



02054050

Oil and Gas Conservation Commission

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



DE DA BY OE ES DA

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.)

RECEIVED

OCT 16 2009

COGCC

Complete the Attachment
Checklist

OP OGCC

1. OGCC Operator Number: 96850	4. Contact Name: Howard Harris		
2. Name of Operator: Williams Production RMT Company	Phone: 303-806-4086		
3. Address: 1515 Arapahoe St., Tower 3, #1000	Fax: 303-629-8272		
City: Denver State: CO Zip: 80202			
5. API Number 05-045-15677-00	OGCC Facility ID Number	Survey Plat	
6. Well/Facility Name: Federal	7. Well/Facility Number RWF 441-17	Directional Survey	
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SENE Section 17-T6S-R94W 6th PM		Surface Eqpm Diagram	
9. County: Garfield	10. Field Name: Rullison	Technical Info Page	X
11. Federal, Indian or State Lease Number:		Other	X

General Notice

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

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME NUMBER From: _____ To: _____ Effective Date: _____
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT _____
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<input type="checkbox"/> SPUD DATE: _____	<input type="checkbox"/> 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

<input type="checkbox"/> Notice of Intent Approximate Start Date: _____	<input checked="" type="checkbox"/> Report of Work Done Date Work Completed: 10/13/09
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

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

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Squeeze for Low TOC	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: Howard Harris Date: 10/16/09 Email: Howard.Harris@Williams.com
Print Name: Howard Harris Title: Sr. Regulatory Specialist

COGCC Approved: David And Title PE II Date: 11/4/2009

CONDITIONS OF APPROVAL, IF ANY:



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

RECEIVED
OCT 16 2009
COGCC

1. OGCC Operator Number:	96850	API Number:	05- 045-15677-00
2. Name of Operator:	Williams Production RMT Company OGCC Facility ID #		
3. Well/Facility Name:	Federal	Well/Facility Number:	RWF 441-17
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SENE Section 17-T6S-R94W 6th PM		

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

The subject well was squeezed with 200 sx of cement to eliminate braidenhead pressure.
3 squeeze holes were shot at 6435.
The cement was drilled out and pressure tested.

See attached procedure and job summary. Also attached is CBL

Verbal approval was given by David Andrews via e-mail 10/14/09



Exploration and Production
RWF 441-17 Cement Squeeze Procedure

Wellname: RWF 441-17
Location: S17 T6S R94W
Field: Rulison

Prepared By: Julie Tannehill
office phone: (303) 606-4295
cell phone: (720) 375-2192

Date: 10/2/2009

RECEIVED

OCT 16 2009

COGCC

Surface Casing - 9 5/8", 36 lb/ft, J-55 STC
Surface Casing Depth - 2,685-ft

Intermediate Casing - 4 1/2", 11.6 lb/ft, I-80 BTC
Intermediate Casing Depth - 8,982-ft

Production Tubing - N/A
Production Tubing Depth -

Plug Back Depth -
Maximum Recorded Temp -
Total Depth - 9,022-ft (Driller's depth)

Correlate Log - Baker Radial Cement Bond Log 8/27/09

Short Joint - 5,478' to 5,505'

Formation Tops:

Top of G Sand: 2,525
Top of Mesaverde: 5,192
Top of Gas: 6,479
Top of Rollins: 8,903
TD: 9,008

Purpose: Eliminate bradenhead pressure by cement squeezing

Proposed Procedure:

1. Review CBL and initial completion procedure.
2. MIRU Wireline.
3. RIH with composite plug and set at 6500'.
4. Pressure test casing to 7000 psi. Discuss results with Denver.
5. Shoot 3 0.35" squeeze holes at 6435'.
6. RIH with composite cement retainer and set at 6335'.
7. RIH with 2-3/8" tubing and stab into cement retainer.
8. Establish circulation with freshwater, leaving the bradenhead valve open.
9. Pump 20 bbls of Mud Flush, leaving the bradenhead valve open.
10. Pump 100 sxs of 15.8 ppg cement with backside open.
11. Pump 100 sxs of 17-17.5 ppg cement and stage last 5 bbls with bradenhead valve closed.
(Approx. TOC height ~ 5970')
12. Sting out of retainer. Reverse circulate out any remaining cement in the tubing.
13. POOH with tubing. Shut in well and WOC for 24 hours.
14. Drill out cement, retainers, and solid plug.
15. Run CBL over the squeeze.
16. Pressure test squeeze hole at 4500 psi using rig pump.
17. Wait on CBL results before proceeding.

HALLIBURTON

RECEIVED

OCT 16 2009

COGCC

WILLIAMS PRODUCTION RMT INC EBUSINE

RWF 441-17
RULISON
Garfield County , Colorado

Perforation Squeeze
13-Oct-2009

Post Job Report

RECEIVED

OCT 16 2009

COGCC

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2735418	Quote #:	Sales Order #: 6947630
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE	Customer Rep:		
Well Name: RWF	Well #: 441-17	API/UWI #: 05-045-15677	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.526 deg. OR N 39 deg. 31 min. 34.849 secs.	Long: W 107.905 deg. OR W -108 deg. 5 min. 43.321 secs.		
Contractor: Work Over	Rig/Platform Name/Num: Workover		
Job Purpose: Squeeze Casing Shoe			
Well Type: Development Well	Job Type: Squeeze Casing Shoe		
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 #
BANKS, BRENT A	5	371353	HUGHES, STEVEN Shane	5	300140	KUKUS, CRAIG A	5	369124
NELSON, RYAN Cody	5	386514	TALAROVICH, JEREMY Jay	5	425449			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10867094	60 mile	10897925	60 mile	10951245	60 mile
10995027	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-13-09	5	2.5						

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	13 - Oct - 2009	03:00	MST
Form Type	BHST			On Location	13 - Oct - 2009	06:30	MST
Job depth MD	6435. ft	Job Depth TVD	6435. ft	Job Started	13 - Oct - 2009	08:30	MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	13 - Oct - 2009	10:15	MST
Perforation Depth (MD)	From	To		Departed Loc	13 - Oct - 2009	11:00	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/3rd Party (HES)

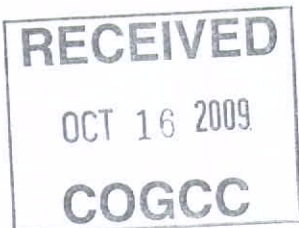
Description	Qty	Qty uom	Depth	Supplier
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

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

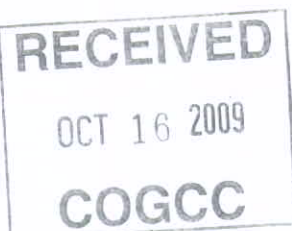
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	



HALLIBURTON

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	MUD FLUSH III/ Injection Test	MUD FLUSH III - SBM (528788)	20.00	bbl	8.4	.0	.0	.0	
2	Spacer		10.00	bbl	8.33	.0	.0	.0	
3	Lead Cement	SQUEEZECM (TM) SYSTEM (452971)	100.0	sacks	15.8	1.15	5.0		
4	Tail Cement	SQUEEZECM (TM) SYSTEM (452971)	100.0	sacks	17.0	.99	3.5		
5	DISPLACEMENT		24.6	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	24.6	Shut In: Instant	1475	Lost Returns		Cement Slurry	38.1	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	25.1	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	2	Displacement	2	Avg. Job	2		
Cement Left In Pipe	Amount	Reason							
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 #: 2735418	Quote #:	Sales Order #: 6947630
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		Customer Rep:	
Well Name: RWF	Well #: 441-17	API/UWI #: 05-045-15677	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.526 deg. OR N 39 deg. 31 min. 34.849 secs.		Long: W 107.905 deg. OR W -108 deg. 5 min. 43.321 secs.	
Contractor: Work Over		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Casing Shoe			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Casing Shoe	
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	10/13/2009 03:00							
Arrive at Location from Service Center	10/13/2009 06:30							
Assessment Of Location Safety Meeting	10/13/2009 06:35							
Pre-Rig Up Safety Meeting	10/13/2009 06:40							
Rig-Up Equipment	10/13/2009 06:45							
Pre-Job Safety Meeting	10/13/2009 08:25							
Other	10/13/2009 08:37					433.0		
Start Job	10/13/2009 08:37							Retainer set @ 6361' Top perf @ 6435' Bridge plug @ 6500
Test Lines	10/13/2009 08:39					6900. 0		
Pump Spacer 1	10/13/2009 08:45		2	20		2115. 0		Mud Flush
Pump Spacer 2	10/13/2009 08:56		1.8	5		2044. 0		Fresh water
ISIP	10/13/2009 08:58					1475. 0		
Pump Spacer 1	10/13/2009 09:01		1.8	5		2060. 0		Fresh Water
Pump Lead Cement	10/13/2009 09:12		1.8	20.5		1680. 0		100 sks 15.8 ppg 1.15 yield 5.0 gal/sk
Pump Tail Cement	10/13/2009 09:23		1.8	17.6		1270. 0		100 sks 17 ppg .99 yield 3.5 gal/sk
Shutdown	10/13/2009 09:32							
Pump Displacement	10/13/2009 09:32		1.8	24.6		2440. 0		Fresh water. Total displacement to retainer- 24.6 bbl

Sold To # : 300721

Ship To # :2735418

Quote # :

Sales Order # :

6947630

SUMMIT Version: 7.20.130

Wednesday, October 14, 2009 04:32:00

HALLIBURTON**RECEIVED**

OCT 16 2009

COGCC*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	10/13/2009 09:44			22.6				
Pressure Up	10/13/2009 09:49		1.5	1		1900. 0		
Shutdown	10/13/2009 09:50			23.6				
Pressure Up	10/13/2009 09:55		1.5	1		2300. 0		
Shutdown	10/13/2009 09:56			24.6				
Pressure Up	10/13/2009 10:01		1.3	0.5		1860. 0		Displaced past retainer .5 bbl
Shutdown	10/13/2009 10:02			25.1				
End Job	10/13/2009 10:05							Rig reversed out. Thank you for using Halliburton-Ryan Nelson & Crew

Sold To # : 300721

Ship To # : 2735418

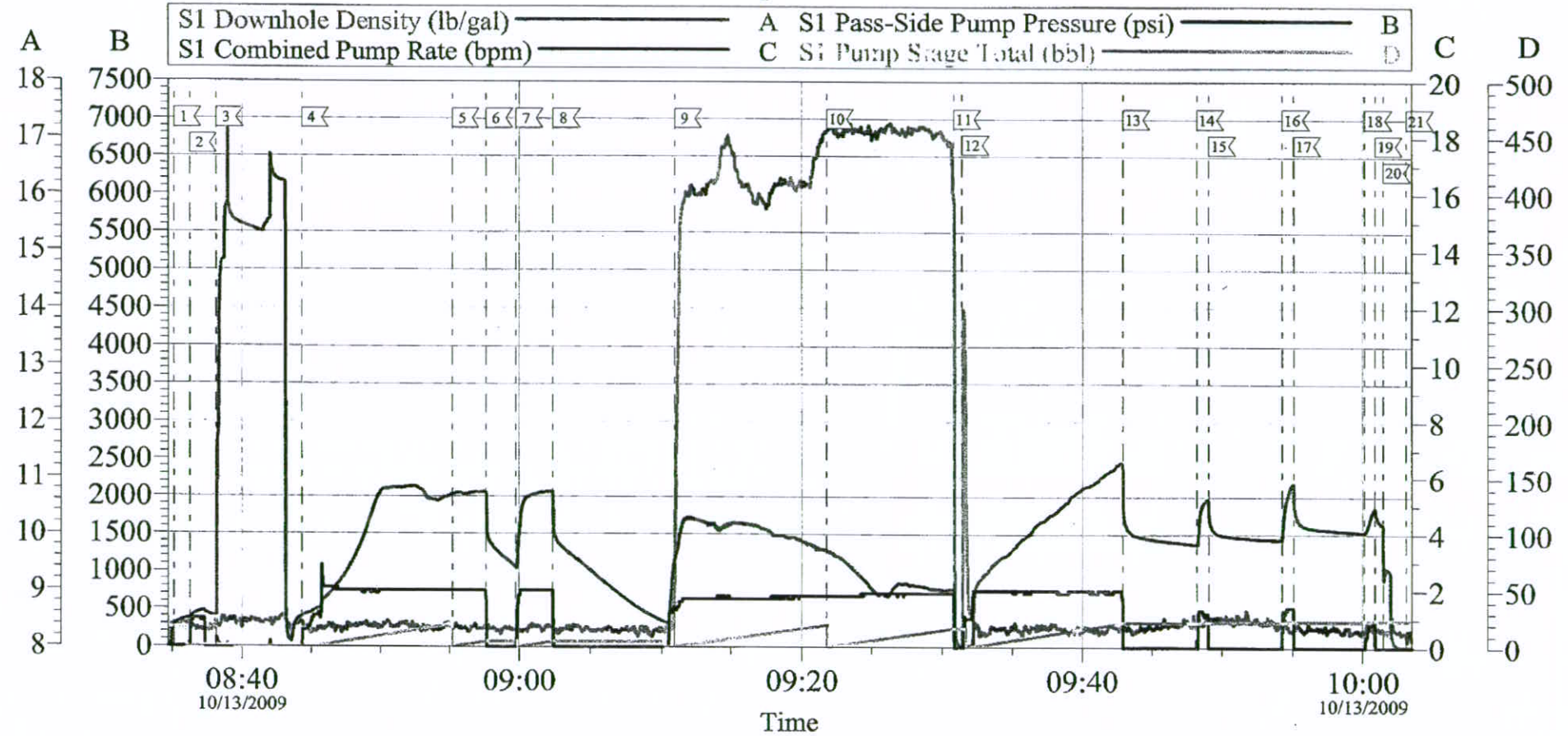
Quote # :

Sales Order # : 6947630

SUMMIT Version: 7.20.130

Wednesday, October 14, 2009 04:32:00

Williams Squeeze



Local Event Log

1 START JOB	08:35:08	2 FILL LINES	08:36:15	3 PRESSURE TEST	08:38:09
4 PUMP MUD FLUSH	08:44:16	5 PUMP H2O SPACER	08:55:12	6 SHUTDOWN / ISIP	08:57:38
7 PUMP H2O	08:59:46	8 SHUTDOWN / ISIP	09:02:23	9 PUMP LEAD CEMENT	09:10:55
10 PUMP TAIL CEMENT	09:21:47	11 SHUTDOWN	09:30:49	12 PUMP DISPLACEMENT	09:31:24
13 HESITATE	09:42:55	14 STAGE CEMENT	09:48:12	15 HESITATE	09:49:03
16 STAGE CEMENT	09:54:16	17 HESITATE	09:55:04	18 STAGE CEMENT	10:00:08
19 SHUTDOWN	10:00:53	20 STING OUT OF RETAINER	10:01:27	21 END JOB	10:03:03

RECEIVED
 OCT 16 2009
 COGCC

Customer: Williams
 Well Description: RWF 441-17
 Company Rep: Kent Hejl

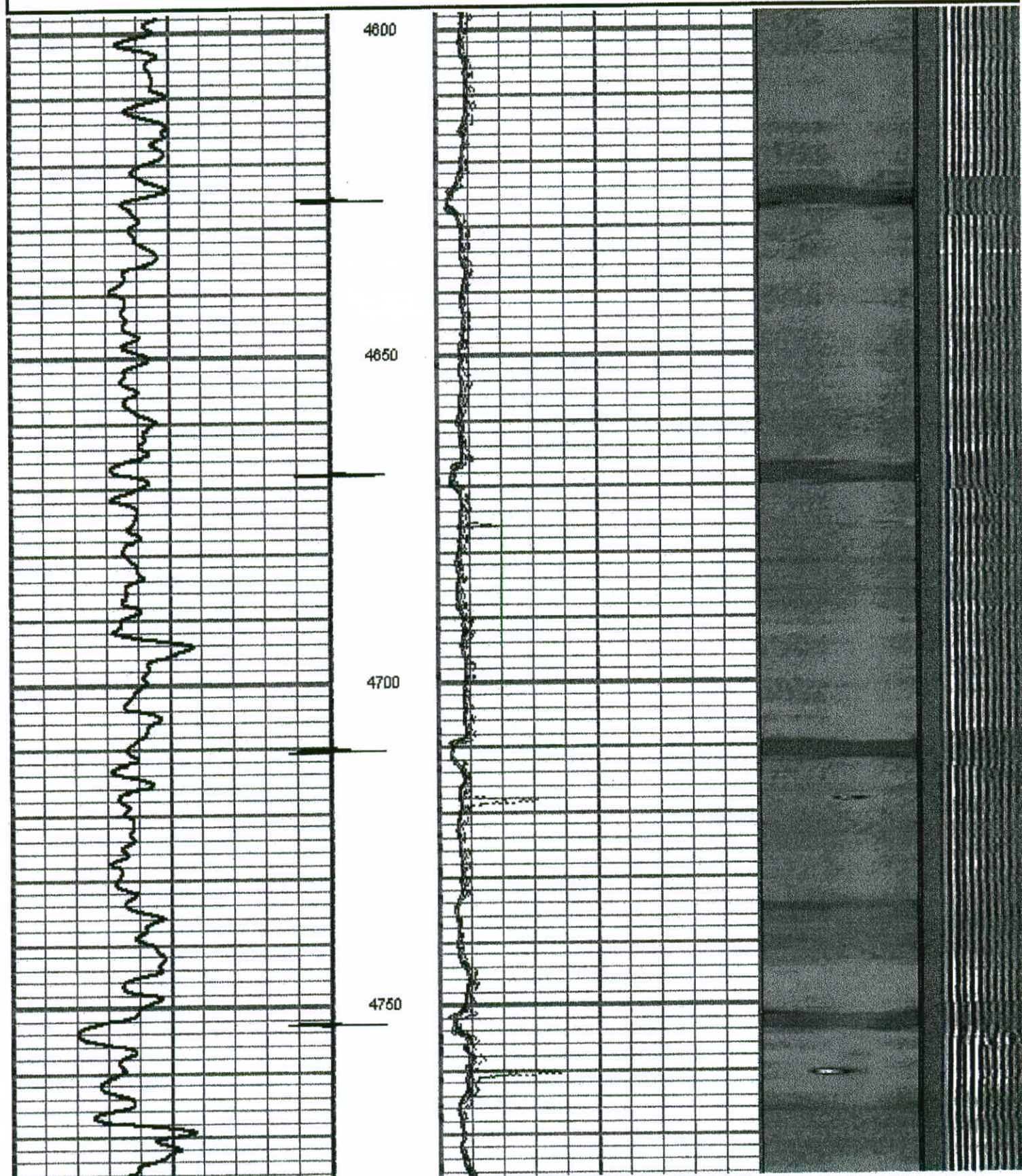
Job Date: 13-Oct-2009
 Job Type: Squeeze
 Cement Supervisor: Ryan Nelson

Sales Order #: 6947630
 ADC Used: Yes
 Elite #/Operator: 3 - Brent Banks

OptiCem v6.4.2
 13-Oct-09 10:18

Database File: w_jonew01001.gd
Dataset Pathname: pass5
Presentation Format: rbt_fin
Dataset Creation: Wed Oct 14 16:17:02 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

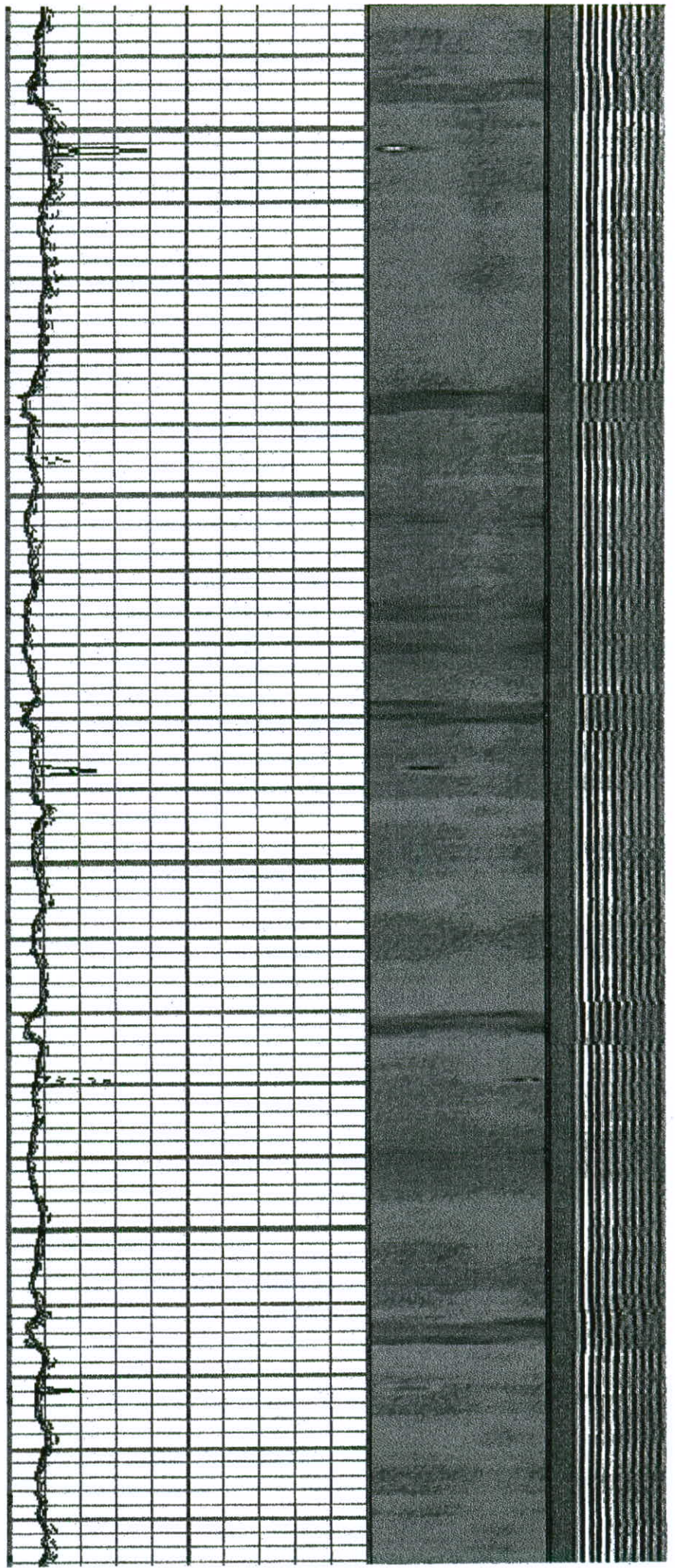
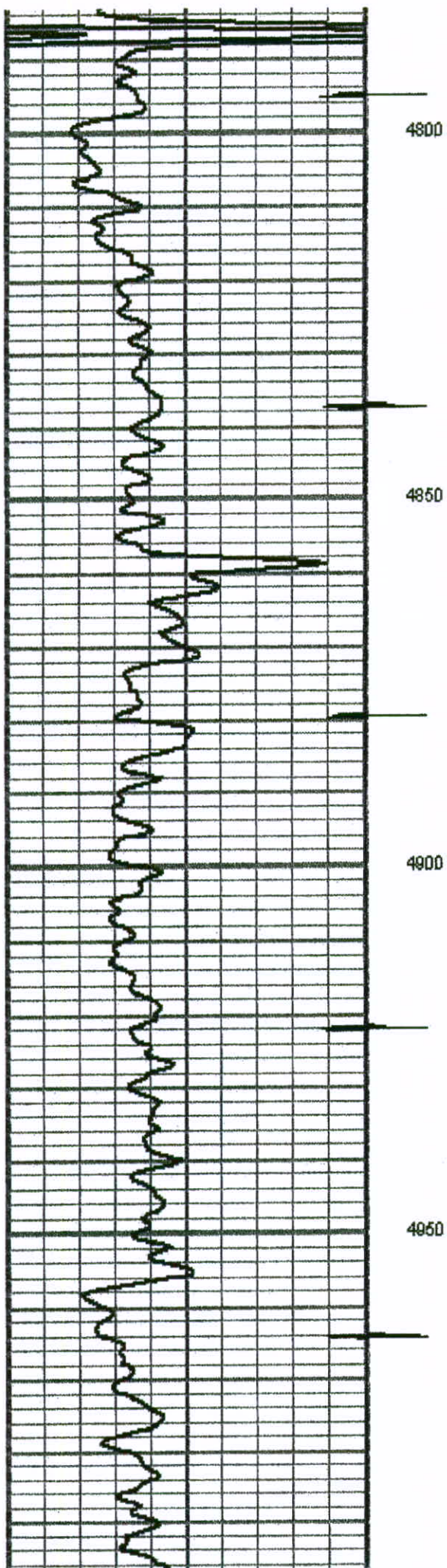
0	GR (GAPI)	200	0	Amplitude (mV)	100	1	SECTORS	8	Variable Der
		CCL	0	TT3FT (usec)	200	0		70	200



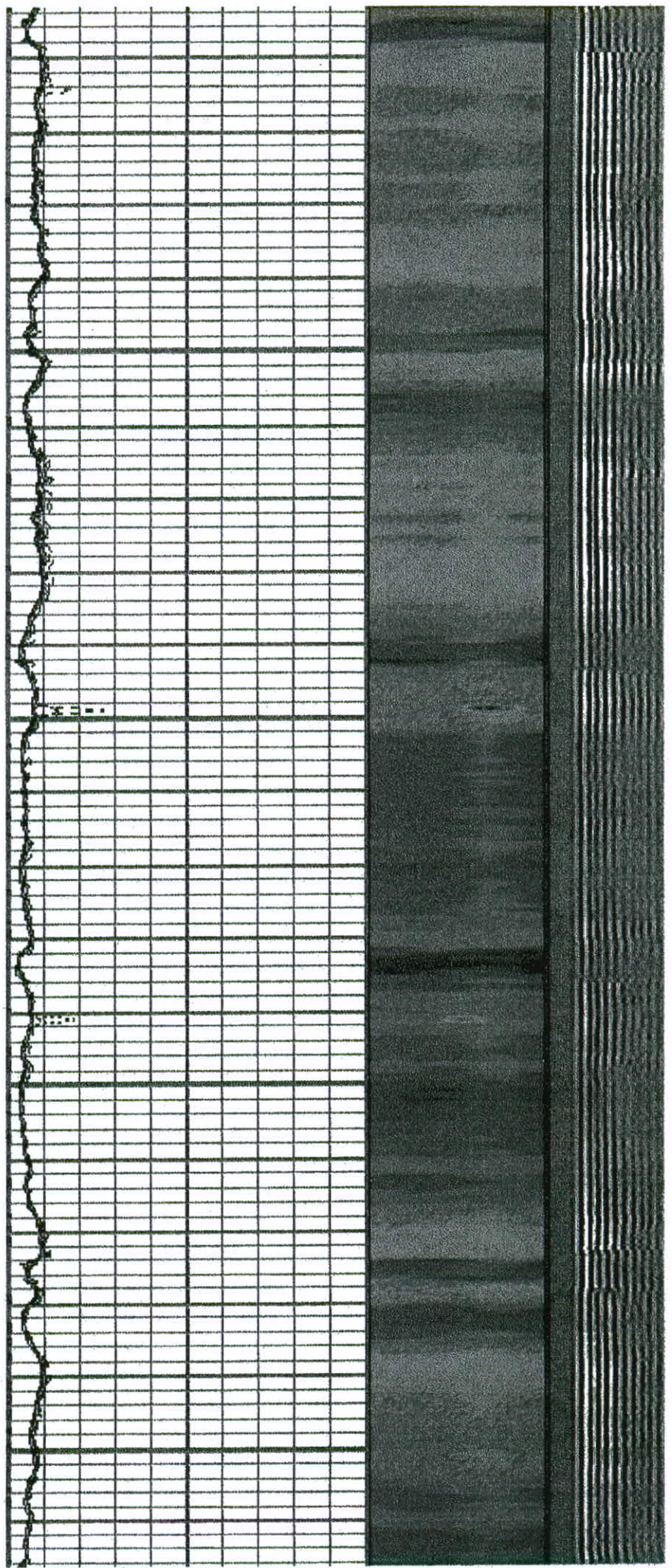
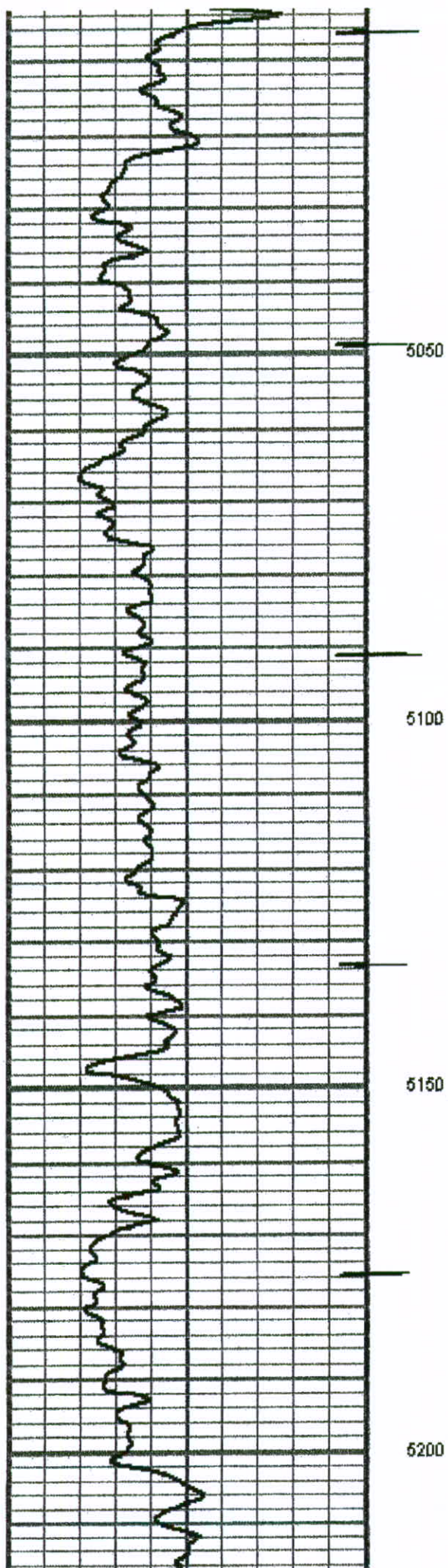
RECEIVED

OCT 16 2009

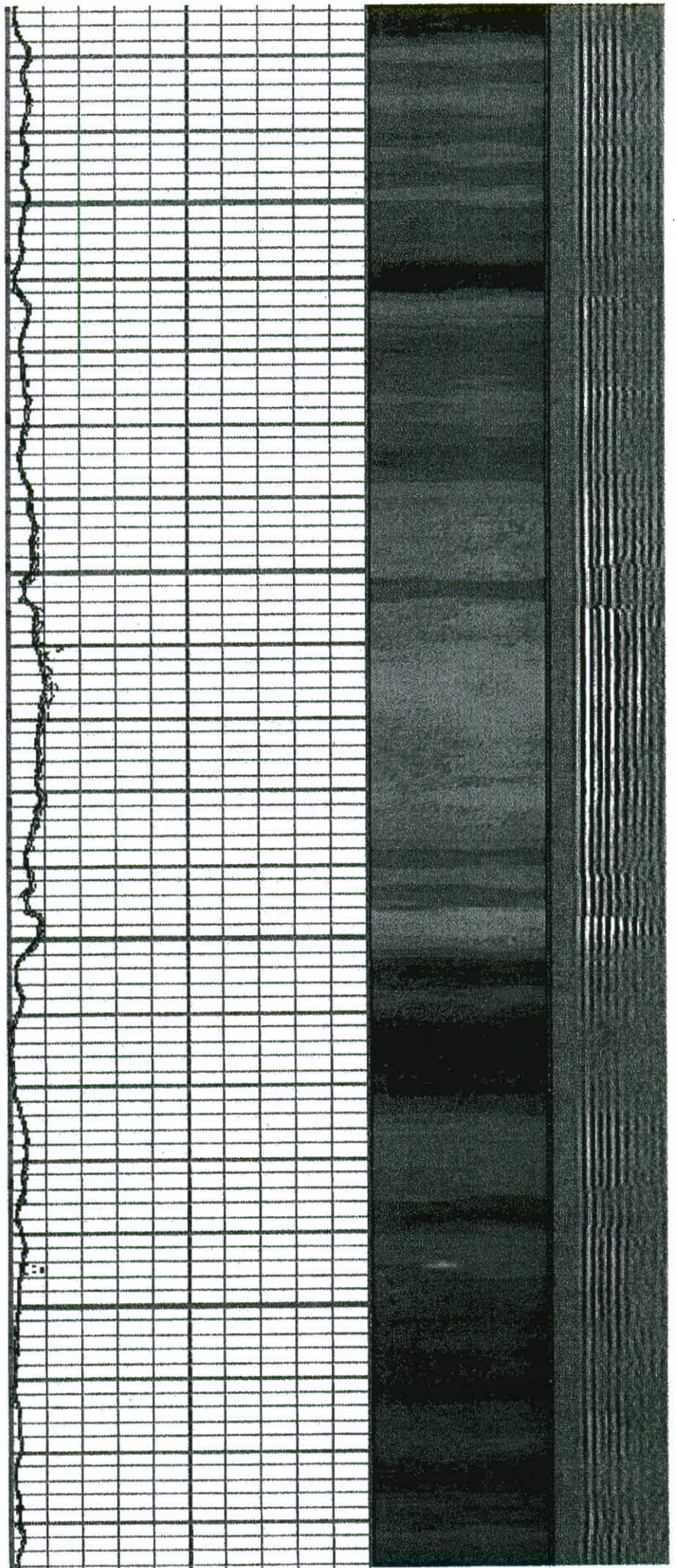
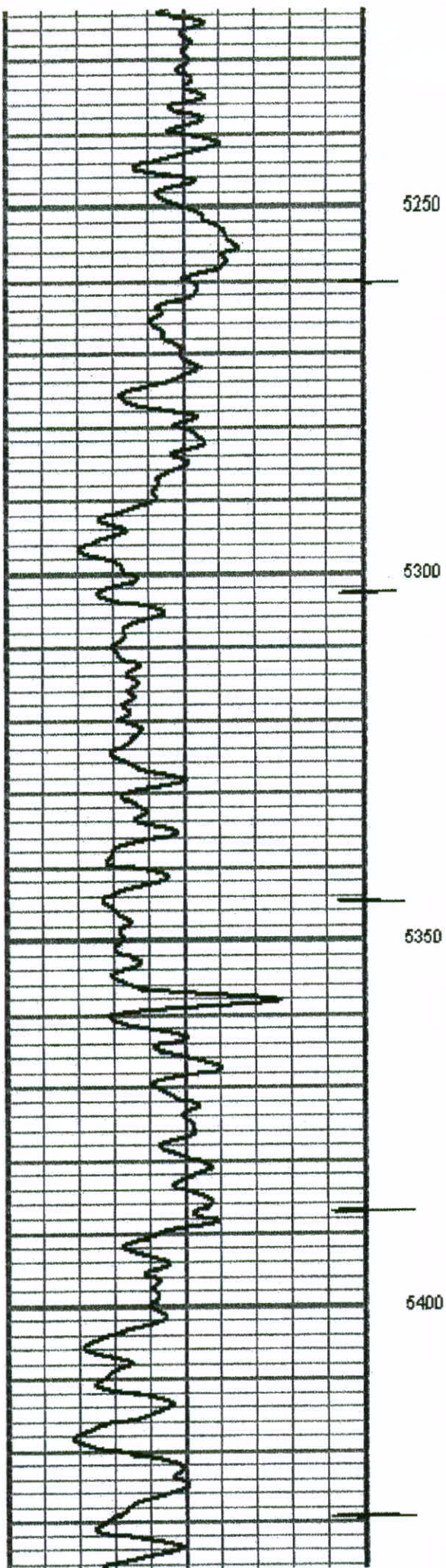
COGCC



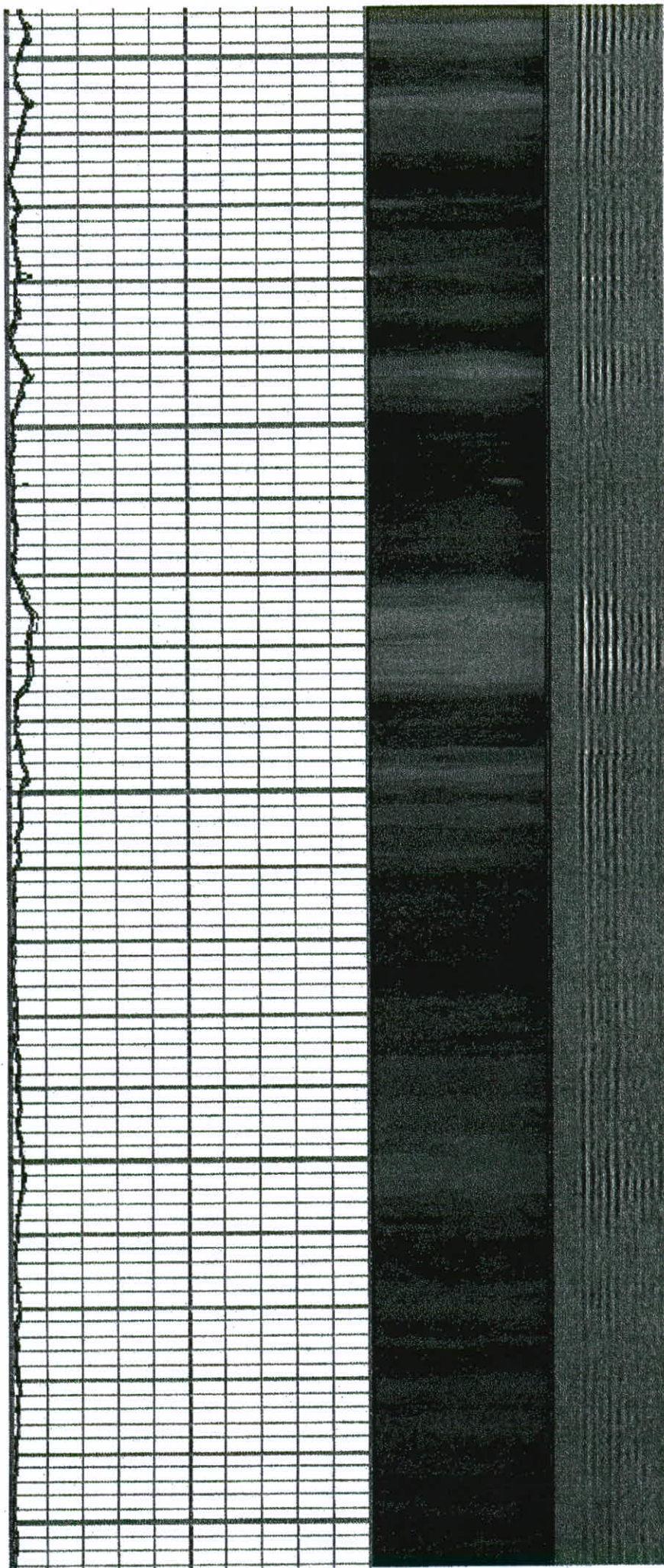
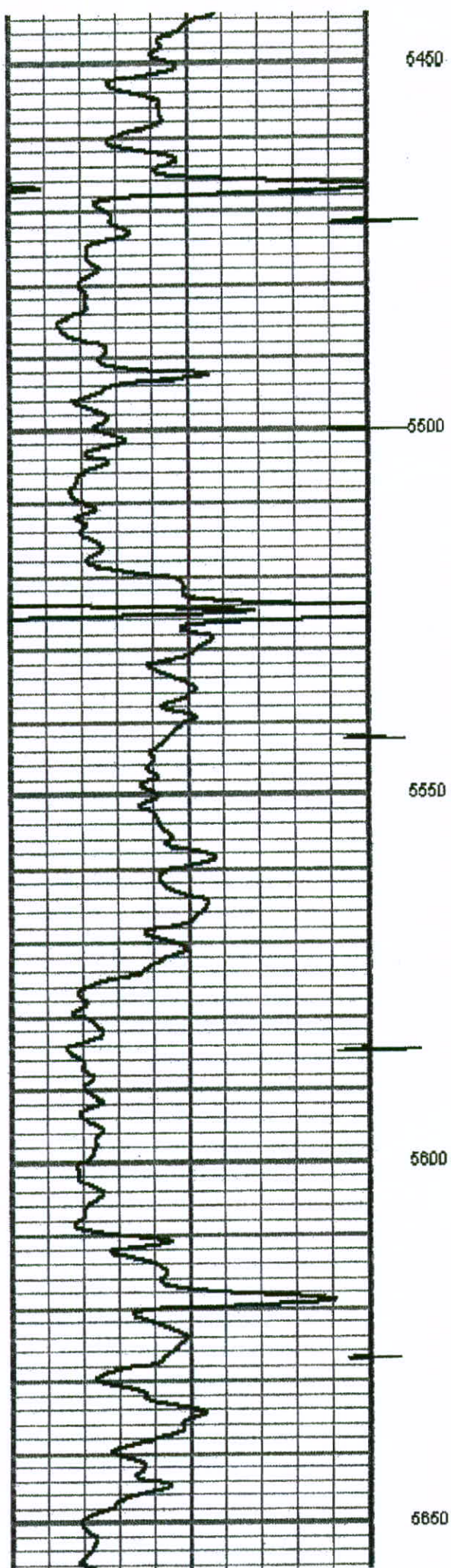
RECEIVED
OCT 16 2009
COGCC



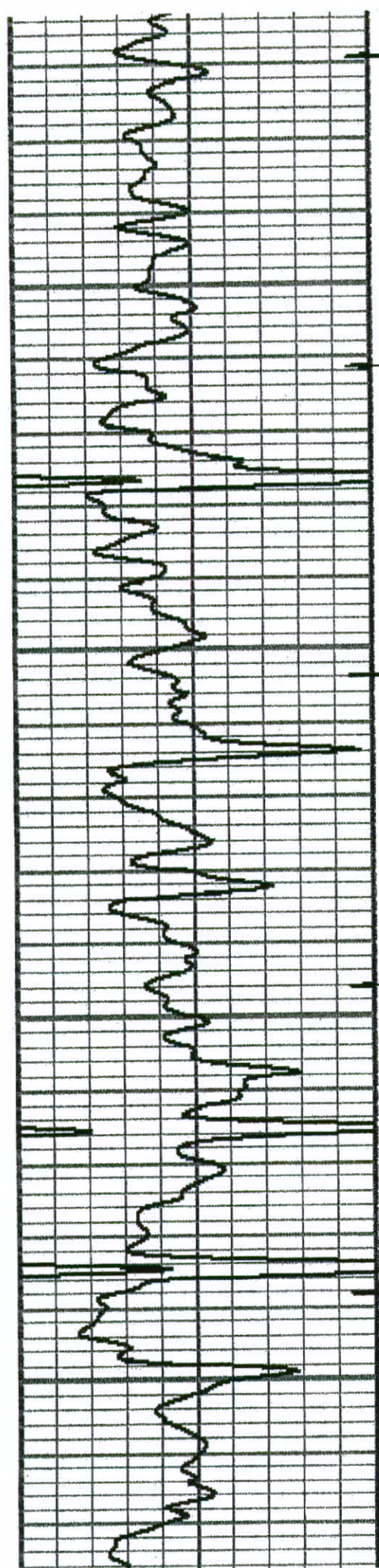
RECEIVED
OCT 16 2009
COGCC



RECEIVED
OCT 16 2009
COGCC



RECEIVED
OCT 16 2009
COGCC

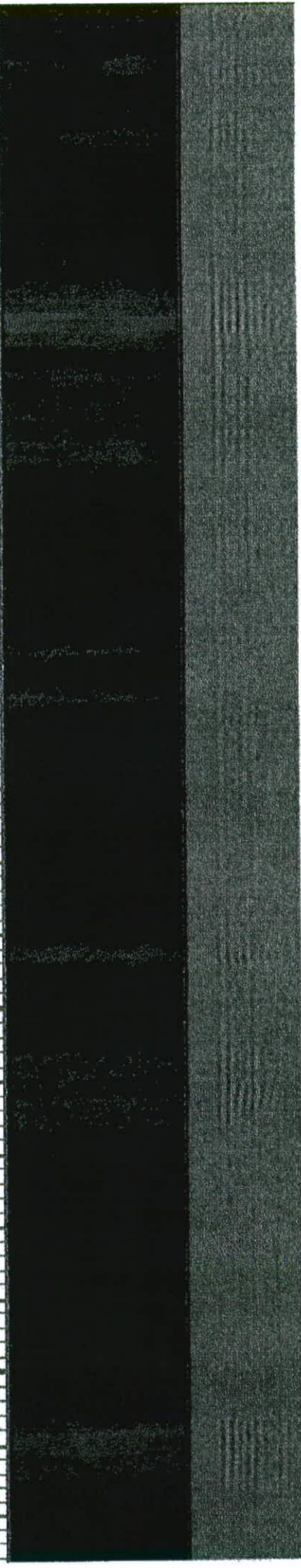
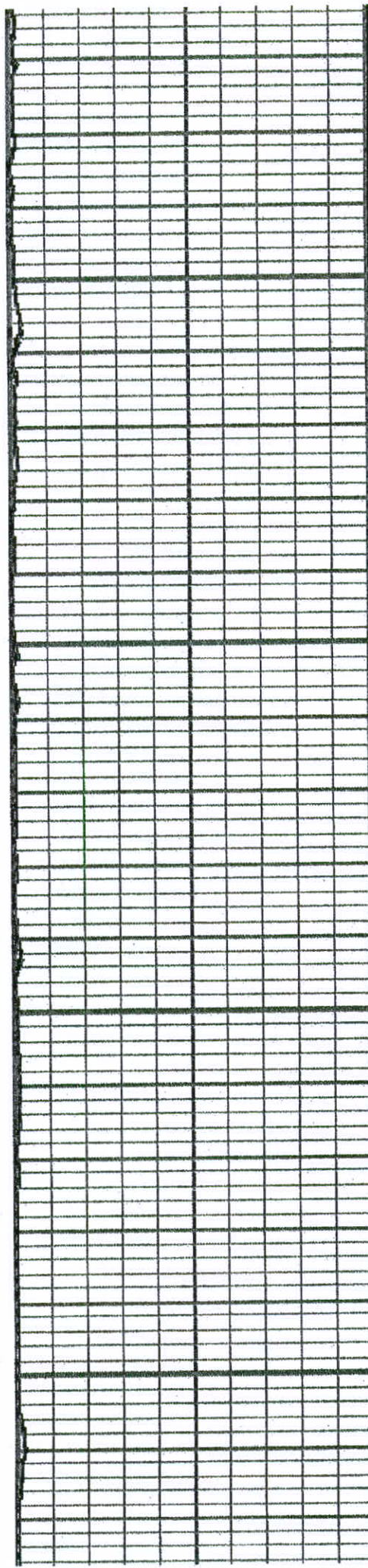


5700

5750

5800

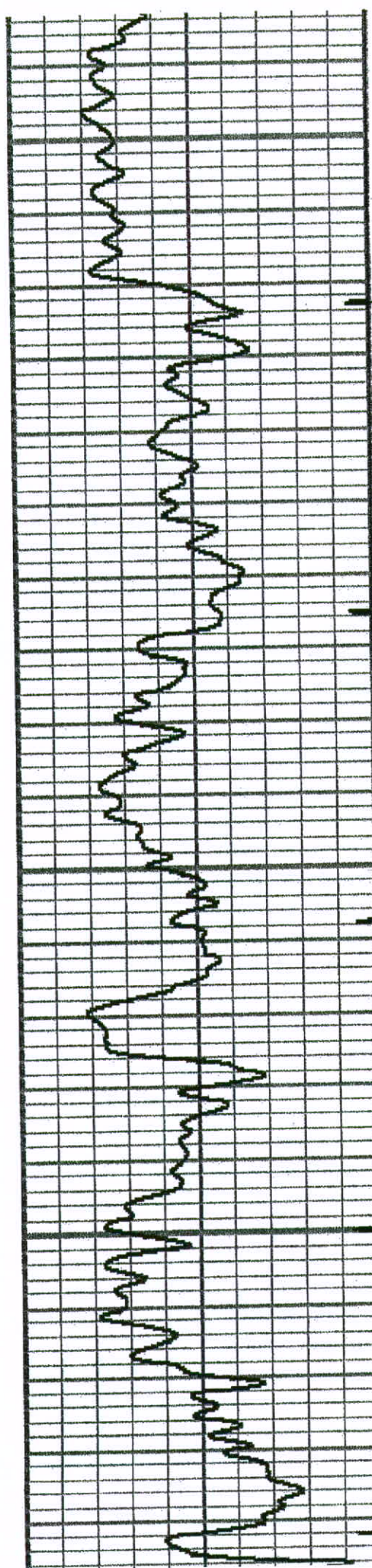
5850



RECEIVED

OCT 16 2009

COGCC

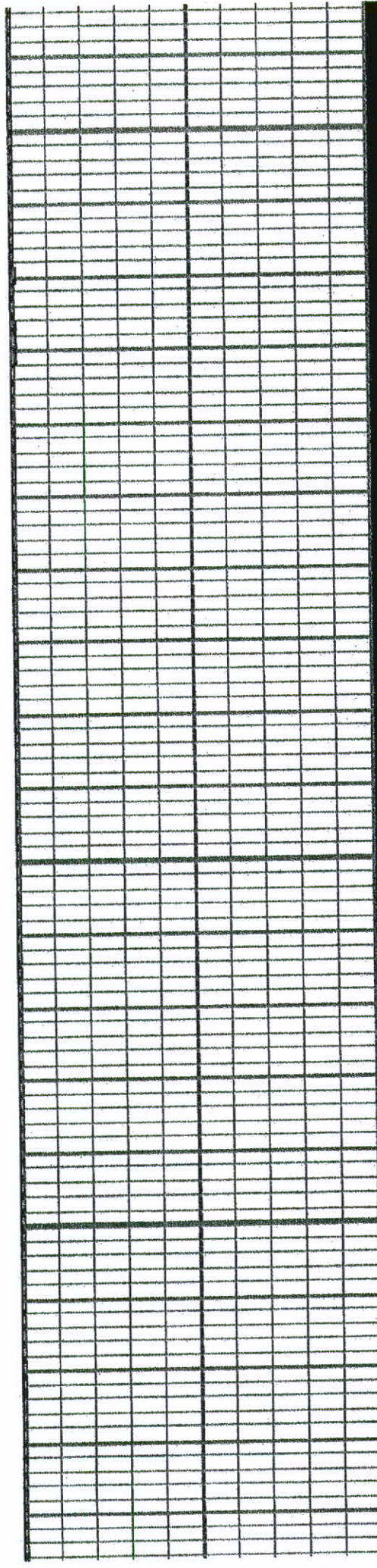


5900

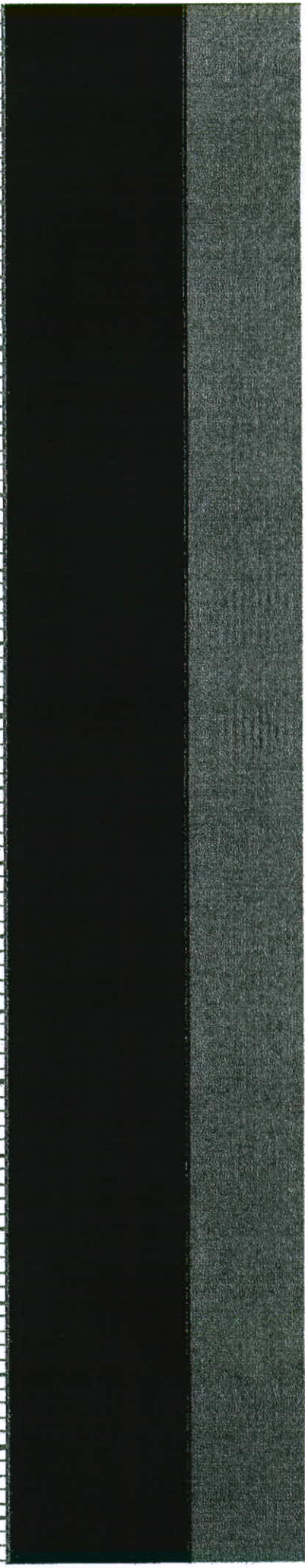
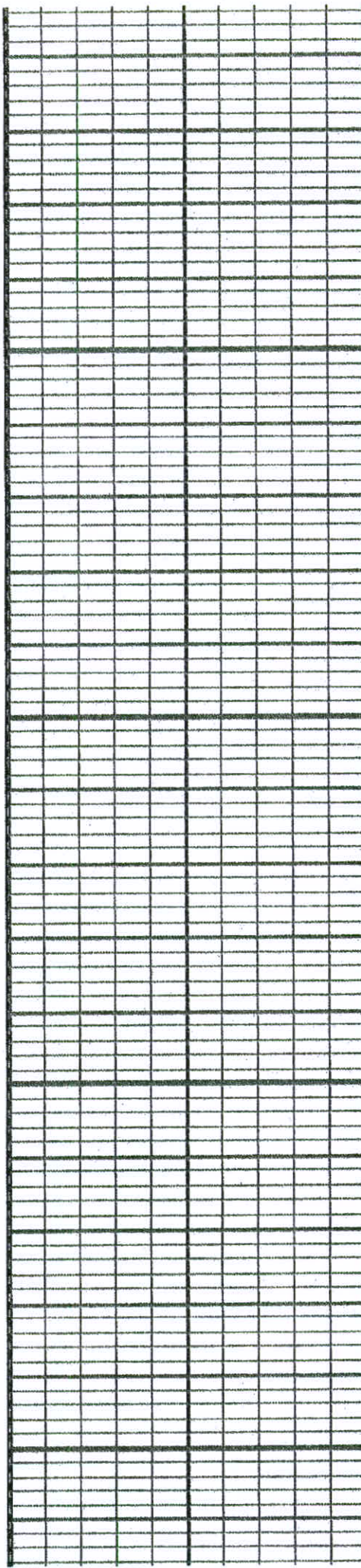
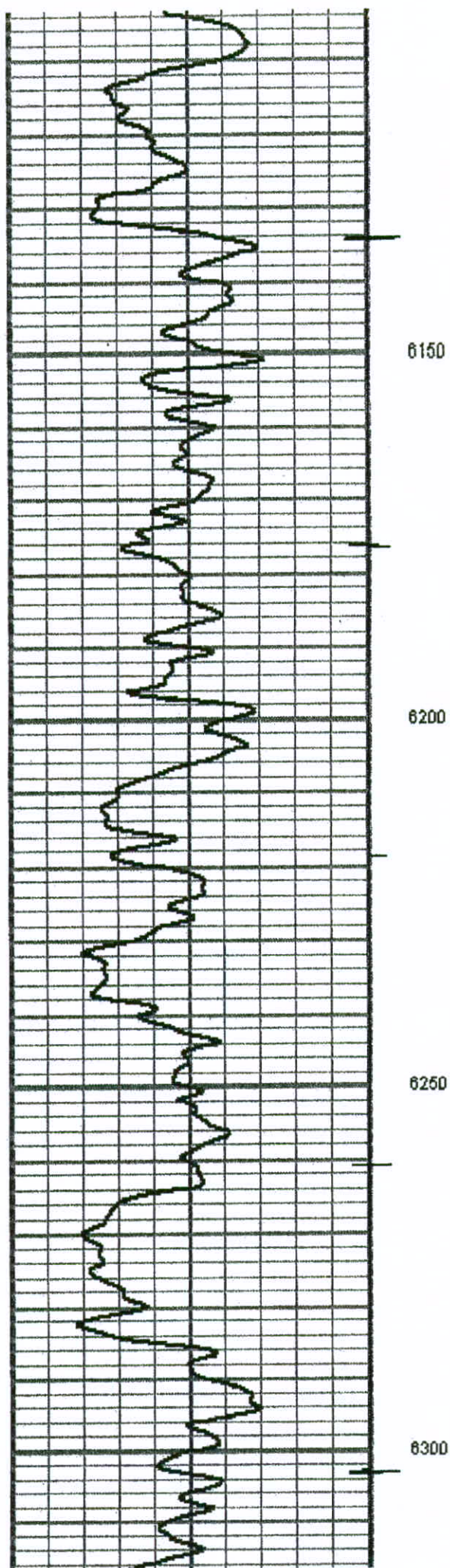
5950

6000

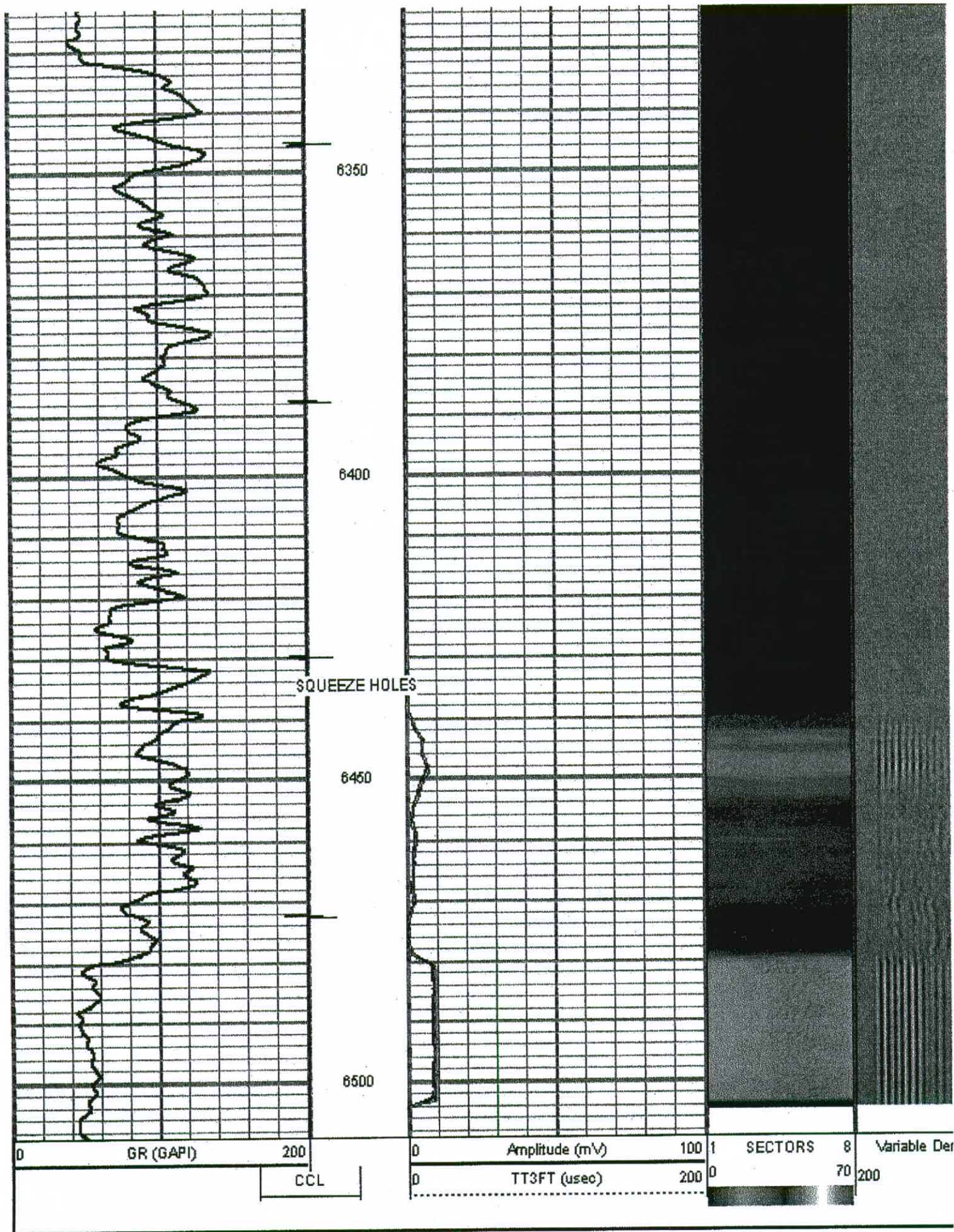
6050



RECEIVED
OCT 16 2009
COGCC



RECEIVED
OCT 16 2009
COGCC



RECEIVED
OCT 16 2009
COGCC

Andrews, David

From: Andrews, David
Sent: Wednesday, October 14, 2009 2:39 PM
To: 'Tannehill, Julie '
Cc: Dillon,David; King, Kevin; Krabacher, Jay; Odegard, Chad ; Foreman, Jay ; Harris, Steven ; Brady, Scott (Lowell); Yokley, Joe ; Koehler, Bob; Hejl, Kent
Subject: RE: Low TOC : Rulison Wells

Follow Up Flag: Follow up
Flag Status: Flagged

Julie,

Your forward plan is acceptable. Please email a Sundry Notice with this cement squeeze procedure for my formal approval. Consider this email your verbal approval to proceed.

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: Thursday, October 08, 2009 2:57 PM
To: Andrews, David
Cc: Dillon,David; King, Kevin; Krabacher, Jay; Odegard, Chad ; Foreman, Jay ; Harris, Steven ; Brady, Scott (Lowell); Yokley, Joe ; Koehler, Bob; Hejl, Kent
Subject: RE: Low TOC : Rulison Wells

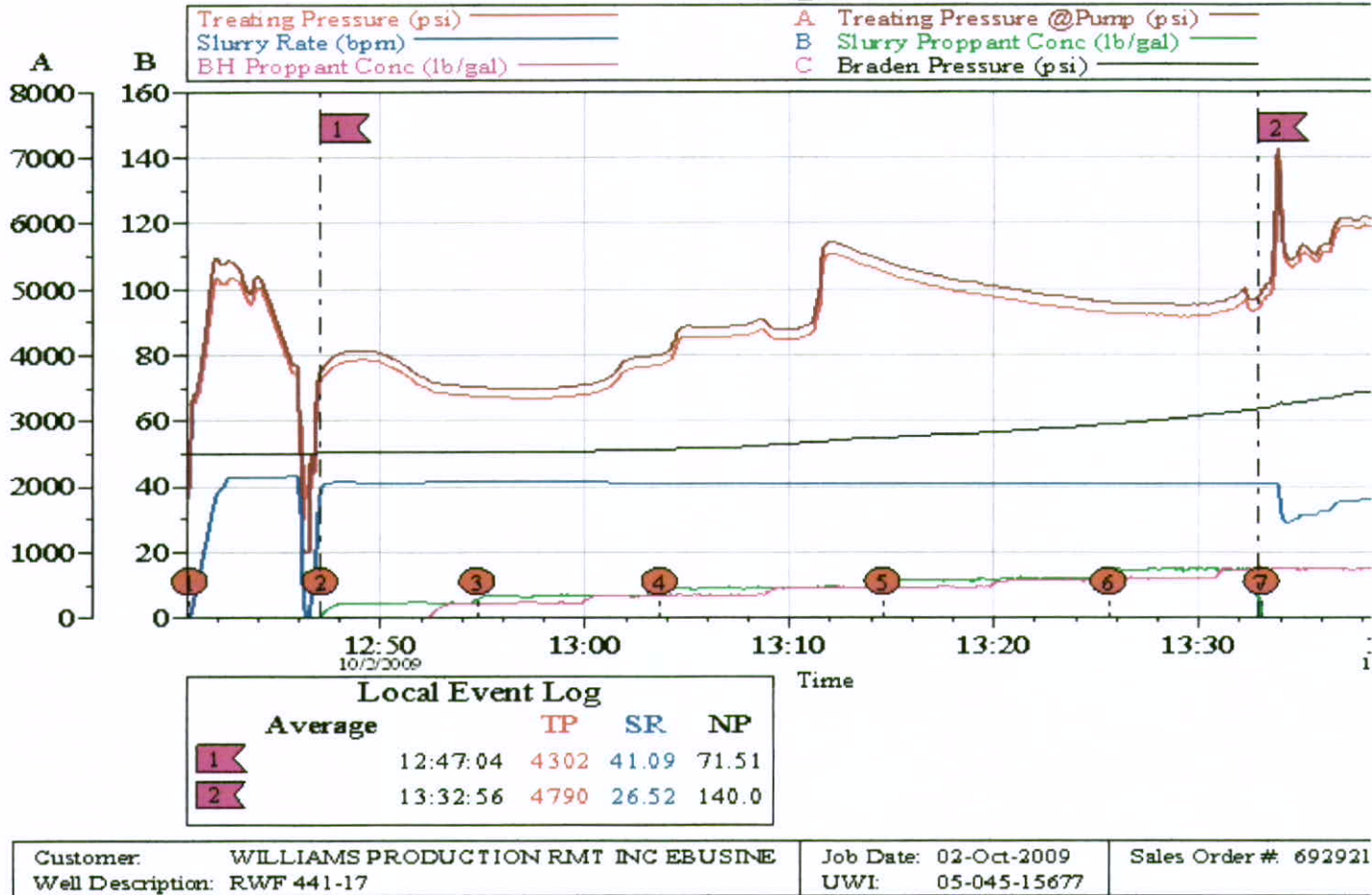
Mr. Andrews,

I wanted to make you aware of our plans to remediate the **RWF 441-17** prior to completing the MV 6 (Final Stage). On Friday October 2, 2009 during our frac on the MV5 stage we saw no noticeable or alarming change in bradenhead pressure. The bradenhead was shut-in for the frac and pressure built up about 100 psi. See the treating chart below. It was opened back up after the frac and bleed-down. This well flowed-back over the weekend and on Monday morning, October 5, 2009, our consultant noticed a higher stream of gas bleeding down. At this point he put a pressure gauge in the line and began monitoring/recording bradenhead pressure. I've attached a spreadsheet with that data. On October 6, 2009 the well was shut-in and the bradenhead was shut-in for a 2 hour build-up and we build-up to about 1100 psi. It was as this point that we decided not to proceed with the RWF 441-17 MV6 frac and attempt a cement squeeze.

Prior to cement squeezing, we will pressure test the casing to ensure no leaks. TOC of this well is around 5210'. We will be shooting squeeze holes around 6435' and anticipate our squeeze cement height will reach 5970'. We will continue to monitor our bradenhead pressure and determine if we want to continue with completion operations on the MV 6 stage.

Please let me know if you are okay with the plan outlined above. Let me know if you have any further questions.

Averages Chart



From: Andrews, David [mailto:David.Andrews@state.co.us]
Sent: Tuesday, September 29, 2009 3:48 PM
To: Tannehill, Julie
Cc: Dillon,David; King, Kevin; Krabacher, Jay
Subject: RE: Low TOC : Rulison Wells

Julie,

Thanks for the update.

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>

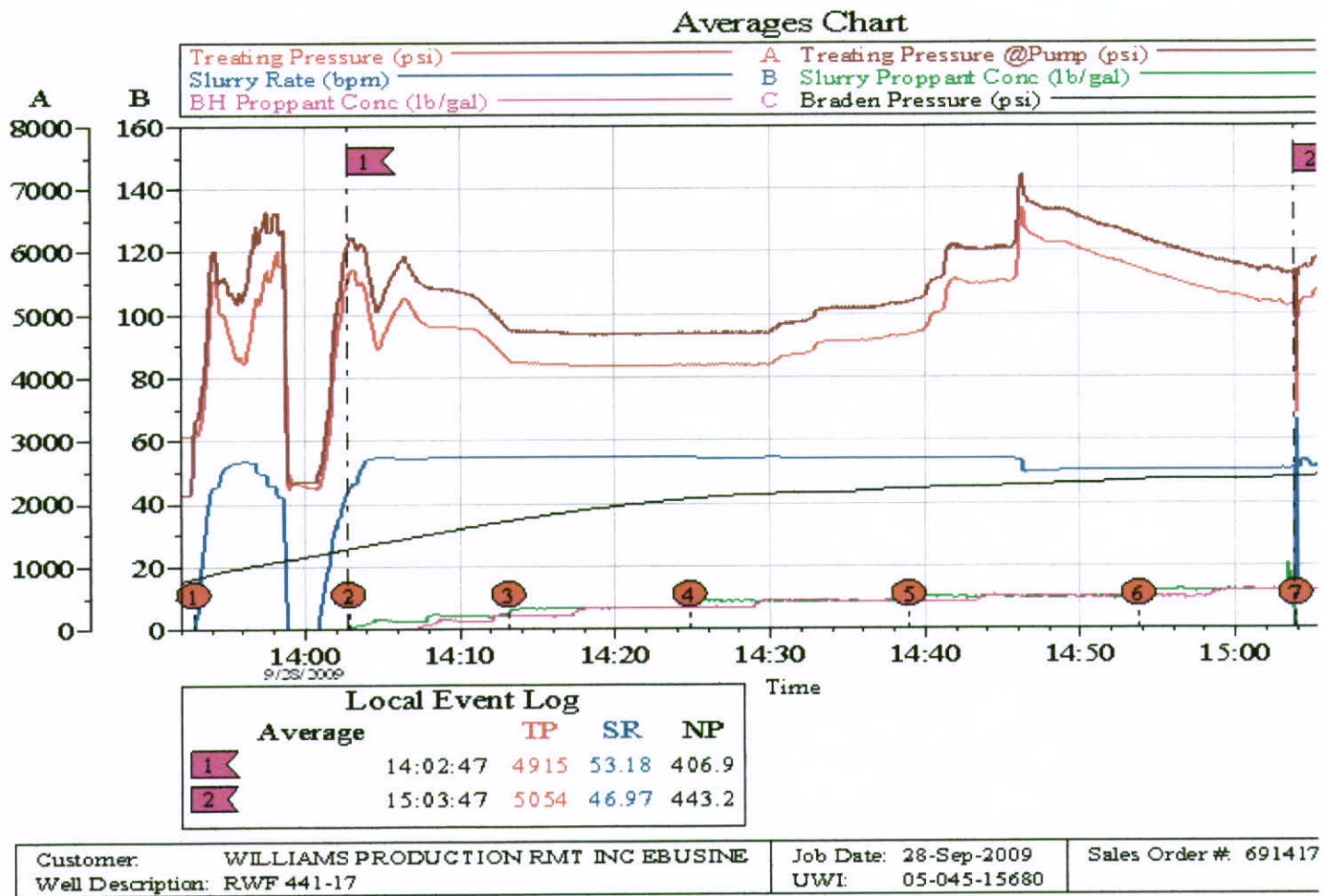
From: Tannehill, Julie [mailto:Julie.Tannehill@Williams.com]
Sent: Tuesday, September 29, 2009 2:12 PM
To: Andrews, David
Cc: Odegard, Chad ; Foreman, Jay ; Harris, Steven ; Koehler, Bob; Brady, Scott (Lowell); Yokley, Joe
Subject: RE: Low TOC : Rulison Wells

Mr. Andrews,

I wanted to make you aware of the current bradenhead information on the RWF 441-17 as of yesterday, September 28, 2009.

Our consultant shut-in the well 30 minutes prior to stimulating the MV 3 stage on the RWF 441-17. The pressure built up to 283 psi. Over the course of about 1 hr and 20 minutes the pressure built up to a total of 444 psi an incremental of 161 psi over the course of frac'ing. We do have a plans on remediating this well after all our fracture stages have been performed. There does not appear to by any kind of correlation between increasing proppant concentration and pressure build-up. I've attached a copy of the treatment chart. We will continue to monitor bradenhead pressure during the course of completion operations. I will forward you the cement squeeze procedure for remediating this well within a couple of days.

Thank you,
Julie Tannehill



From: Andrews, David [mailto:David.Andrews@state.co.us]

Sent: Tuesday, September 22, 2009 9:06 PM

To: Tannehill, Julie

Cc: Odegard, Chad ; Foreman, Jay ; Conger, Jeremy ; Harris, Steven ; Brady, Scott (Lowell); Yokley, Joe ; Caplis, Chris ; Moss, Brad ; Baldwin, Zachariah ; Woodworth, Ty ; Rautio, Sally ; Tischler, Alf ; Harms, Jason ; VonFeldt, Ted ; Koehler, Bob

Subject: RE: Low TOC : Rulison Wells

Julie,

Thanks for the additional information and your revised plan for RWF 31-17. Please continue with your operations in accordance with your plans described below. If the net bradenhead pressure change on RWF 441-17 increases more than 200 psi during stimulation, then additional reporting will be required per our new Rule 341.

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: Tuesday, September 22, 2009 4:27 PM

To: Andrews, David

Cc: Odegard, Chad ; Foreman, Jay ; Conger, Jeremy ; Harris, Steven ; Brady, Scott (Lowell); Yokley, Joe ; Caplis, Chris ; Moss, Brad ; Baldwin, Zachariah ; Woodworth, Ty ; Rautio, Sally ; Tischler, Alf ; Harms, Jason ; VonFeldt, Ted

Subject: RE: Low TOC : Rulison Wells

Mr. Andrews,

Thank you for responding. We have initiated operations on these 3 wells in question.

- We will proceed as planned for the RWF 431-17.
- Attached is the completion procedure for the RWF 31-17. I have elected to not stimulate the zone between 6780' and 6920'. My new top perf is 7018.'
- The RWF 441-17 is still being bleed-off. Frac operations on the Cameo stage took place Saturday, September 19. The bradenhead pressure build-up to 150 psi in 5 minutes and during the course of frac'ing (approximately 1.5 hours) the bradenhead build-up and extra 100 psi; total pressure climbed to 250 psi.

Frac operations are schedule tomorrow for the MV 2 stages for this pad. Please advice on the current plan.

Regards,
Julie Tannehill

From: Andrews, David [mailto:David.Andrews@state.co.us]

Sent: Monday, September 21, 2009 4:29 PM

To: Tannehill, Julie

Subject: RE: Low TOC : Rulison Wells

Julie,

Sorry for the delay on this reply.

Your plan for RWF 431-17 is acceptable. Please proceed with your completion operations for this well.

At a first glance, I am not very comfortable with your proposed completion within 59' of the top of good cement on RWF 31-17. The cement bond for the lead cement above 6735' appeared to be marginal on the bond log. Please reply with your completion plan (list of individual frac stages) for the RWF 31-17 well.

Please reply with an update on the current bradenhead pressure and your pressure build-up and bleed-off observations for RWF 441-17.

Thanks,

David D. Andrews, P.E., P.G.
Engineering Supervisor - Northwest Area

State of Colorado
Oil and Gas Conservation Commission

NEW CONTACT INFORMATION:

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: Wednesday, September 09, 2009 2:56 PM

To: Andrews, David

Subject: Low TOC : Rulison Wells

Mr. Andrews,

We have a low cement top (TOC) on 3 wells in the Rulison field. Details are listed below. This email is to inform you that:

- These are new drill wells and initial completion operations have begun.
- **Fracture** Completion operations will commence **tomorrow 9/10/09**.
- Cement top on the production casing **did not** cover the geologist's pick for Mesa Verde top.
- Cement top **did** cover the geologist's pick for top of gas (KMVGAS)
- Cement top **did** cover all zones that we have an interest in completing.

Surface casing pressure is on a vacuum for two wells RWF 431-17 and RWF 31-17. Surface casing pressure did increase to ~400 psi over a 24 hour period; casing pressure has been bled off; and will continue to be bled off during the course of our operations.

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

- Monitor surface casing pressure during the completion process.
- Proceed with the completion as planned and trace the fracture stimulation to estimate fracture height.
- Check surface casing pressure **30 and 90 days** after completion operations are finished.

SEC	TWN	RNG	WELL	API	CBL TOC	TOP OF MVRD	SHORT	TOP PERF	CMT ON TOP PE
17	6S	94W	RWF 431-17	05045156780000	5280'	5160'	320'	6580'	
17	6S	94W	RWF 31-17	05045156790000	6735'	5449'	1486'	6794'	
17	6S	94W	RWF 441-17	05045156770000	5210'	5192'	218'	6566'	

*Note: Assuming 200' above MVRD for cement coverage.

At this time, we do not plan to remediate unless we see pressure continue to build up on the surface casing and we have discussed remediation needs with you. Please advise if this plan is acceptable.

Due to the size of the CBL images, I will send each one individually in separate emails.

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