



02054405

Andrews, David

From: Andrews, David
Sent: Thursday, June 24, 2010 8:22 AM
To: 'Tannehill, Julie'
Cc: Foreman, Jay; Harris, Howard; Harris, Steven
Subject: RE: Low TOC in Rulison Field

Julie,

Thanks for the update, and please proceed with completions on your MV4-MV6 stages.

Dave

From: Tannehill, Julie [mailto:Julie.Tannehill@Williams.com]
Sent: Tuesday, June 22, 2010 2:16 PM
To: Andrews, David
Cc: Foreman, Jay; Harris, Howard; Harris, Steven
Subject: RE: Low TOC in Rulison Field

Hi Dave,

We recently performed the remedial work on the RWF 312-19. Here, we planned on a foam cement job as our first option for a cement squeeze. We pumped the job according to design with the exception that we still didn't get circulation to surface on the remedial cement squeeze.

After much review with the technical experts, I believe our new TOC post foam cement is at 4710'. Top of MVRD is at 5035'. Top perf is at 6,404'. I've posted the Cast-M log (Halliburton product) on our FTP site. You'll also find the original CBL along with the post job reports from our cement jobs here.

We're currently drilling out the retainer and cement. Our plan is to move forward with operations and frac the remaining zones in the well being the MV4-MV6 stages. Please review and advise if this plan is acceptable.

Regards,

Julie Tannehill

From: Andrews, David [mailto:David.Andrews@state.co.us]
Sent: Sunday, December 06, 2009 6:12 PM
To: Tannehill, Julie
Cc: Odegard, Chad ; Foreman, Jay ; Yokley, Joe ; Brady, Scott (Lowell); Davis, Gregory ; Harris, Howard ; Harris, Steven
Subject: RE: Low TOC in Rulison Field

Julie,

This plan is acceptable. Please report any anomalous bradenhead pressures during your MV1 and MV2 completions, as required by Rule 341.

Thanks,

David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Colorado

State of Colorado
Oil and Gas Conservation Commission
707 Wapiti Court, Suite 204
Rifle, Colorado 81650
Office Phone: (970) 625-2497 Ext. 1
Cell Phone: (970) 456-5262
Fax: (970) 625-5682
E-mail: David.Andrews@state.co.us
Website: <http://www.colorado.gov/cogcc>

From: Tannehill, Julie [mailto:Julie.Tannehill@Williams.com]
Sent: Friday, December 04, 2009 3:56 PM
To: Andrews, David
Cc: Odegard, Chad ; Foreman, Jay ; Yokley, Joe ; Brady, Scott (Lowell); Davis, Gregory ; Harris, Howard ; Harris, Steven
Subject: Low TOC in Rulison Field

Dear Mr. Andrews,

We have low cement tops (TOC) on one well in the Rulison field. Details are listed below.
This email is to inform you that:

- This well is a new drill and initial completion operations will commence early next year:
- Cement top on the production casing **did** cover the geologist's pick for MesaVerde top
- Cement tops **did not** cover the geologist's pick for top of gas (KMVGAS) in RWF 312-19

Our completion plan with regard to the low TOCs is to:

- Monitor surface casing pressure during completion process.
- Remediate the RWF 312-19 with a cement squeeze prior to MV3 stage

Sec	Tw	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top Perf	
19	6S	94W	RWF 312-19	05045178060000	7030	5035	2195	6404	

*Note: I'm assuming 200' above MVRD for cement coverage.

In summary, we do plan to remediate the RWF 312-19 in order to achieve 200' of good cement above top perf. Please advise if this plan is acceptable.

Regards,

Julie Tannehill

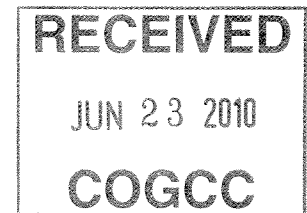
Completions Engineer
Piceance Valley Team
1515 Arapahoe, Tower 3, Suite 1000
Denver, CO 80202
Office: 303.606.4295
Cell: 720.375.2192

HALLIBURTON

WILLIAMS PRODUCTION RMT INC EBUSINE

**KP 312-19
KOKOPELLI
Garfield County , Colorado**

Foam Re-Cement
15-Jun-2010



Post Job Report

HALLIBURTON

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JUN 23 2010

COGCC

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2738685		Quote #:		Sales Order #: 7440116							
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE				Customer Rep: Dickerson, Kesterel									
Well Name: RWF		Well #: 312-19		API/UWI #: 05-045-17806									
Field:		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado							
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.091 secs.				Long: W 107.938 deg. OR W -108 deg. 3 min. 44.147 secs.									
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER 1											
Job Purpose: Squeeze Open Hole													
Well Type: Development Well				Job Type: Squeeze Open Hole									
Sales Person: KOHL, KYLE		Srvc Supervisor: REEVES, BRANDON		MBU ID Emp #: 287883									
Job Personnel													
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #					
ANDREWS, ANTHONY Michael	13	321604	BRUN, JUSTIN M	13	459269	CHASTAIN, DERICK Allan	13	455848					
DYK, KORY Stephen	13	421946	GREGORY, JON D	13	439067	HAMMOND, DENNIS C	13	287025					
HAYES, DIRK A	3	336768	REEVES, BRANDON W	13	287883	TALAROVICH, JEREMY Jay	13	425449					
Equipment													
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way						
10011429	60 mile	10567589C	60 mile	10867304	60 mile	10995027	60 mile						
10998054	60 mile	11164590	60 mile										
Job Hours													
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours					
06/16/2010	13	10.5											
TOTAL		Total is the sum of each column separately											
Job				Job Times									
Formation Name				Date		Time		Time Zone					
Formation Depth (MD)		Top Bottom		Called Out		16 - Jun - 2010		00:50 MST					
Form Type		BHST		On Location		16 - Jun - 2010		04:20 MST					
Job depth MD		6558. ft		Job Depth TVD		6558. ft		Job Started 16 - Jun - 2010 08:13 MST					
Water Depth		Wk Ht Above Floor		3. ft		Job Completed		16 - Jun - 2010 17:30 MST					
Perforation Depth (MD)		From To		Departed Loc		16 - Jun - 2010		00:00 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		
Sales/Rental/3 rd Party (HES)													
Description						Qty	Qty uom	Depth	Supplier				
FOAMER 760, TOTETANK						116	GAL						
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	Fresh Water		5	bbl	8.33	.0	.0	.0		
2	Mud Flush III	MUD FLUSH III - SBM (528788)	20	bbl	8.4	.0	.0	.0		
3	Fresh Water		5	bbl	8.34	.0	.0	.0		
4	Lead Cement	HALSEAL (TM) SYSTEM (452987)	385	sacks	14.3	1.21	5.27		5.27	
	5.27 Gal	FRESH WATER								
5	Tail Cement	SQUEEZECM (TM) SYSTEM (452971)	50	sacks	17.	.99	3.76		3.76	
	3.76 Gal	FRESH WATER								
6	Displacement		25.6	bbl	8.33	.0	.0	.0		
Calculated Values		Pressures		Volumes						
Displacement	25.4	Shut In: Instant		Lost Returns		Cement Slurry	91.8	Pad		
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	25.6	Treatment		
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job		
Rates										
Circulating		Mixing	3	Displacement	.5	Avg. Job				
Cement Left In Pipe	Amount	142 ft	Reason	CASING BETWEEN THE PERFS. AND RETAINER						
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						

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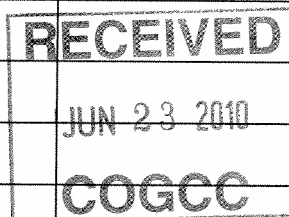
COGCC

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2738685		Quote #:		Sales Order #: 7440116	
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE				Customer Rep: Dickerson, Kesterel			
Well Name: RWF			Well #: 312-19		API/UWI #: 05-045-17806		
Field:		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.091 secs.				Long: W 107.938 deg. OR W -108 deg. 3 min. 44.147 secs.			
Contractor: WORKOVER			Rig/Platform Name/Num: WORKOVER 1				
Job Purpose: Squeeze Open Hole						Ticket Amount:	
Well Type: Development Well			Job Type: Squeeze Open Hole				
Sales Person: KOHL, KYLE			Srv Supervisor: REEVES, BRANDON			MBU ID Emp #: 287883	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/15/2010 00:50							
Pre-Convoy Safety Meeting	06/16/2010 02:50							
Arrive at Location from Service Center	06/16/2010 04:20							
Assessment Of Location Safety Meeting	06/16/2010 04:40							
Other	06/16/2010 05:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	06/16/2010 05:30							
Rig-Up Equipment	06/16/2010 05:40							
Pre-Job Safety Meeting	06/16/2010 08:00							
Start Job	06/16/2010 08:13							RETAINER SET AT 6558' - PERFS. AT 6700' - 2 3/8" TUBING - 4 1/2" 11.6# CASING.
Test Lines	06/16/2010 08:49						5400.0	
Injection Test	06/16/2010 08:59		3.5	12		3300.0		FRESH WATER
ISIP	06/16/2010 09:05					1390.0		
Pump Well Fluid	06/16/2010 09:08		3.5	97		3300.0		10.5 PPG. MUD. FOAMES THE MUD INTERMENTANTLY, 50 BBLs. AT A TIME.
Shutdown	06/16/2010 09:39							
Resume	06/16/2010 11:17		3	293		3700.0		RESUME PUMPING 10.5 PPG. MUD
Shutdown	06/16/2010 13:00							

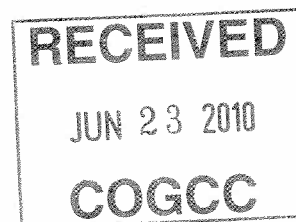
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	06/16/2010 13:07		3	5		2590.0		FRESH WATER SPACER
Pump Spacer 2	06/16/2010 13:09		3	20		2900.0		MUDFLUSH SPACER
Pump Spacer 1	06/16/2010 13:16		3	5		3600.0		FRESH WATER SPACER
Pump Foam Cement	06/16/2010 13:18		3	83		3910.0		385 SKS. @ 14.3 # 1.21 YIELD 5.27 WRQ. FOAMED THE LEAD CEMENT TO 10.5 PPG.
Pump Tail Cement	06/16/2010 13:44		3	8.8		2530.0		50 SKS. @ 17.0# .99 YIELD 3.76 WRQ.
Pump Displacement	06/16/2010 13:50		0.5			1690.0		FRESH WATER DISPLACEMENT
Shutdown	06/16/2010 14:36			24				
Pump Displacement	06/16/2010 14:46		0.3					
Shutdown	06/16/2010 14:47			24.25		1610.0		
Pump Displacement	06/16/2010 15:01		0.3					
Shutdown	06/16/2010 15:02			24.5		1525.0		
Pump Displacement	06/16/2010 15:17		0.3					
Shutdown	06/16/2010 15:18			24.75		1470.0		
Pump Displacement	06/16/2010 15:34		0.3					
Shutdown	06/16/2010 15:35			25		1460.0		
Pump Displacement	06/16/2010 16:04		0.3					
Shutdown	06/16/2010 16:05			25.25		1500.0		
Pump Displacement	06/16/2010 16:33		0.3					
Shutdown	06/16/2010 16:35			25.5		1460.0		
Pump Displacement	06/16/2010 17:15		0.3					
Shutdown	06/16/2010 17:16			25.6		1500.0		
Other	06/16/2010 17:18							STING OUT OF THE RETAINER



HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Reverse Circ Well	06/16/2010 17:19							RIG REVERSE CIRCUALTED THE WELL. REVERSED OUT 1 BBL. OF CEMENT
End Job	06/16/2010 17:30							
Rig-Down Equipment	06/16/2010 17:40							THANKS FOR USING HALLIBURTON. BRANDON REEVES AND CREW



Sold To # : 300721

Ship To # :2738685

Quote # :

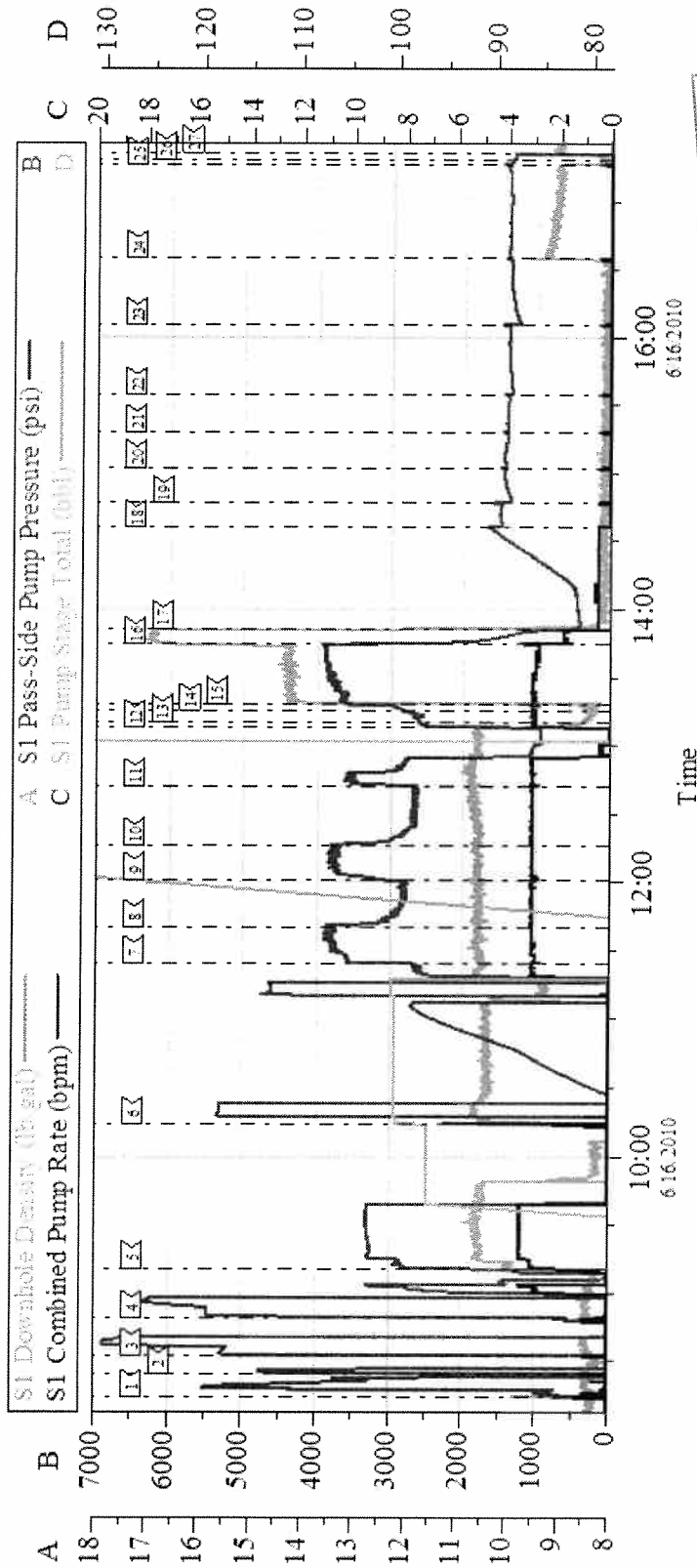
Sales Order # : 7440116

SUMMIT Version: 7.20.130

Wednesday, June 16, 2010 09:35:00

Williams

Foam Re-Cement



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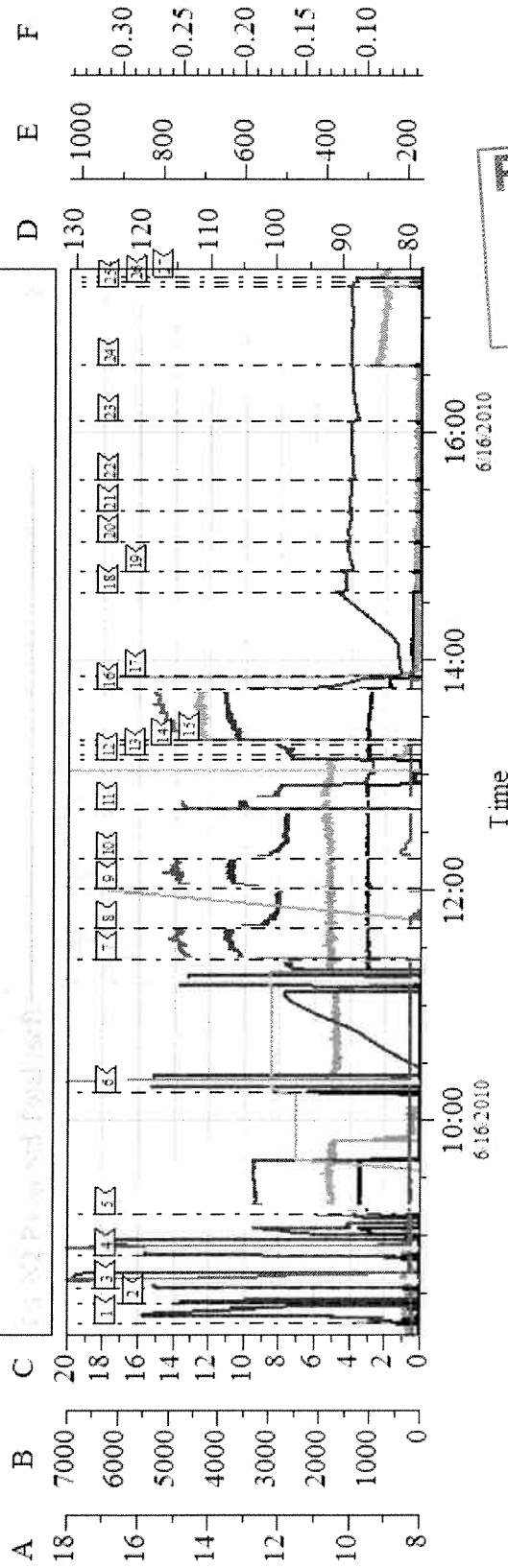
Local Event Log					
1	Pressure Test Cement	08:14:27	2	Full Lines	08:24:33
4	Pressure Test	08:48:09	5	Pressure Test	09:10:58
7	Pump Foam Mud	11:24:24	8	Pump Mud	11:40:14
10	Pump Mud	12:16:22	11	Pump Foam Mud	12:40:17
13	Pump Mud Flash	13:10:24	14	Pump Water	13:45:27
16	Pump Squeeze Cement	13:44:31	17	Pump Displacement	13:51:40
19	Hesitate	14:46:39	20	Hesitate	15:02:33
21	Hesitate	15:34:26	22	Hesitate	16:05:23
23	Hesitate	17:16:26	24	Rig Pump Reverse	17:18:38
25	Hesitate		26	End Job	17:21:39

Customer: Williams	Job Date: 16-Jun-2010	Sales Order #: 7440116
Well Description: RWF 312-19	Job Type: Foam Squeeze	ADC Used: Yes
Company Rep: K. Dickerson	Cement Supervisor: Brandon Reeves	Elite #: 3

OptiCen v6.4.7
16-Jun-10 17:37

Williams Foam Re-Cement

S1 Downhole Density (lb/gal) _____
 S1 Pass-Side Pump Pressure (psi) _____
 S1 Combined Pump Rate (bpm) _____
 S1 Pump Stage Total (bbl) _____
 U1 N2 Pump Pressure (psi) _____
 S1 N2 Pump Total (bbl) _____



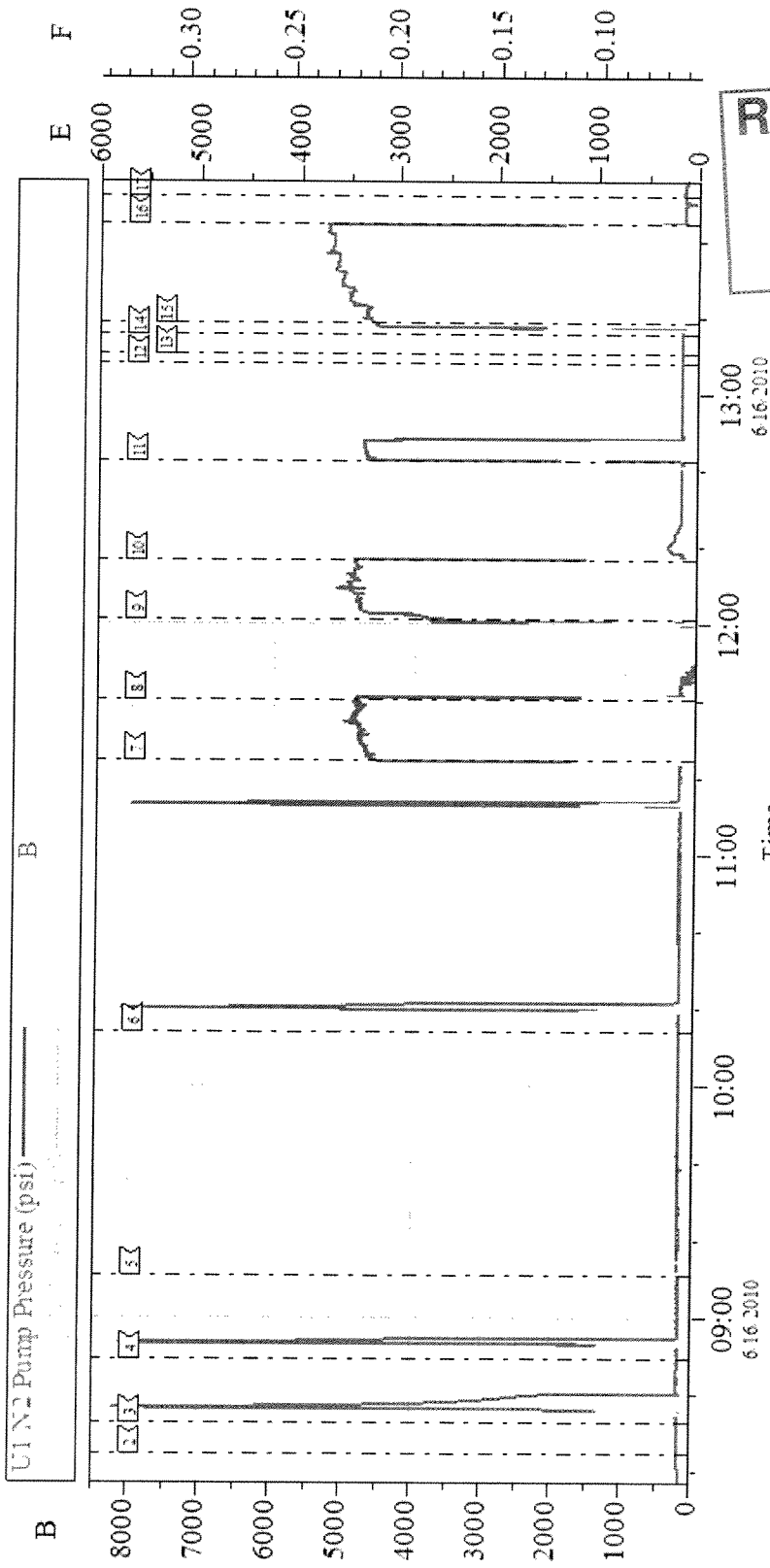
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 COGCC

1	Pressure Test Cement	08:14:27	2	Pressure Test Cement	08:32:29
4	Pressure Test	08:40:09	5	Pump Mud	10:14:00
7	Pump Foam Mud	11:24:24	8	Pump Foam Mud	12:01:08
10	Pump Mud	12:16:22	11	Pump Water	13:07:53
13	Pump Mud Flush	13:10:24	14	Pump Foam Cement	13:18:26
16	Pump Squeeze Cement	13:44:31	17	Hesitate	14:35:55
19	Hesitate	14:46:39	20	Hesitate	15:18:09
22	Hesitate	15:34:26	23	Hesitate	16:35:01
25	Hesitate	17:16:26	26	Rig Pump Reverse	17:18:38
			27	End Job	17:21:39

Customer: Williams	Job Date: 16-Jun-2010	Sales Order #: 7440116
Well Description: RWF 312-19	Job Type: Foam Squeeze	ADC Used: Yes
Company Rep: K. Dickerson	Cement Supervisor: Brandon Reeves	Elite #: 3

OptiCen v6.4.7
 16-Jun-10 17:38

Williams Foam Re-Cement



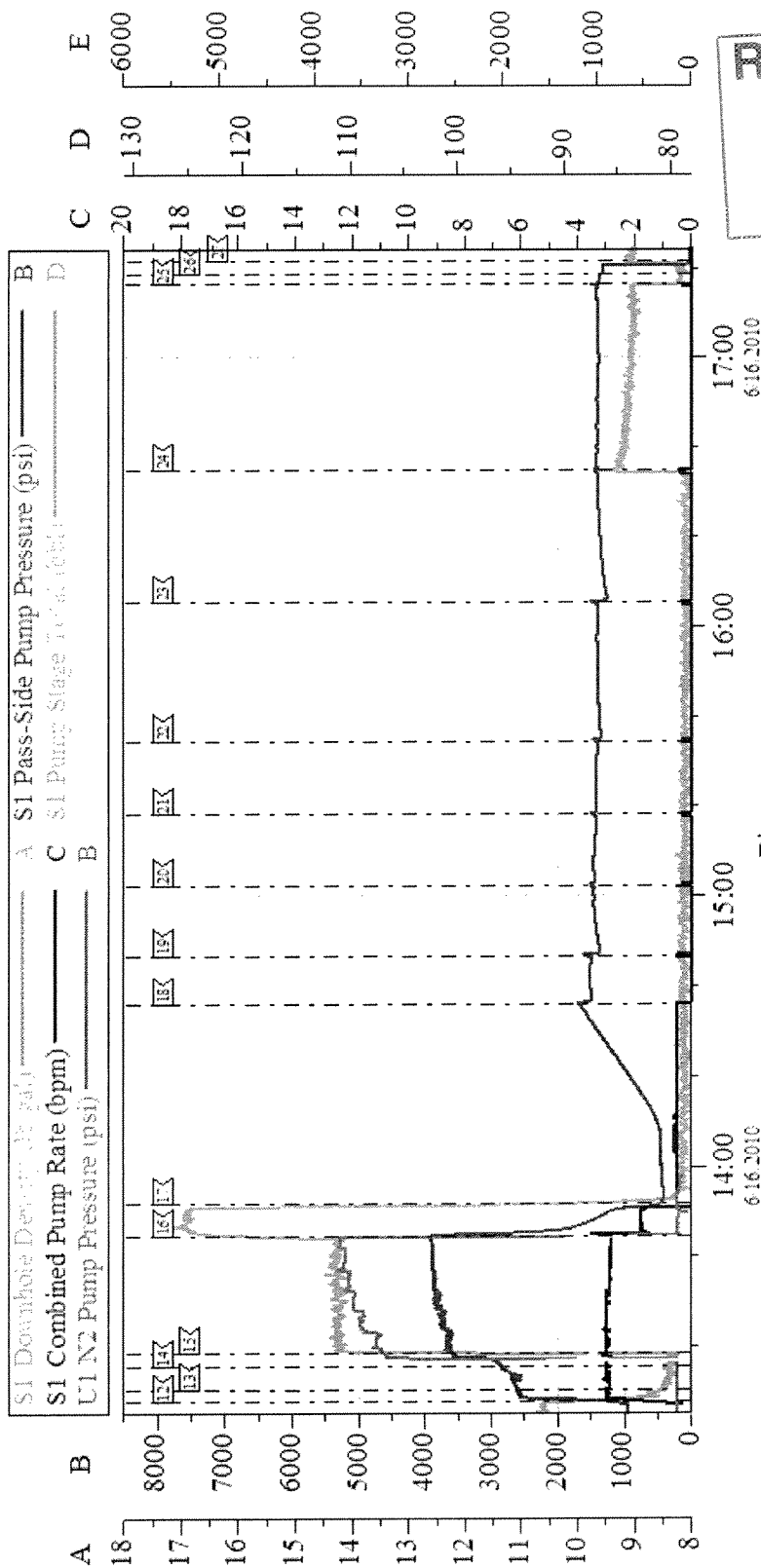
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Customer: Williams	Job Date: 16-Jun-2010	Sales Order #: 7440116
Well Description: RWF 312-19	Job Type: Foam Squeeze	ADC Used: Yes
Company Rep: K. Dickerson	Cement Supervisor: Brandon Reeves	Elite #: 3

OptiCam v6.4.7
16-Jun-10 17:40

Williams

Foam Re-Cement



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Local Event Log	
13:07:33	Pump Water
13:10:24	Pump Mud Flush
13:10:24	Pump Water
13:18:56	Pump Foam Cement
13:44:51	Pump Squeeze Cement
13:44:51	Pump Displacement
14:35:55	Hesitate
14:46:39	Hesitate
15:18:09	Hesitate
15:34:26	Hesitate
16:35:01	Hesitate
17:16:26	Rig Pump Reverse
17:21:39	End Job

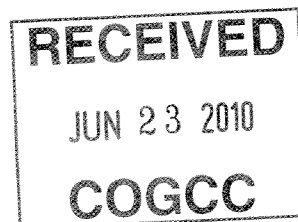
Customer: Williams	Job Date: 16-Jun-2010	Sales Order #: 7440116
Well Description: RWF 312-19	Job Type: Foam Squeeze	ADC Used: Yes
Company Rep: K. Dickerson	Cement Supervisor: Brandon Reeves	Elite #: 3

OpnCem v6.4.7
16-Jun-10 17:43

HALLIBURTON

WILLIAMS PRODUCTION RMT INC EBUSINE

**RWF 312-19
RULISON
Garfield County , Colorado**



Cement Production Casing

05-Sep-2009

Post Job Report

HALLIBURTON

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JUN 23 2010

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2738685	Quote #:	Sales Order #: 6825006
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE	Customer Rep: TURNER, JOHN		
Well Name: RWF	Well #: 312-19	API/UWI #: 05-045-17806	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.091 secs.	Long: W 107.938 deg. OR W -108 deg. 3 min. 44.147 secs.		
Contractor: CYCLONE 14	Rig/Platform Name/Num: CYCLONE 14		
Job Purpose: Cement Production Casing			
Well Type: Development Well	Job Type: Cement Production Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: NELSON, RYAN	MBU ID Emp #: 386514	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CLARKE, GERALD C	17	441763	HOEFER, FREEMAN Dennis	17	369666	NELSON, RYAN Cody	17	386514
REEVES, BRANDON W	17	287883	YOUNG, JEREMY R	17	418013			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10053558	60 mile	10565341	60 mile	10567589C	60 mile	10724583	60 mile
10951245	60 mile	10995027	60 mile	11381461	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-4-09	13	1	9-5-09	6	3			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom		Called Out	04 - Sep - 2009	08:30	MST
Form Type	BHST			On Location	04 - Sep - 2009	13:00	MST
Job depth MD	8648. ft	Job Depth TVD	8648. ft	Job Started	05 - Sep - 2009	03:00	MST
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	05 - Sep - 2009	04:30	MST
Perforation Depth (MD)	From	To		Departed Loc	05 - Sep - 2009	06:00	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
8 3/4 Open Hole Section				8.75				1158.	8648.		
4 1/2 Production Casing			4.5	4.	11.6		I-80	0	8625.5		
9 5/8 Surface Casing			9.625	9.001	32.3			0	1158.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

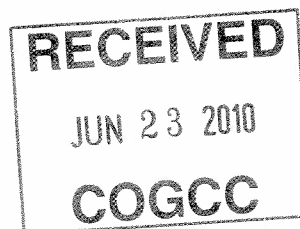
Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	4.5	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4.5	1	HES
Stage Tool										Centralizers			

HALLIBURTON

Cementing Job Summary

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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
1	Water Spacer		10.00	bbl	8.4	.0	.0	.0			
2	Tail Cement	VARICEM (TM) CEMENT (452009)	1225.0	sacks	14.2	1.33	5.86				
3	KCL Displacement Fluid		133.30	bbl	8.4	.0	.0	.0			
Calculated Values			Pressures			Volumes					
Displacement	133.3	Shut In: Instant		Lost Returns	Yes	Cement Slurry	290.2	Pad			
Top Of Cement		5 Min		Cement Returns		Actual Displacement	133.3	Treatment			
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job			
Rates											
Circulating		Mixing	8	Displacement	10	Avg. Job	8				
Cement Left In Pipe	Amount	24.22 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							



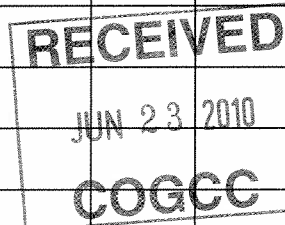
HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2738685	Quote #:	Sales Order #: 6825006
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		Customer Rep: TURNER, JOHN	
Well Name: RWF	Well #: 312-19	API/UWI #: 05-045-17806	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.091 secs.		Long: W 107.938 deg. OR W -108 deg. 3 min. 44.147 secs.	
Contractor: CYCLONE 14		Rig/Platform Name/Num: CYCLONE 14	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: NELSON, RYAN	MBU ID Emp #: 386514

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/04/2009 09:00							
Arrive At Loc	09/04/2009 13:00							Rig running casing
Pre-Rig Up Safety Meeting	09/04/2009 17:30							
Rig-Up Equipment	09/04/2009 17:45							
Pre-Job Safety Meeting	09/05/2009 02:30							
Start Job	09/05/2009 03:06							TD-8648' TP-8625.5' SJ-24.22' HOLE-8 3/4" MUD 13.2 PPG SURFACE @ 1158'
Other	09/05/2009 03:07			1			330.0	Fill Lines
Test Lines	09/05/2009 03:09						4580.0	
Pump Spacer 1	09/05/2009 03:14		8	10			1220.0	Fresh water
Pump Tail Cement	09/05/2009 03:21		8	290.2			1340.0	1225 sks 14.2 ppg 1.33 yield 5.86 gal/sk
Shutdown	09/05/2009 03:57							
Clean Lines	09/05/2009 03:58							
Drop Top Plug	09/05/2009 04:02							
Pump Displacement	09/05/2009 04:03		10	133.3			2517.0	Fresh water, 1 bag KCL per 10 bbl 1 gal MMCR 3 # BE-6
Slow Rate	09/05/2009 04:16		4	120			2470.0	
Bump Plug	09/05/2009 04:19		4	133.3			3070.0	



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Quote #:

Sales Order #:

6825006

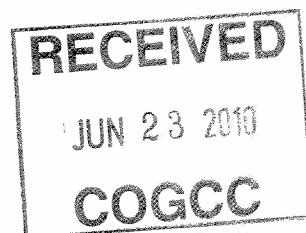
SUMMIT Version: 7.20.130

Saturday, September 05, 2009 04:49:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	09/05/2009 04:24							Floats holding
End Job	09/05/2009 04:30							Well lost 850 bbl of mud prior to the job. No returns throughout the job. Pipe static during job. Thank you for using Halliburton-Ryan Nelson & Crew



Sold To # : 300721

Ship To # : 2738685

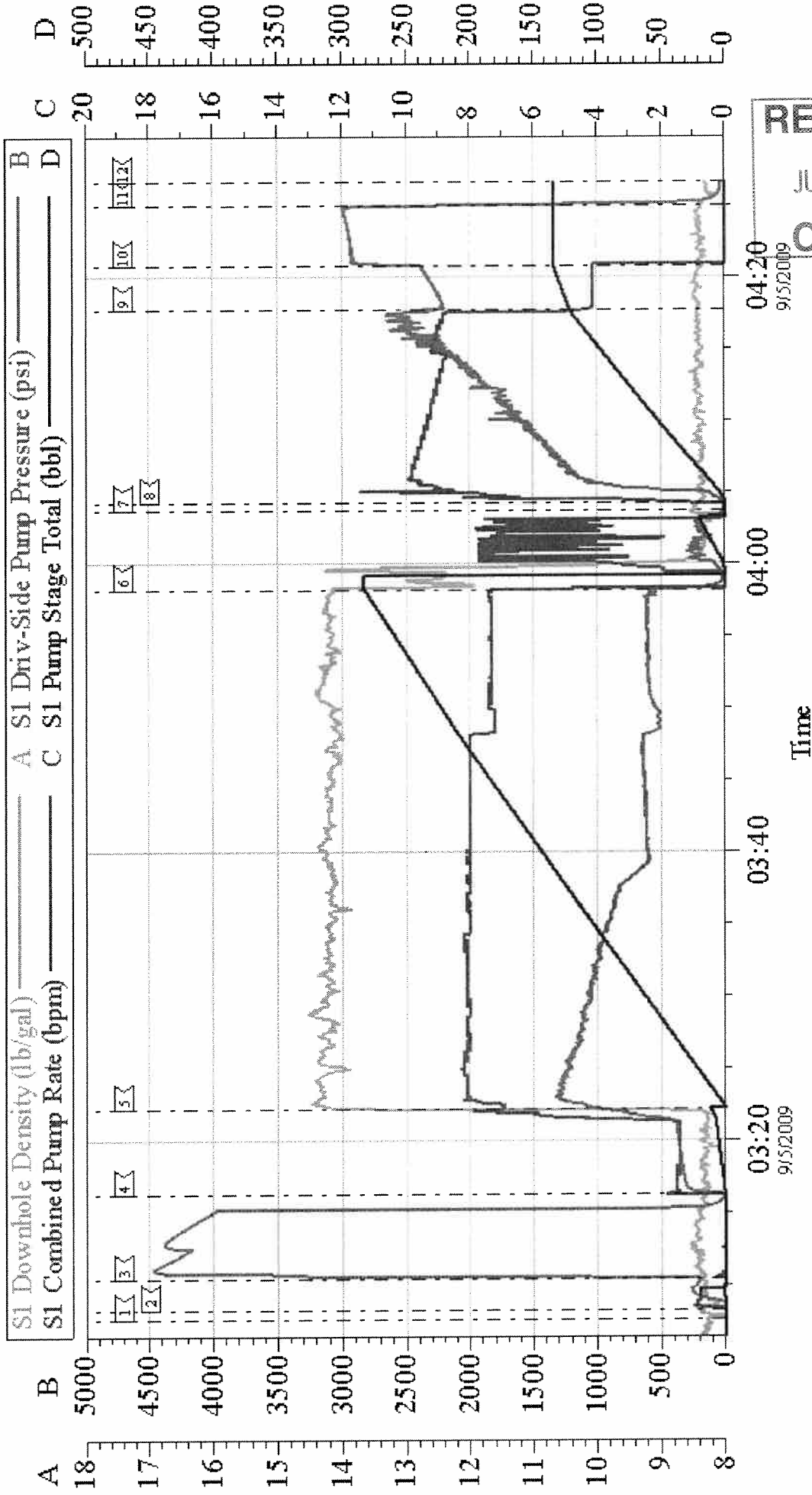
Quote # :

Sales Order # : 6825006

SUMMIT Version: 7.20.130

Saturday, September 05, 2009 04:49:00

WILLIAMS 4 1/2" LONGSTRING



Local Event Log					
1 Start Job	03:07:38	2 Fill Lines	03:08:18	3 Pressure Test	03:10:25
4 Pump Spacer	03:16:17	5 Pump Cement	03:22:09	6 Shut Down/Clean Lines	03:58:12
7 Drop Plug	04:03:45	8 Pump Displacement	04:04:14	9 Slow Rate	04:17:42
10 Bump Plug	04:20:48	11 Check Floats	04:24:57	12 End Job	04:26:40

Customer: Williams	Date: 05-Sep-2009	Sales Order #: 6825006
Well Description: RWF 312-19	Job Type: Longstring	ADC Used: Yes
Company Rep: John Turner	Cement Supervisor: Ryan Nelson	Elite #: 3