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**WILLIAMS PRODUCTION RMT INC EBUSINE**

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**CTR 513-28-597  
PICEANCE  
Rio Blanco County , Colorado**

**Cement Surface Casing  
24-Jan-2009**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2709460	<b>Quote #:</b>	<b>Sales Order #:</b> 6458188
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC EBUSINE		<b>Customer Rep:</b> HANCOCK, SCOTT	
<b>Well Name:</b> CTR		<b>Well #:</b> 513-28-597	<b>API/UWI #:</b> 05-045-17810
<b>Field:</b> PICEANCE	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Rio Blanco	<b>State:</b> Colorado
<b>Lat:</b> N 39.58 deg. OR N 39 deg. 34 min. 48.623 secs.		<b>Long:</b> W 108.285 deg. OR W -109 deg. 42 min. 52.805 secs.	
<b>Contractor:</b> NABORS 109		<b>Rig/Platform Name/Num:</b> Nabors109	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> KOHL, KYLE		<b>Srvc Supervisor:</b> ANDREWS, ANTHONY	<b>MBU ID Emp #:</b> 321604

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDREWS, ANTHONY Michael		321604	ANGLESTEIN, TROY Edward WM		436099	BLUST, CHARLES Thomas		386662
CARPENTER, MARK Alan		442360	LEIST, JAMES R		362787	LEIST, MICHAEL William		244053
WHITE, GENE L		445480						

**Equipment**

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
1/23/09	22	9	1/24/09	6	3.5			

**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>	22 - Jan - 2009	19:00	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	23 - Jan - 2009	02:00	MST
<b>Job depth MD</b>	2640. ft	<b>Job Depth TVD</b>	2640. ft	<b>Job Completed</b>	23 - Jan - 2009	08:21
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft	<b>Departed Loc</b>	24 - Jan - 2009	03:21
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>			24 - Jan - 2009	06:30

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

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

**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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	WATER SPACER		20	Bbl	.	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	1000	Sacks	12.3	2.32	11.8		
3	Tail Cement	EXTENDACEM (TM) SYSTEM (452981)	250	Sacks	12.6	2.16	10.58		
4	Displacement		201.5	Bbl	8.34	.0	.0	.0	
5	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	30	bbl	10.	.0	.0	.0	
6	Topout Cement	HALCEM (TM) SYSTEM (452986)	800	sacks	15.8	1.15	5.0		4.99
4.989 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	201.5	Shut In: Instant		Lost Returns	Y	Cement Slurry	509.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	N	Actual Displacement	201.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	730.9
Rates									
Circulating	RIG	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	27.8 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					

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<b>Field:</b> PICEANCE	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Rio Blanco	<b>State:</b> Colorado
<b>Legal Description:</b>			
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<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> KOHL, KYLE		<b>Srvc Supervisor:</b> ANDREWS, ANTHONY	<b>MBU ID Emp #:</b> 321604

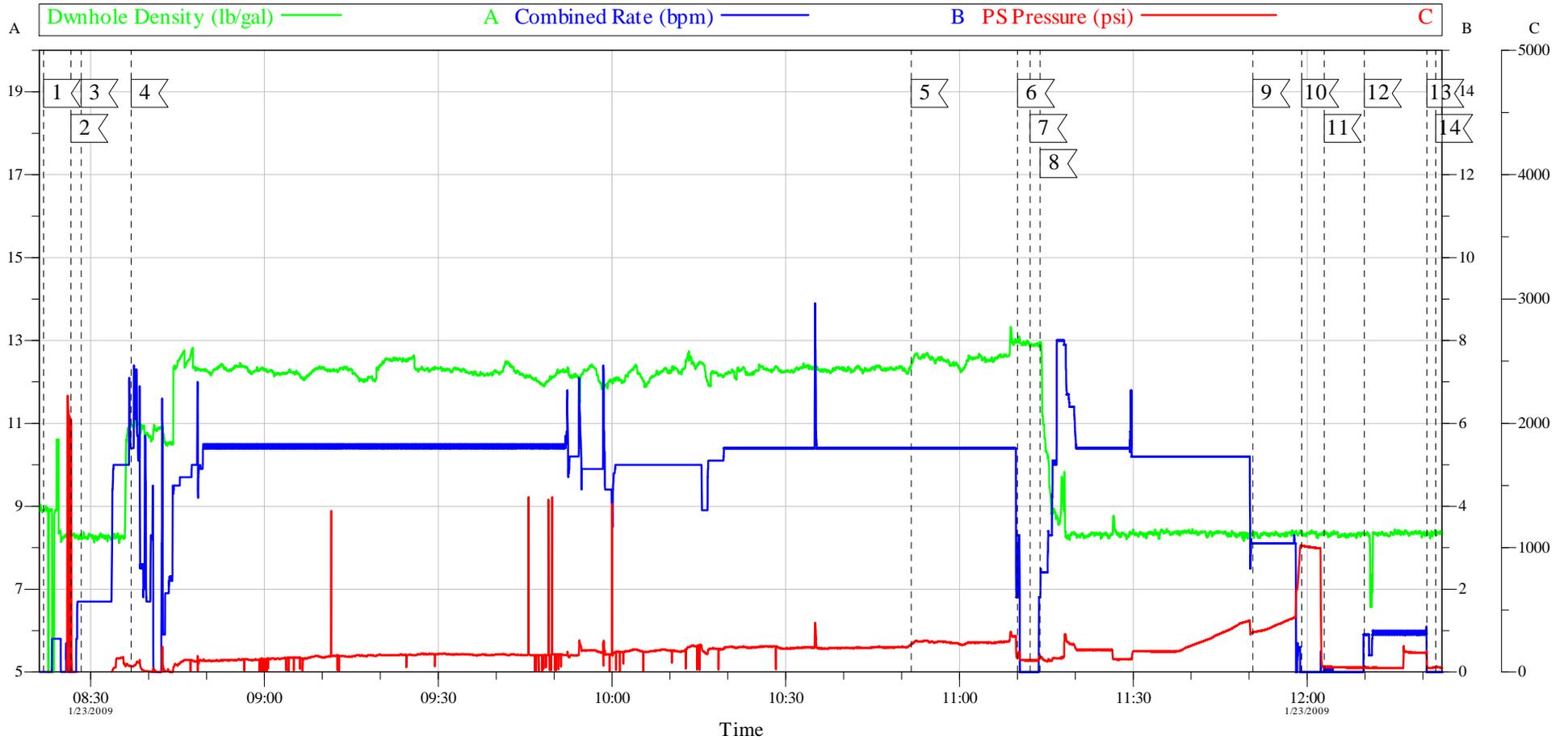
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	01/23/2009 02:00							
Assessment Of Location Safety Meeting	01/23/2009 02:15							
Other	01/23/2009 06:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	01/23/2009 06:45							
Rig-Up Equipment	01/23/2009 07:00							
Pre-Job Safety Meeting	01/23/2009 08:10							
Start Job	01/23/2009 08:21							TD: 2645 TP: 2635 SJ: 27.8 MW: 8.7PPG PARASITE @ APPROX 2522 1.9" TBG.
Test Lines	01/23/2009 08:26							1500 PSI TEST
Pump Spacer	01/23/2009 08:28		3	20			20.0	
Pump Lead Cement	01/23/2009 08:36		5	413.2			47.0	
Pump Tail Cement	01/23/2009 10:51		5	96.2			220.0	
Shutdown	01/23/2009 11:10							
Drop Plug	01/23/2009 11:12							
Pump Displacement	01/23/2009 11:13		5		201.5		120.0	
Slow Rate	01/23/2009 11:50		3	185			319.0	
Bump Plug	01/23/2009 11:59		3	201.5			1016.0	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	01/23/2009 12:02							
Other	01/23/2009 12:09		2	10			45.0	PUMP DOWN PARASITE SUGAR WATER
Shutdown	01/23/2009 12:20							
Other	01/23/2009 12:22							WAIT ON CEMENT 4 HRS
Start Job	01/23/2009 17:29							TOPOUT #1 FIRST TOPOUT WAS DELAYED SLIGHTLY DUE TO PROBLEMS WITH 6X5 ON PUMP TRUCK. WE WERE ABLE TO FIX THE SITUATION AND CONTINUE AS PLANNED.
Pump Cement	01/23/2009 17:31		2.5	43			10.0	200 SKS @ 15.2 PPG 1.15YLD 10 BBLS SUPERFLUSH DOWN BACKSIDE PRIOR TO PUMPING CEMENT. THREE BAGS OF CACL USED
Pump Water	01/23/2009 17:48		2.5	2			18.0	
Shutdown	01/23/2009 17:49							
Clean Lines	01/23/2009 17:51							
Other	01/23/2009 18:02							WAIT ON CEMENT 2 HRS
Call Out	01/23/2009 19:00							
Start Job	01/23/2009 20:09							TOPOUT #2
Pump Cement	01/23/2009 20:10		2.5	33			28.0	150 SKS @ 15.2PPG 1.15YLD 5 BBLS SUPERFLUSH DOWN BACKSIDE PRIOR TO PUMPING CEMENT 2 BAGS CACL USED
Pre-Convoy Safety Meeting	01/23/2009 20:15							
Pump Water	01/23/2009 20:24		2.5	4			15.0	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	01/23/2009 20:25							
Clean Lines	01/23/2009 20:26							
Crew Leave Yard	01/23/2009 20:30							
Other	01/23/2009 20:43							WAIT ON CEMENT 2HRS
Start Job	01/23/2009 22:02							TOPOUT #3
Pump Cement	01/23/2009 22:09		2.5	33			52.0	150 SKS @ 15.2 PPG 1.15 YLD 5 BBLS SUPERFLUSH AND TRICKLED DOWN BACKSIDE WHILE PUMPING CEMENT 2 BAGS CAACL USED
Pump Water	01/23/2009 22:22		2.5	3			46.0	
Shutdown	01/23/2009 22:25							
Clean Lines	01/23/2009 22:28							
Other	01/23/2009 22:45							WAIT ON CEMENT 2HRS
Start Job	01/24/2009 00:28							TOPOUT #4
Pump Cement	01/24/2009 00:33		2.5	33			36.0	150 SKS @ 15.2PPG 1.15YLD SUPERFLUSH RAN DOWN BACKSIDE WHILE PUMPING CEMENT 2 BAGS CAACL USED
Pump Water	01/24/2009 00:45		2.5	2.5			35.0	
Shutdown	01/24/2009 00:48							
Clean Lines	01/24/2009 00:52							
Other	01/24/2009 01:02							WAIT ON CEMENT
Start Job	01/24/2009 02:58							TOPOUT #5

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	01/24/2009 03:02		2.5	30			20.0	150 SKS @ 15.2PPG 1.15 YLD SUPERFLUSH RAN DOWN BACKSIDE WHILE PUMPING CEMENT 2 BAGS CACL USED
Pump Water	01/24/2009 03:13		1	2			87.0	CEMENT TO SURACE
Shutdown	01/24/2009 03:19							
End Job	01/24/2009 03:21							NO CIRCULATION PRIOR TO STARTING INITIAL JOB. PIPE WAS LEFT STATIC THROUGHOUT JOB. PIPE WAS HELD DOWN BY TOP DRIVE. PLUG BUMPED AT CALCULATED DISPLACEMENT. WASHED UP ON TOP OF THE PLUG AS PER CUSTOMER REQUEST.
Post-Job Safety Meeting (Pre Rig-Down)	01/24/2009 03:45							22 ADD HOURS CHARGED. 26 HRS CHARGED FOR TRANSPORT ON LOCATION.
Rig-Down Equipment	01/24/2009 04:00							
Pre-Convoy Safety Meeting	01/24/2009 06:15							
Crew Leave Location	01/24/2009 06:30							THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, COLORADO ANTHONY ANDREWS AND CREW

# 9 5/8" SURFACE



## Event Log

Intersection	PP	Intersection	PP	Intersection	PP
1 START JOB	08:21:52 -22.00	2 TEST LINES	08:26:37 2025	3 PUMP SPACER	08:28:21 -5.000
4 PUMP LEAD CEMENT	08:36:59 47.00	5 PUMP TAIL CEMENT	10:51:39 220.9	6 SHUTDOWN	11:10:02 115.5
7 DROP PLUG	11:12:11 93.00	8 PUMP DISPLACEMENT	11:13:55 120.0	9 SLOW RATE	11:50:39 319.0
10 BUMP PLUG	11:59:05 1016	11 CHECK FLOATS	12:02:59 42.00	12 PUMP DOWN PARASITE	12:09:54 44.00
13 SHUTDOWN	12:20:41 57.13	14 END JOB	12:22:12 41.00		

Customer: WILLIAMS  
Lease: CTR  
Well #: 513-28-597

Job Date: 1/23/09  
Supervisor: ANTHONY ANDREWS  
Pump Truck: 10296148

Ticket #: 6458188  
ADC Used?: YES  
Company Rep: SCOTT HANCOCK

CemWin v1.7.2  
23-Jan-09 13:24