FORM 4 Rev 12/05

Page 1

02054187

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax:(303)894-2109

DE DA | ET | OE | ES DA

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SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an Informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850
2. Name of Operator: Williams Production RMT Co.
3. Address: 1515 Arapahoe St., Tower 3, Suite 1000
   City: Denver State: CO Zip: 80202
4. Contact Name: Greg Davis
   Phone: (303) 606-4071
   Fax: (303) 629-8272

5. API Number 05-045-17346-00 OGCC Facility ID Number
6. Well/Facility Name: Jolley 7. Well/Facility Number KP 511-16
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW 16-T6S-91W
9. County: Garfield 10. Field Name: Kokopeli
11. Federal, Indian or State Lease Number:

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page		
Other		

General Notice

☐ **CHANGE OF LOCATION:** **Attach New Survey Plat** (a change of surface qtr/qtr is substantive and requires a new permit)

		FNL/FSL		FEL/FWL
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				

attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude Distance to nearest property line Distance to nearest bldg, public rd, utility or RR

Longitude Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation Distance to nearest well same formation Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ **CHANGE SPACING UNIT**

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ **Remove from surface bond**
Signed surface use agreement attached

☐ **CHANGE OF OPERATOR (prior to drilling):**
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ **CHANGE WELL NAME** **NUMBER**
From:
To:
Effective Date:

☐ **ABANDONED LOCATION:**
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ **NOTICE OF CONTINUED SHUT IN STATUS**
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ **SPUD DATE:**

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately ☐ Final reclamation is completed and site is ready for Inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☒ Report of Work Done
Date Work Completed: 12/30/09

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)
☐ Change Drilling Plans
☐ Gross Interval Changed?
☐ Casing/Cementing Program Change
☐ Request to Vent or Flare
☐ Repair Well
☐ Rule 502 variance requested
☒ Other: Re-squeeze
☐ E&P Waste Disposal
☐ Beneficial Reuse of E&P Waste
☐ Status Update/Change of Remediation Plans for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Greg Davis Date: 1/8/10 Email: Greg.J.Davis@Williams.com

Print Name: Greg Davis Title: Supervisor Permits

COGCC Approved: David Andrews Title PE II Date: 1/27/2010

CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

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1. OGCC Operator Number: 96850 API Number: 05-045-17346-00
2. Name of Operator: Williams Production RMT Co OGCC Facility ID #
3. Well/Facility Name: Jolley Well/Facility Number: KP 511-16
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW Sec 16 T6S-R91W

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

DA Verbal approval was given on Tuesday December 29, 2009 to repair squeeze holes that failed a pressure test on the KP 511-16. Holes were at 7950' to 7953'. 200 sks of 15.8 ppg cement was pumped. Final squeeze pressure was ~4300 psi. Cement was drilled out and perfs were tested to 2500 psi. A frac liner was used to isolate the perfs from the Corcoran Frac Treatment.

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WILLIAMS PRODUCTION RMT INC EBUSINE

KP 511-16
KOKOPELLI
Garfield County , Colorado

Squeeze Perfs

30-Dec-2009

Post Job Report

SUMMIT Version: 7.20.130

Wednesday, December 30, 2009
12:41:00

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2752950	**Quote #:**	**Sales Order #:** 7094397
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		**Customer Rep:** BRADY, JEFF	
Well Name: KP	**Well #:** 511-16		**API/UWI #:** 05-045-17346
Field: KOKOPELLI	**City (SAP):** SILT	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.531 deg. OR N 39 deg. 31 min. 50.189 secs.		**Long:** W 107.565 deg. OR W -108 deg. 26 min. 7.411 secs.	
Contractor: WORKOVER	**Rig/Platform Name/Num:** WORKOVER		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	**Job Type:** Squeeze Perfs		
Sales Person: KOHL, KYLE	**Srvc Supervisor:** SCOTT, DALLAS	**MBU ID Emp #:** 334750	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	6.5	456683	BROWN, TRAVIS A	6.5	396848	DYK, KORY	6.5	421946
SCOTT, DALLAS D	6.5	334750	SULLIVAN, MARK W	6.5	425453			

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10248057	60 mile	10296152C	60 mile	10897797	60 mile	10951250	60 mile

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
12/30/09	6.5	1.5						
TOTAL								

Total is the sum of each column separately

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	7953. ft	**Job Depth TVD**	7953. ft
Water Depth		**Wk Ht Above Floor**	4
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	30 - Dec - 2009	02:00	MST
On Location	30 - Dec - 2009	07:00	MST
Job Started	30 - Dec - 2009	10:32	MST
Job Completed	30 - Dec - 2009	11:45	MST
Departed Loc	30 - Dec - 2009	13:30	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
2 3/8" Tubing	Unknown		2.375	1.995	4.7				7915.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
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**			
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*	

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Cementing Job Summary

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	Injection Test		30.00	bbl	8.33	.0	.0	.0	
2	Tail Slurry	SQUEEZECEM (TM) SYSTEM (452971)	200.0	sacks	15.8	1.15	5.0	3.0	5.0
	5 Gal	FRESH WATER							
3	Displacement Fluid		29.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement	30.63	Shut In: Instant	1500	Lost Returns		Cement Slurry	41	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	28.3	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	

Rates							
Circulating	Rig	Mixing	3	Displacement	2	Avg. Job	2

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 @		ID	

The Information Stated Herein Is Correct	Customer Representative Signature

Summit Version: 7.20.130 Wednesday, December 30, 2009 12:41:00

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2752950	**Quote #:**	**Sales Order #:** 7094397
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		**Customer Rep:** BRADY, JEFF	
Well Name: KP	**Well #:** 511-16		**API/UWI #:** 05-045-17346
Field: KOKOPELLI	**City (SAP):** SILT	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.531 deg. OR N 39 deg. 31 min. 50.189 secs.		**Long:** W 107.565 deg. OR W -108 deg. 26 min. 7.411 secs.	
Contractor: WORKOVER	**Rig/Platform Name/Num:** WORKOVER		
Job Purpose: Squeeze Perfs			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Squeeze Perfs		
Sales Person: KOHL, KYLE	**Srvc Supervisor:** SCOTT, DALLAS		**MBU ID Emp #:** 334750

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Call Out	12/30/2009 02:00							
Depart Yard Safety Meeting	12/30/2009 04:00							Safety meeting including entire HES crew; is assigned safety observer
Arrive At Loc	12/30/2009 07:00							Rig preparing to run tubing
Comment	12/30/2009 07:01							Tubing 2 3/8 4.7# @ 7915', Retainer @ 7915', Casing 4 1/2" 11.6#, Perfs @ 7950'-7953'
Safety Meeting - Assessment of Location	12/30/2009 07:05							Location assessment including entire HES crew
Rig-Up Equipment	12/30/2009 07:15							1 Pump (Elite); 1 Bulk (400); 1 Hardline from pump to manifold, 1 Hardline from manifold to floor, 1 Hardline from manifold to backside, 1 Hardline from manifold to pit
Safety Meeting - Pre Job	12/30/2009 10:15							Safety meeting including entire HES crew
Start Job	12/30/2009 10:32							
Other	12/30/2009 10:33		1			1800.0		Fill lines
Pressure Test	12/30/2009 10:34					7000.0		PSI test good; No leaks

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Cementing Job Log

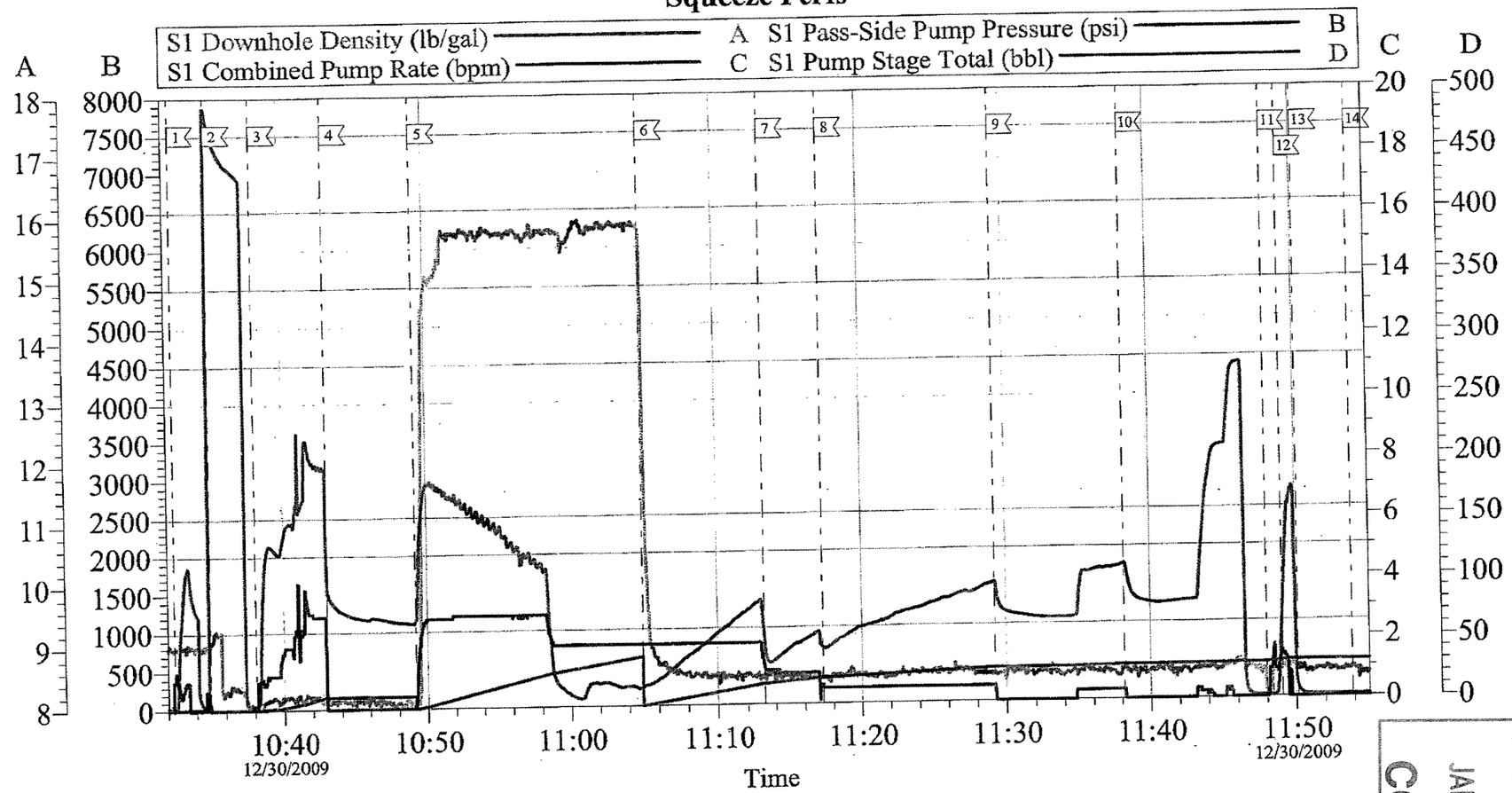
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Injection Test	12/30/2009 10:38		3	10		3350.0		Freshwater; Customer was aware that halliburton best practice is to pump 1 1/2 tubular volume 45.9 bbls; Co-rep chose 10 bbls
ISIP	12/30/2009 10:43					1500.0		
Pump Tail Cement	12/30/2009 10:49		3	40.96		2918.0		200 sks, 15.8 ppg, 1.15 ft3/sk, 5 gal/sk; Slowed rate when cmt reached perfs
Pump Displacement	12/30/2009 11:05		2	27		1557.0		Freshwater; Slowed rate several times during displacement as per co-rep
Stage Cement	12/30/2009 11:34		0.3	1	28	1763.0		
Stage Cement	12/30/2009 11:43		0.3	0.3	28.3	5000.0		
Release Casing Pressure	12/30/2009 11:45							Pumped 1 bbls on top of packer after rig stung out.
Reverse Circ Well	12/30/2009 11:47							Rig reversed out through HES lines
End Job	12/30/2009 11:50							
Pre-Rig Down Safety Meeting	12/30/2009 11:55							Safety meeting including entire HES crew
Rig-Down Equipment	12/30/2009 12:00							
Rig-Down Completed	12/30/2009 13:30							
Safety Meeting - Departing Location	12/30/2009 13:35							Safety meeting including entire HES crew
Crew Leave Location	12/30/2009 13:45							
Comment	12/30/2009 13:46							Thank-you for choosing Halliburton; Dallas Scott, and crew

Sold To # : 300721 Ship To # :2752950 Quote # : Sales Order # : 7094397

SUMMIT Version: 7.20.130 Wednesday, December 30, 2009 12:41:00

Williams

Squeeze Perfs



Local Event Log

1	Start Job	10:32:29	2	Pressure Test	10:34:59	3	Injection Test	10:38:06
4	ISIP	10:43:04	5	Pump Cement	10:49:12	6	Pump Displacement	11:04:56
7	Slow Rate	11:13:10	8	Slow Rate	11:17:16	9	Hesitate	11:29:13
10	Hesitate	11:38:11	11	Shut Down/Sting Out	11:47:59	12	Pump on top of Retainer	11:49:03
13	Rig Reverse Out	11:50:08	14	End Job	11:53:50			

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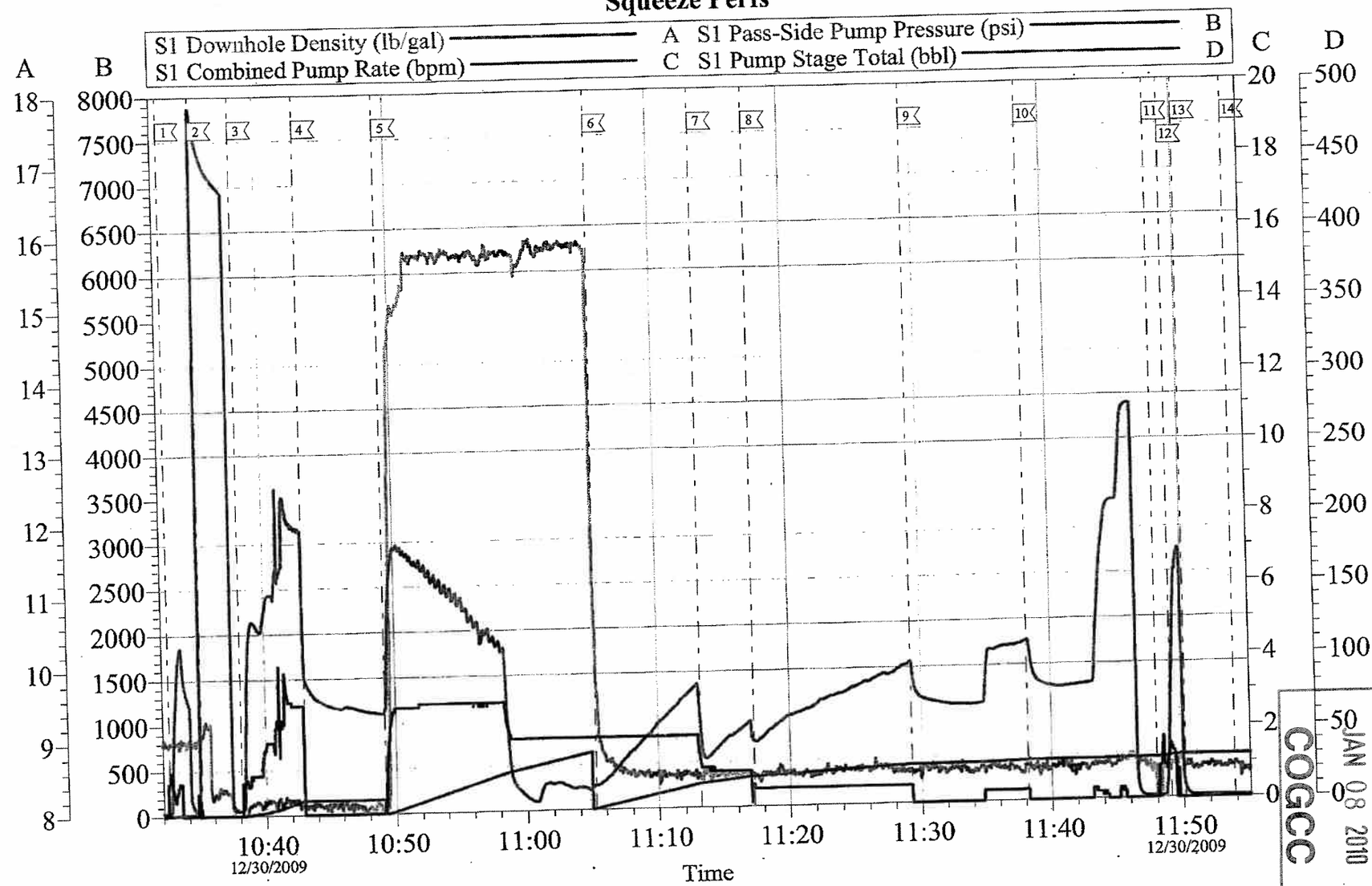
Customer:	Williams	Job Date:	30-Dec-2009	Sales Order #:	7094397
Well Description:	KP 511-16	Job Type:	Squeeze	ADC Used:	Yes
Company Rep:	Jeff Brady	Cement Supervisor:	Dallas Scott	Elite #/Operator:	9/Travis Brown

OptiCem v6.4.6
30-Dec-09 12:07

Williams

Squeeze Perfs



Customer:	Williams	Job Date:	30-Dec-2009	Sales Order #:	7094397
Well Description:	KP 511-16	Job Type:	Squeeze	ADC Used:	Yes
Company Rep:	Jeff Brady	Cement Supervisor:	Dallas Scott	Elite #/Operator:	9/Travis Brown

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30-Dec-09 12:20

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Water Analysis Report

Company:	Williams	Date:	12/30/2009
Submitted by:	Mark Sullivan	Date Rec.:	12/30/2009
Attention:	Jon Trout	S.O.#	7094397
Lease	KP	Job Type:	Squeeze
Well #	511-16	Water Source:	Frac Tank

	Acceptable Limits	
Specific Gravity	*na*	1
pH	*5.5-9*	7.15
Potassium (K)	*<1500*	250 Mg / L
Calcium (Ca)	*<600*	120 Mg / L
Iron (FE2)	*<300*	3 Mg / L
Chlorides (Cl)	*<3000*	250 Mg / L
Sulfates (SO_4)	*<1000*	200 Mg / L
Chlorine (Cl_2)		0 Mg / L
Temp	*40-105*	32.5 Deg
Total Dissolved Solids	*<2000*	890 Mg / L

Respectfully: Mark Sullivan

Title: ATP/ Cement Engineer

Location: Grand Junction, CO

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its u