



02617294



# State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

RECEIVED

JUN 10 2011

COGCC

## INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Permit Application) or you must have a previously approved Injection Well Permit.

- Operator may not commence injection into this well until this form is approved.
- Each individual injection well must be approved by this form.

Complete the  
Attachment Checklist

Operator OGCC

Current Wellbore Diagram	✓	
Proposed Wellbore Diagram	✓	

Well Name and Number: GM 239-36 API No: 05-045-14693  
 UIC Facility No: 159369 (as assigned on an approved Form 31)  
 Project Name: GM 239-36 Injection Well Operator Name: Williams Production RMT  
 Field Name and Number: Grand Valley 31290 County: Garfield  
 QtrQtr: NESW Sec: 36 Twp: 6S Range: 96W Meridian: 6th PM

### CURRENT WELLBORE INFORMATION

Cement Top Determined By:

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	CBL	CIRCULATED	CALCULATED
Surface Casing	9.625 in	1,122 ft	325	Surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intermediate Casing (if any)	N/A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production Casing	4.5 in	7,092ft	853	2,300 ft	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plug Back Total Depth: 5003 4,850 ft (proposed) Tubing Depth: 3874 3,880 ft (proposed) Packer Depth: 3884 3,880 ft (proposed)

Upper Mesaverde Formation Gross Perforation Interval: 3923 3,900 ft to 4822 4,830 ft

Formation Gross Perforation Interval: \_\_\_\_\_ to \_\_\_\_\_

Formation Open Hole Interval (if any): \_\_\_\_\_ to \_\_\_\_\_

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

1. N/A

2.

3.

4.

Describe below any changes to the wellbore which will be made upon conversion. (This includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations.)

- Proposed - Set CIBP at +/- 4,850 ft and dump 2-4 sks cement on plug to isolate producing perforations
- Proposed - Add perforations from 4,530 ft to 4,830 (28 holes), 4,210 ft to 4,500 ft (28 holes), and 3,900 ft to 4,190 ft (28 holes). Fracture stimulate each interval.
- Proposed - Set packer and 2 7/8" tbg at +/- 3,880 ft

4.

Comments:

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

Print Name: Karolina Blaney

Signed: Karolina Blaney Title: Environmental Specialist Date: 6/8/2011

OGCC Approved: Denise M. Dwyer Title: UIC Supervisor Date: DEC 21 2011

MAX. SURFACE INJECTION PRESSURE: 1411 psig If Disposal Well, MAX. INJECTION VOL. LIMIT: 72.2X10<sup>6</sup> bbl

CONDITIONS OF APPROVAL, IF ANY:



## Onyskiw, Denise

---

**From:** Olson, Ryan [Ryan.Olson@williams.com]  
**Sent:** Wednesday, December 21, 2011 3:40 PM  
**To:** Onyskiw, Denise  
**Subject:** GM 239-36 WBS  
**Attachments:** GM 239-36 Wellbore Schematic.xlsx

Denise-

I updated the tubing, packer, perf and CIBP depths to match the actual. If you need any further information, please let me know

Thanks,

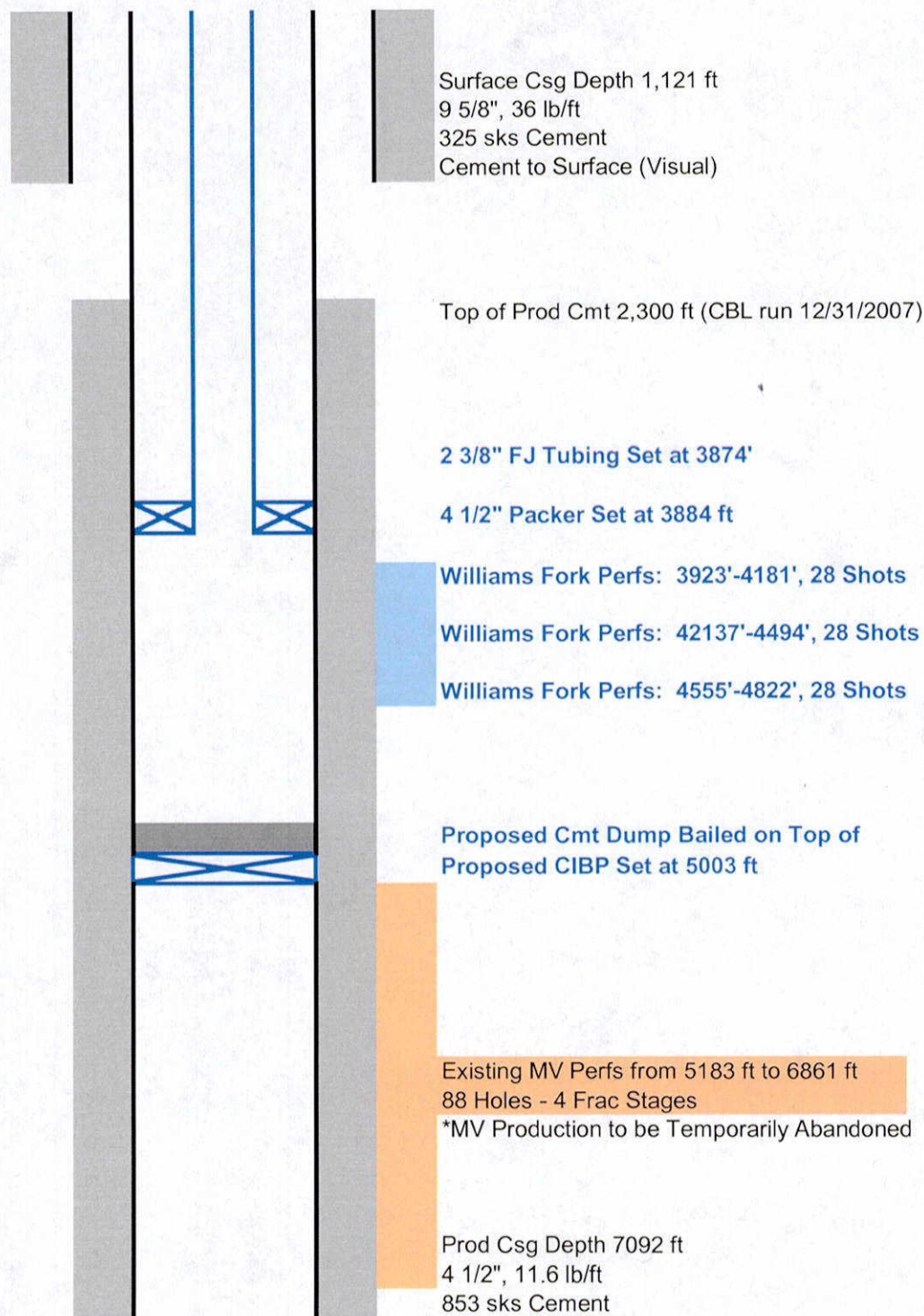
### **Ryan Olson**

Operations Engineer  
Williams Production RMT  
1058 County Road 215  
Parachute, CO 81635  
Office: (970)623-8991  
Mobile: (970)987-4603  
Fax: (970)285-9573

# GM 239-36 Wellbore Schematic

12/21/2011

Current Configuration

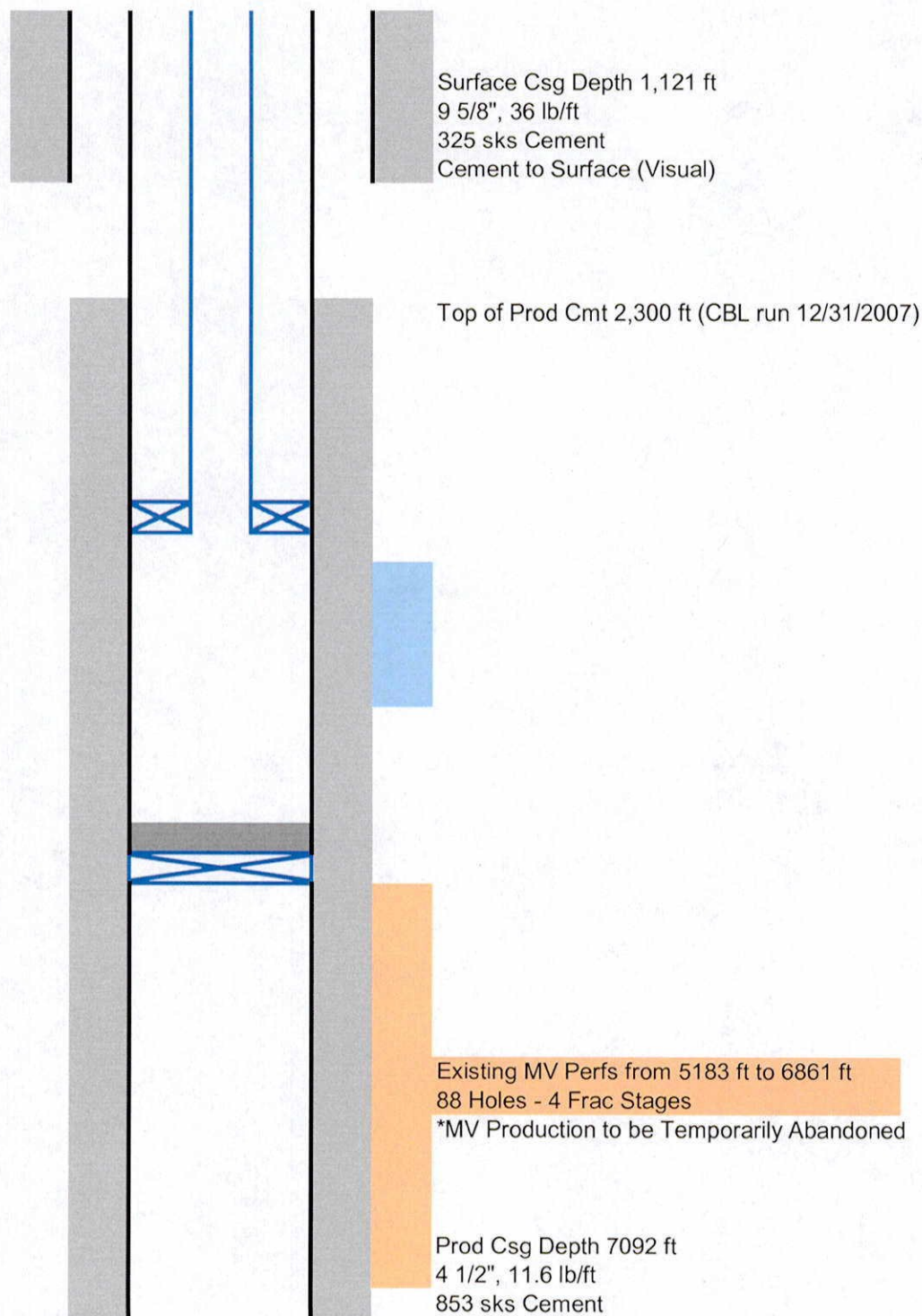




# GM 239-36 Wellbore Schematic

5/18/2011

Final Configuration





# State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

## INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Permit Application) or you must have a previously approved Injection Well Permit.

1. Operator may not commence injection into this well until this form is approved.
2. Each individual injection well must be approved by this form.

Well Name and Number: GM 239-36 API No: 05-045-14693  
UIC Facility No: \_\_\_\_\_ (as assigned on an approved Form 31)  
Project Name: GM 239-36 Injection Well Operator Name: Williams Production RMT  
Field Name and Number: Grand Valley 31290 County: Garfield  
QtrQtr: NESW Sec: 36 Twp: 6S Range: 96W Meridian: 6th PM

### Complete the Attachment Checklist

	Oper	OGCC
Current Wellbore Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proposed Wellbore Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### CURRENT WELLBORE INFORMATION

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	Cement Top Determined By:		
					CBL	CIRCULATED	CALCULATED
Surface Casing	9.625 in	1,122 ft	325	Surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intermediate Casing (if any)	N/A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production Casing	4.5 in	7,092ft	853	2,300 ft	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plug Back Total Depth: 4,850 ft (proposed) Tubing Depth: 3,880 ft (proposed) Packer Depth: 3,880 ft (proposed)

Upper Mesaverde Formation Gross Perforation Interval: 3,900 ft to 4,830 ft

Formation Gross Perforation Interval: \_\_\_\_\_ to \_\_\_\_\_

Formation Open Hole Interval (if any): \_\_\_\_\_ to \_\_\_\_\_

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

1. N/A

2.

3.

4.

Describe below any changes to the wellbore which will be made upon conversion. (This includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations.)

1. Proposed - Set CIBP at +/- 4,850 ft and dump 2-4 sks cement on plug to isolate producing perforations

2. Proposed - Add perforations from 4,530 ft to 4,830 (28 holes), 4,210 ft to 4,500 ft (28 holes), and 3,900 ft to 4,190 ft (28 holes). Fracture stimulate each interval.

3. Proposed - Set packer and 2 7/8" tbg at +/- 3,880 ft

4.

Comments:

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

Print Name: Karolina Blaney

Signed: Karolina Blaney Title: Environmental Specialist Date: 6/8/2011

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

MAX. SURFACE INJECTION PRESSURE: \_\_\_\_\_ If Disposal Well, MAX. INJECTION VOL. LIMIT: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

# GM 239-36 Wellbore Schematic

5/23/2011

Current and Proposed Configuration

