	IT SUSPENSE ENGINEER DEGED IT THE PL ANNO JIZI 888439
	ABOVE THIS LINE FOR DIVISION USE ONL
	- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
	ADMINISTRATIVE APPLICATION CHECKLIST
T	HIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	cation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A]         [A]       Location - Spacing Unit - Simultaneous Dedication         Image: SD       Image: SD
	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D] Other: Specify
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply of Does Not Apply [A] Uvrking, Royalty or Overriding Royalty Interest Owners
	[B] Offset Operators, Leaseholders or Surface Owner
	[C] Application is One Which Requires Published Legal Notice
	[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] Waivers are Attached
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.
[4] appro appli	<b>CERTIFICATION:</b> I hereby certify that the information submitted with this application for administrative oval is <b>accurate</b> and <b>complete</b> to the best of my knowledge. I also understand that <b>no action</b> will be taken on this cation until the required information and notifications are submitted to the Division.

. ....

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

AACT							
Print or Type Name	Signature		Title	Date			

e-mail Address

### Jones, William V., EMNRD

From:	Alberto A. Gutierrez, RG [aag@geolex.com]	
Sent:	Thursday, June 14, 2012 4:56 PM	
То:	Gonzales, Elidio L, EMNRD; Jones, William V., EMNRD	
Cc:	ELIZABETH B. HAWKINS; CWhite@targaresources.com; jlingnau@targaresources.com E.'	; WILLIAM C. SCOTT ESQ.; 'Bentley, Russell
Subject: Attachments:	RE: C-103 SUBSEQUENT for reservoir testing at Targa's Monument AGI #1 API # 30-02 C-103 Testing API 3002540002#2 highratesubsequent.pdf	5-40002
Importance:	High	0/36/195/36E

### E. L. and Will.

Please find attached the C-103 subsequent for the successful SRT at the Monument well which we finished last Friday. As you will see from the attached, we had 3 steps below and 3 steps above the break point which was very clear in the data. Based on these results Targa is requesting an increase in the MAOP which will still be protective of the injection zone and all zones above and below of 3000 psig. Please let us know if you have any questions or require additional information. Please let us know what is required further to get the new MAOP approved so we can hopefully put away the TAG and water that we need without any stimulation of the reservoir. Thanks in advance for your prompt attention to our request.

Regards, Alberto

Alberto A. Gutiérrez, RG Geolex, Incorporated<sup>®</sup> 500 Marquette Avenue, NW Suite 1350 Albuquerque, NM 87102 505-842-8000 Ext. 105 505-842-7380 Fax

8350-9200' OPENHOLE R-13052 11/1-6/08 Case [4+16]

#### **PRIVILEGED & CONFIDENTIAL**

This message and attachment(s) contain confidential information belonging to the sender which is intended for the sole use of the individual(s) or entity named above. If you receive this message in error, you are hereby notified that any disclosure, copying, distribution, resending, forwarding or taking of any action in reliance on the contents of this email and/or any attachment(s) is strictly prohibited. If you have received this message in error, please notify the sender via return email and permanently delete this message and any attachment(s) from any computer(s).

06/13/2012 Submit I Conv To Appropriat	to District			Monument AGI #1	C-103 Subsequent for	SRT	
Office	të District	Form C-103					
<u>District I</u> (575) 393-6161 1625 N. French Dr., Hobbs, N. District II	Irict I - (575) 393-6161         Energy, Minerals and Natural Resources           5 N. French Dr., Hobbs, NM 88240         French Dr., Hobbs, NM 88240           trict II - (575) 748-1283         French Dr., Hobbs, NM 88240				Revised August 1, 2	2011	
$\frac{\text{District II}}{811 \text{ S. First St., Artesia, NM 8}}$	S. First St., Artesia, NM 88210 OIL CONSERVATION DIVISION				flooro		
District III - (505) 334-6178	<u>ct III</u> – (505) 334-6178 1220 South St. Francis Dr.				$1  \text{Erg}  \overline{M}  \mathbf{R}$	IM	
1000 Rio Brazos Rd., Aztec, 1 District IV (505) 476-2460	00 Rio Brazos Rd., Aztec, NM 87410 Strict IV = (505) 476-3460 Santa Fe, NM 87505						
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2. Name of Operator Ta	arga Midstream S	9. OGRID Number					
		·		24650			
3. Address of Operator	1000 Louisiana,	Ste. 4300, Houston, TX 7700	)2	10. Pool name or	Wildcat		
	· · ·			Wildcat AGI in De	evonian/Fusselman		
4. Well Location	· · · · · · · · · · · · · · · · · · ·						
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## Monument AGI#1 Step Rate Test June 8, 2012

The Monument AGI #1 test was conducted on June 8, 2012 after approved C-103 and notice to the District and Santa Fe. A subsequent C-103 has been prepared and submitted to the District (copy attached). Division representatives reviewed and approved the SRT procedure and were notified of the test to allow for OCD to witness the test. While OCD staff were not physically present during the test, I conferred several times over the telephone during the test with Mr. E.L. Gonzales to discuss the approach and preliminary results. Injection rates during the SRT began at 2.0 bpm to establish a rate for 20 minutes and then ranged from 7 to 10.5 bpm, with 0.5 bpm steps, each lasting 20 minutes. The surface injection pressure. The raw data are included in Appendix A.

A minimum surface pressure of 2009 psig was recorded at the initial test injection rate of 7 bpm and a maximum surface pressure of 5150 psig was recorded during the SRT at an injection rate of 10.5 bpm. The formation fracture pressure at the surface was calculated by graphical interpretation of the rate vs. pressure graph shown in Figure 1. This figure clearly shows that the test achieved the OCD requirement of having at least 3 steps below and 3 steps above the fracture pressure at the surface calculated to be approximately 3717 psig. The SRT was conducted using brine estimated at 10 lbs/gallon.

Based on the anticipated mix of TAG and brine of 70:30, a calculation using OCD's rule of thumb formula included in Table 1 would yield an MAOP of 2893 psig. Clearly this pressure is far below the calculated formation fracture pressure of 3717 psig based on the step rate test conducted on June 8, 2012 since the test was conducted with only brine rather than the TAG/brine mix which will be injected into the well. For this reason, our requested pressure of 3000 psig is a pressure that with the injected fluid will be well below the calculated formation fracture pressure at the surface of 3717 psig (24%) even if the fluid was only brine. Based on the step rate test results and the analysis summarized herein, it is clear that approval of the requested pressure increase will in no way endanger the injection zone, caprock or any overlying formations.

The injection rates and corresponding maximum surface pressures for each step demonstrate that the Devonian/Fusselman injection interval in Targa's Monument AGI #1 is capable of accepting the anticipated TAG/brine mix volumes safely at a pressure of 3000 psig without danger of fracturing the injection zone or any other zones above or below.



### Monument AGI #1 C-103 Subsequent for SRT

TAG-Water Equivalent MAOP Calculat	tions		
TAG Amount MMCFD	Water bbls/day	Ratio	MAOP (psig)
AG Only 5	0	100:0	3028
5	100	88:12	2980
5	200	78:22	2935
5	300	70:30	2893
5	400	64:36	2854
5	720	50:50	2746
/ater Only 0	400	0:100	1778
AG Only 2.5	0	100:0	3028
2.5	100	78:22	2935
2.5	200	64:36	2854
2.5	300	54:46	2784
2.5	360	50:50	2746
2.5	. 400	47:53	2722
CALCULATION OF MAXIMUM INJECTION PRESSURE L	IMITATION		
SG <sub>bif</sub> ={SG <sub>ww</sub> *Vol <sub>ww</sub> +SG <sub>TAG</sub> *Vol <sub>TAG</sub> )/{Vol <sub>ww</sub> +Vol <sub>TAG</sub> )			where TAG SG = .66 and Water =10.2
PG = 0.2 + 0.433 (1.04-SG <sub>bif</sub> )	psi/ft		
IP <sub>max</sub> = PG *Depth	psi		
Where: $SG_{bit}$ , $SG_{WW}$ , and $SG_{TAG}$ are specific gravities of respectively; $Vol_{WW}$ and $Vol_{TAG}$ are injected volumes o calculated pressure gradient; and $IP_{max}$ is calculated m	blended injection fluid, waste wa f water and TAG in bbl/day, respe Iaximum injection pressure.	ter, and TAG, ctively; PG is	

### 06/13/2012

# APPENDIX A PLOT OF SRT RAW DATA



The plot shows the sequence of the step rate test (SRT) performed on June 08, 2012. The test was started with a distributed temperature sensor (DTS) run on a slick line. The test at the injection rate of 2 bpmwas going well, however, as the rate was increased to 7 bpm, the tension in the sensor line caused the bottom hole test measurements to be aborted. The test was performed successfully as planned by measuring surface data only.

06/13/2012

### APPENDIX A RAW DATA FROM CUDD FOR MONUMENT AGI#1

Time	Pressure 1	Pressure 2	Rate 1	Rate 1 Stad	qe Rate	1 Total	Rate 2	Rate 2 Sta	ge Rate	2 Total
1	46.080000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	46.080000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6	46.080000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
9	3012.671250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	8315.093750	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	7793.780000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	2448.982500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
23	788.262500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
26	284.551250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
29	87.481250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
32	34.993750	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
36	20.413750	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
38	1676.712500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
41	4257.388750	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
44	5019.663750	0.000000	0.00000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
47	2389.865000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	797.313750	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
53	242.406250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
56	61.330000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
59	14.601250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
62	2.920000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
66	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
823	0.000000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
826	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
829	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
832	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
835	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
838	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
841	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
844	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
847	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
850	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
853	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
856	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
860	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
862	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
866	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
869	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
872	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
875	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
879	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
882	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
886	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
888	0.000000	0.00000	0.000000	0 000000	0.000000	0.000000	0 000000	0 000000	0 000000	0 000000

#### Monument AGI #1 C-103 Subsequent for SRT

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Sum\_Rate\_1\_&\_2 Total\_Rate\_1\_&\_2

## THIS APPENDIX IS 143 PAGES LONG

### TARGA MIDSTREAM SERVICES, LLP MONUMENT AGI #1 COMPLETION SCHEMATIC



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