loc
				BHST	2631. ft		1461		2631	23 - May - 2013	23 - May - 2013	23 - May - 2013	23 - May - 2013	23 - May - 2013
				105 degF										

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
7" Bridge Plug	Unknown							2818.	2819.		
7" Packer	Unknown							1300.	1301.		
8.75" Open Hole				8.75				760.	3500.		
7" Production Casing	Unknown		7.	6.366	23.			.	6624.		
9.625" Surface Casing	Unknown		9.625	8.921	36.			.	760.		
2.875" Tubing	Unknown		2.875	2.441	6.5			.	1300.		

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		1			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	Fresh Water		24.00	bbl	8.34	.0	.0	.0	
2	Squeeze Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	700.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							
3	Fresh Water		8.00	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	7.9	Shut In: Instant		Lost Returns		Cement Slurry	143.3	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	8.5	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	3	Mixing		3	Displacement	2	Avg. Job		2.5
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

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Customer: CHEVRON - MID-CONTINENT EBIZ				Customer Rep:			
Well Name: Emerald			Well #: 77X			API/UWI #: 05-103-08480	
Field:		City (SAP): RANGELY		County/Parish:		State:	
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: WORK OVER			Rig/Platform Name/Num: workover				
Job Purpose: Squeeze Perfs						Ticket Amount:	
Well Type: Producing Well			Job Type: Squeeze Perfs				
Sales Person: SCHWARTZ, MICHAEL			Srv Supervisor: PORTER, MICHAEL			MBU ID Emp #: 491145	

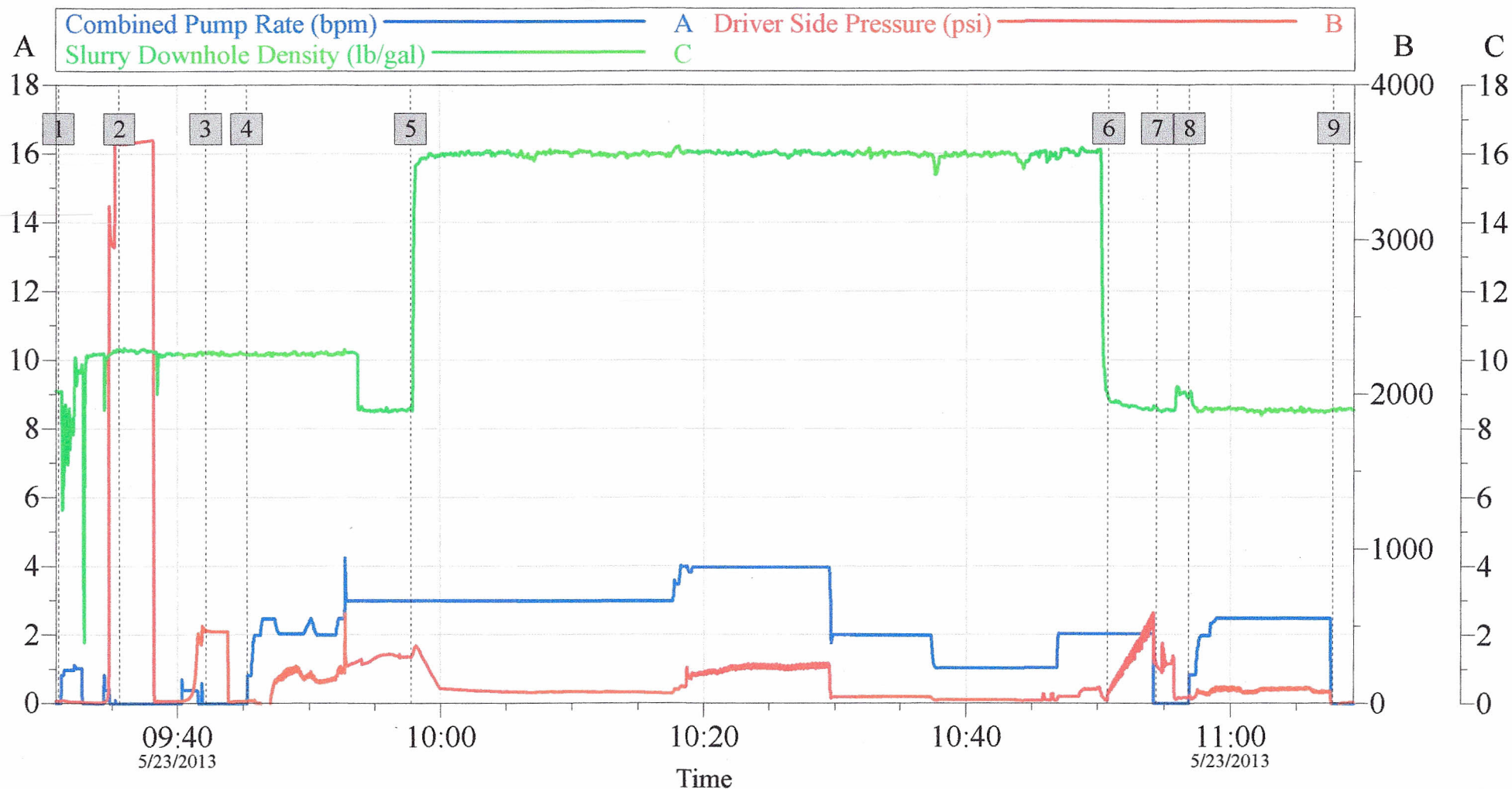
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/23/2013 03:00							CALL OUT HES CREW
Pre-Convoy Safety Meeting	05/23/2013 05:00							HES CREW HOLDS PRE-CONVOY SAFETY MEETING, DISCUSSED HAZARDS OF DRIVING TO LOCATION
Depart from Service Center or Other Site	05/23/2013 05:30							CREW LEAVES THE YARD
Arrive At Loc	05/23/2013 07:00							CREW ARRIVES AT LOCATION
Assessment Of Location Safety Meeting	05/23/2013 07:15							SITE ASSESSMENT IS CONDUCTED. DISCUSSED HAZARDS ON LOCATION AND WHERE TO SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	05/23/2013 07:30							CREW HOLDS PRE-RIG UP SAFETY MEETING WITH RIG CREW. DISCUSSED WHERE LINES WILL BE TIED IN AND HAZARDS OF RIGGING UP
Rig-Up Equipment	05/23/2013 07:45							CREW RIGS UP EQUIPMENT
Rig-Up Completed	05/23/2013 08:45							RIG UP IS COMPLETED
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pre-Job Safety Meeting	05/23/2013 09:00							PRE-JOB SAFETY MEETING WITH HES CREW AND EVERYONE ELSE ON LOCATION. DISCUSSED HAZARDS OF THE JOB AND PRESSURE TESTING PROCEDURE
Other	05/23/2013 09:30							FILL LINES TO PRESSURE TEST
Pressure Test	05/23/2013 09:35							PRESSURE TEST HES LINES TO 3500 PSI. HELD TEST FOR 2 MIN
Pressure Up	05/23/2013 09:42						470.0	PRESSURE UP THE BACKSIDE TO 470 PSI
Injection Test	05/23/2013 09:45		3	25	25			PUMPED WATER TO ESTABLISH INJECTION RATE.
Other	05/23/2013 09:50							FLUID CIRCULATING BACK TO THE PIT 10 BBLs INTO PUMPING
Pump Cement	05/23/2013 09:57		3	145	170		150.0	PUMP CEMENT 700 SACKS 15.8# Y:1.15 W:4.99
Pump Displacement	05/23/2013 10:50		2	8	178		560.0	PUMP WATER DISPLACEMENT. PUMPED .5 BBLs EXTRA AS PER COMPANY MAN
Shutdown	05/23/2013 10:54							SHUTDOWN TO STING OUT OF RETAINER
Reverse Circ Well	05/23/2013 10:56		2	25	203		100.0	REVERSE CIRCULATE WELL WITH WATER. GOT ABOUT 1/10 OF A BBL OF CEMENT BACK TO THE PIT
Shutdown	05/23/2013 11:07							FINISHED REVERSE CIRCULATING WELL
Pre-Rig Down Safety Meeting	05/23/2013 11:30							CREW HOLDS PRE-RIG DOWN SAFETY MEETING. DISCUSSED HAZARDS OF RIGGING DOWN
Rig-Down Equipment	05/23/2013 11:45							CREW RIGS DOWN EQUIPMENT
Rig-Down Completed	05/23/2013 12:30							HES CREW FINISHES RIGGING DOWN EQUIPMENT
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pre-Convoy Safety Meeting	05/23/2013 12:45							PRE-CONVOY SAFETY MEETING. HAZARDS OF DRIVING BACK TO THE YARD WERE DISCUSSED
Depart Location for Service Center or Other Site	05/23/2013 13:00							CREW LEAVES LOCATION

CHEVRON EMERALD 77X

SQUEEZE MAY-23-2013



Global Event Log

1	Fill Lines	09:30:56	2	Pressure Test	09:35:35	3	Pressure Up Backside	09:42:12
4	Injection Rate	09:45:18	5	Pump Cement	09:57:45	6	Pump Displacement	10:50:44
7	Shutdown	10:54:25	8	Reverse Circ Well	10:56:51	9	Shutdown	11:07:44

Customer: CHEVRON
Well Description: EMERALD 77X
SUPERVISOR MIKE PORTER

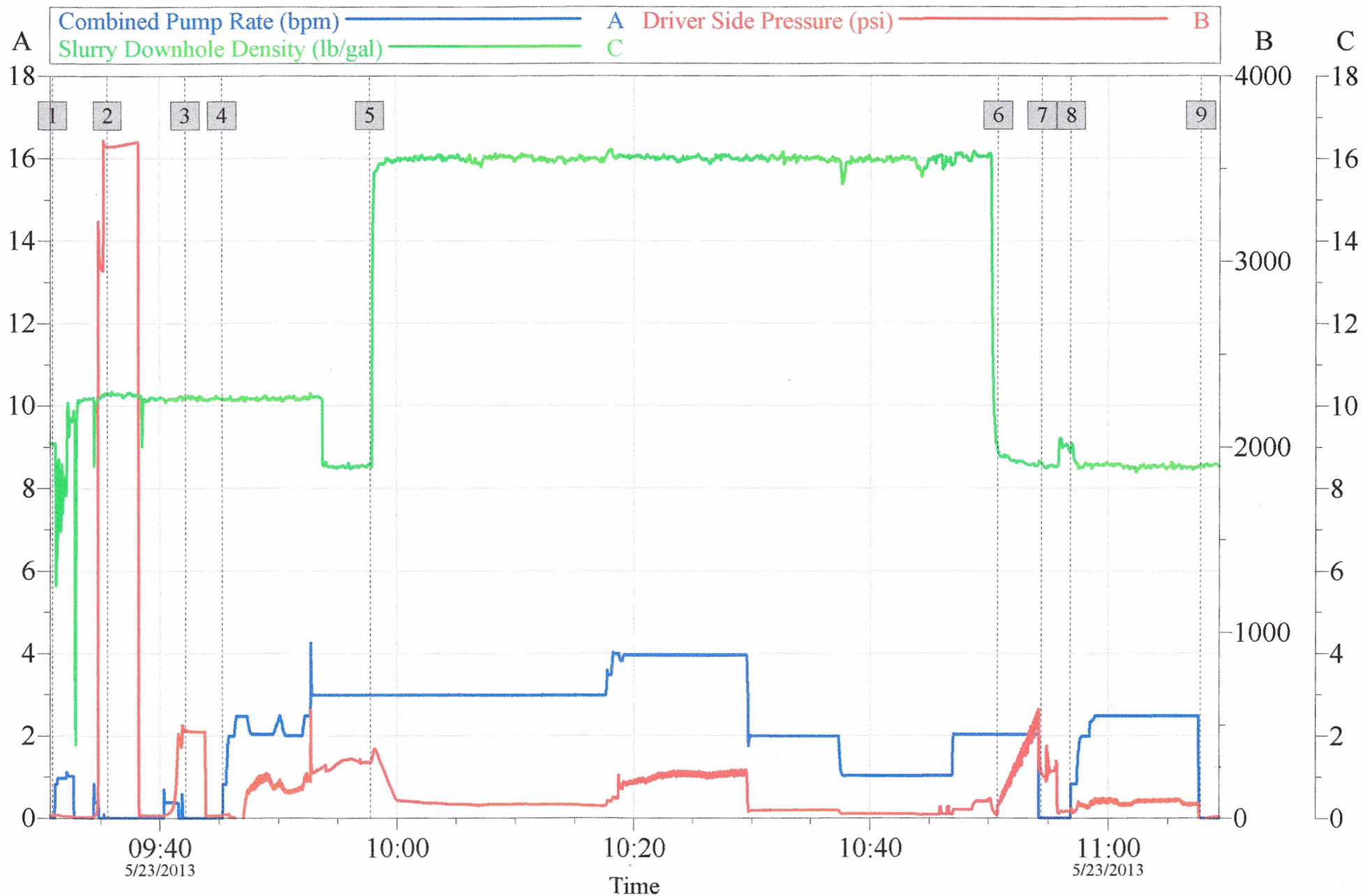
Job Date: 23-May-2013
UWI:
OPERATOR CURTIS LAWTON

Sales Order #: 900459479
ELITE 11189139
SERVICE LEADER KEN DEARING

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23-May-13 12:05

CHEVRON EMERALD 77X

SQUEEZE MAY-23-2013



Customer: CHEVRON
 Well Description: EMERALD 77X
 SUPERVISOR MIKE PORTER

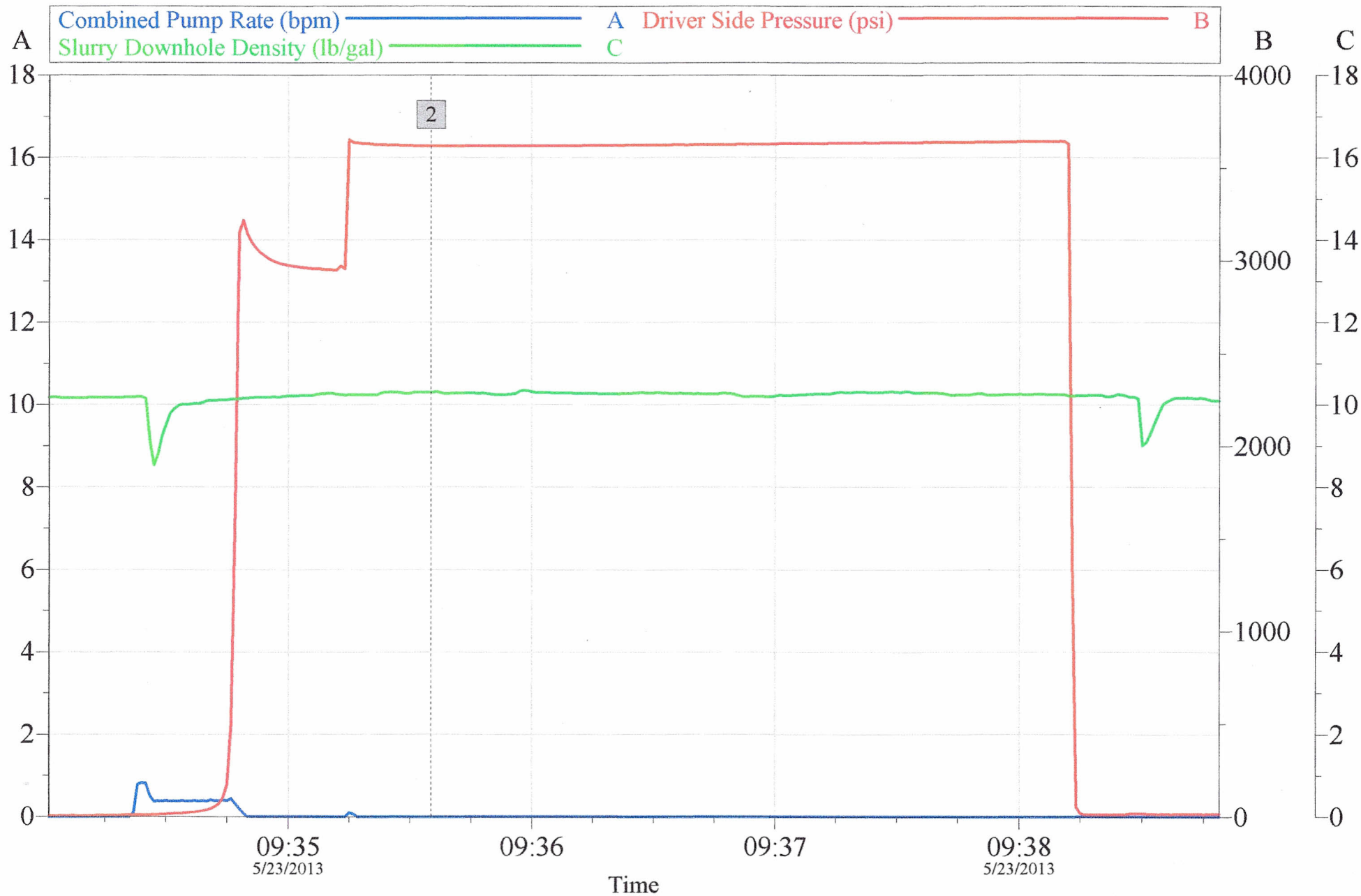
Job Date: 23-May-2013
 UWI:
 OPERATOR CURTIS LAWTON

Sales Order #: 900459479
 ELITE 11189139
 SERVICE LEADER KEN DEARING

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 23-May-13 12:06

CHEVRON EMERALD 77X

SQUEEZE MAY-23-2013



Customer: CHEVRON
 Well Description: EMERALD 77X
 SUPERVISOR MIKE PORTER

Job Date: 23-May-2013
 UWI:
 OPERATOR CURTIS LAWTON

Sales Order #: 900459479
 ELITE 11189139
 SERVICE LEADER KEN DEARING

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