

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87401
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-43470
1. Type of Well: Oil Well ☐ Gas Well ☐ Other: Acid Gas Injection Well ☒		5. Indicate Type of Lease STATE ☐ FEE ☒ FEDERAL ☐
2. Name of Operator Targa Midstream Services LLC		6. State Oil & Gas Lease No. NA
3. Address of Operator 1000 Louisiana, Houston, TX 77002		7. Lease Name or Unit Agreement Name Monument AGI D
4. Well Location Unit Letter <u>O</u> : <u>685</u> feet from the SOUTH line and <u>2,362</u> feet from the EAST line Section <u>36</u> Township <u>19S</u> Range <u>36E</u> NMPM County <u>Lea</u>		8. Well Number #2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,384 (GR)		9. OGRID Number 24650
		10. Pool name or Wildcat AGI: Devonian

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL. ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐		OTHER: (Step Rate Test Results) ☒	
CLOSED-LOOP SYSTEM ☐			
OTHER: (COMPLETION) ☐			

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

On January 31, 2017 a 9-step, Step Rate Test (SRT) was successfully completed at the Targa Monument AGI D #2 well. The as-built well schematic is shown on Figure 1. The NMOCD Hobbs Office was notified prior to the test via telephone and Mr. George Bower visited the site, but could not stay to witness the entire test. The open-hole injection zone between 8,350 and 9,210 feet was tested. A SRT data form (Attachment 1) was used to record the simultaneous synchronized surface and formation pressure measurements provided by Petroplex Acidizing (surface) and Renegade Services (formation). A graph depicting the Renegade bottom-hole pressures, Petroplex surface pressures, and pump rates versus time (Figure 2) and a graph depicting both surface and bottom-hole pressures versus pump rates (Figure 3) are provided.

Prior to SRT start up, the packer fluid (diesel) in the tubing was displaced with 9.8-lb/gal brine (test fluid) at the lowest possible pump rate and the well was shut-in for approximately 3 hours to allow the bottom-hole pressure to stabilize. During the SRT, surface and bottom-hole pressure sensors recorded the data continuously and the Renegade and Petroplex operators maintained communications to verify the status at 5-minute intervals within each step in the test so that rate timing decisions could be made by Geolex when necessary.

The injection rate for each step was increased instantaneously and held constant for at least a 30-minute duration of each step as shown in the surface injection rates recorded by Petroplex and included as Attachment 2. The observed surface pressure was less than 0 psig prior to the initiation of pumping of step 1 at 0.8 barrels per minute (bpm) using 9.8 lb/gal brine water. Maximum surface pressures of 5,720 psig and 2,609 psig, respectively were observed in the 8th and 9th steps at rates of 5.2 and 6.4 bpm.

The SRT did not reach a clear break-over point, which demonstrates that the formation parting pressure was never reached during the test even at the highest pumping rate. This is confirmed by the fitting of a linear relationship whose slope does not change over the entire population of observed surface or formation pressures and has a linear fit correlation coefficient in excess of 0.99 (Figure 4). The NMOCD-approved maximum allowable operating pressure (MAOP) for treated acid gas is 3,000 psig at the rate of 2.5 MMSCFD, which at bottom-hole P/T conditions is approximately 1,135 bpd (0.8 bpm) of liquid treated acid gas (TAG). The anticipated pressure required to inject this volume is approximately estimated to be 1,800 psig at the surface.

This step rate test fulfills the requirement of the NMOCC Administrative Order SWD-1654 dated November 10, 2016 and demonstrates the Monument AGI D #2 well can be safely operated at pressures within the currently approved MAOP. Targa is not requesting an

MAOP increase at this time for this well. Attachments 1-2 and Figures 2-4 provide all of the test data and graphs for parting pressure calculations. Since this well will be completed with continuous surface and bottom-hole pressure monitoring, as required by the Administrative Order SWD-1654, Targa can assure that fracture pressure is never exceeded during injection operations.

Spud Date:

November 23, 2016

Rig Release Date:

January 13, 2017

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Consultant to Targa Midstream LLC DATE 2-6-17
Type or print name Jared R. Smith E-mail address: jsmith@geolex.com PHONE: 505-842-8000

For State Use Only

APPROVED BY: **Accepted for Record Only** TITLE DATE
Conditions of Approval (if any):

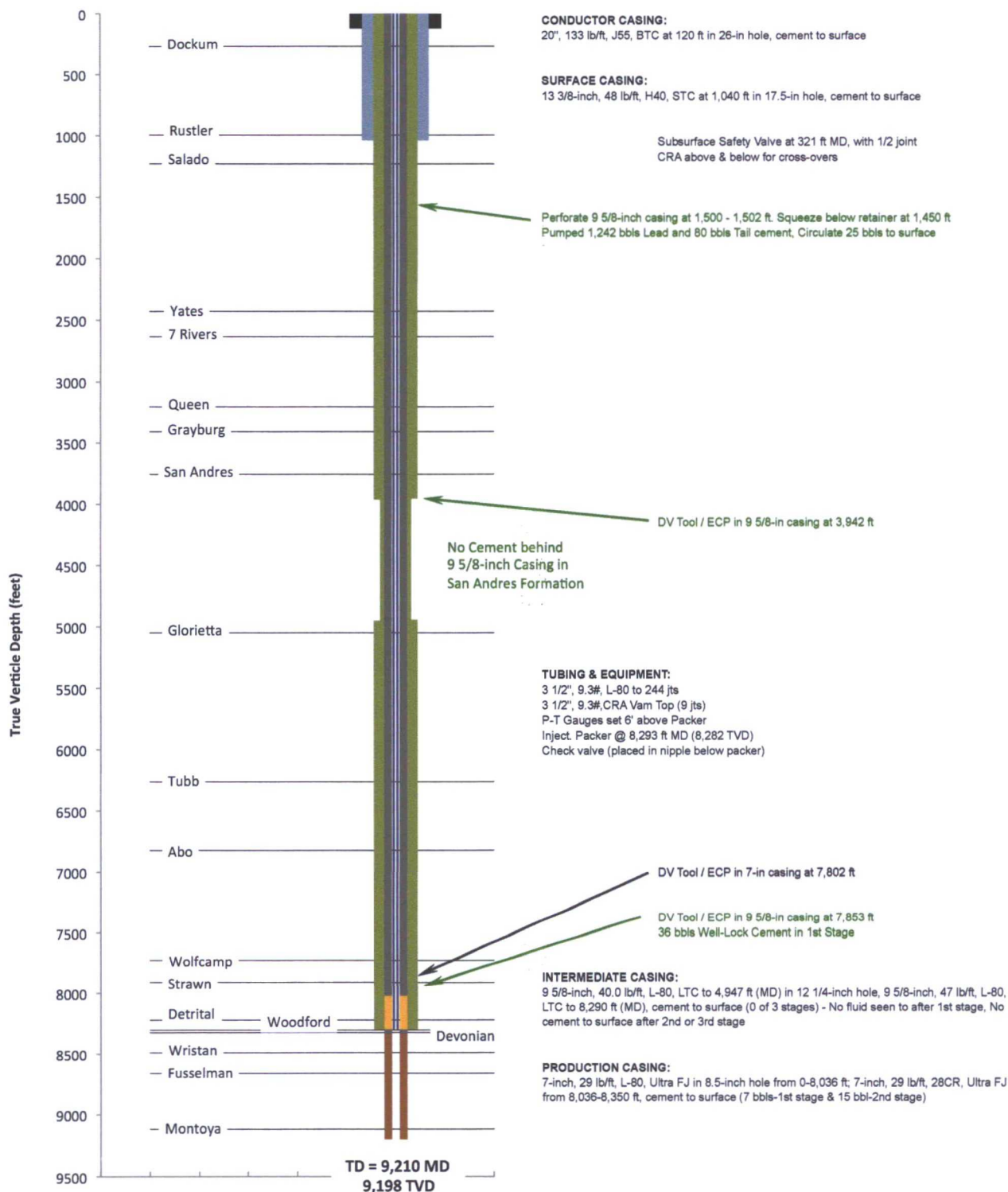

02/07/2017

FIGURES

Well Name: Targa Monument AGI #2 (API: 30-025-43470)

Surface Location: Section 36(O), T19S-R36E, (685' FSL & 2362' FEL)
Lea County, New Mexico - GL: 3,584' (KB: 25')

GEOLEX
INCORPORATED



TD Location: Section 36(O), T19S-R36E, (734' FSL & 2131' FEL)
Lea County, New Mexico - GL: 3,584' (KB: 25')



TARGA

Targa Monument AGI D #2

Wellbore Completion Schematic

Figure 1

January 31, 2017

Figure 2 - Pressures and Rates (Field Observation)

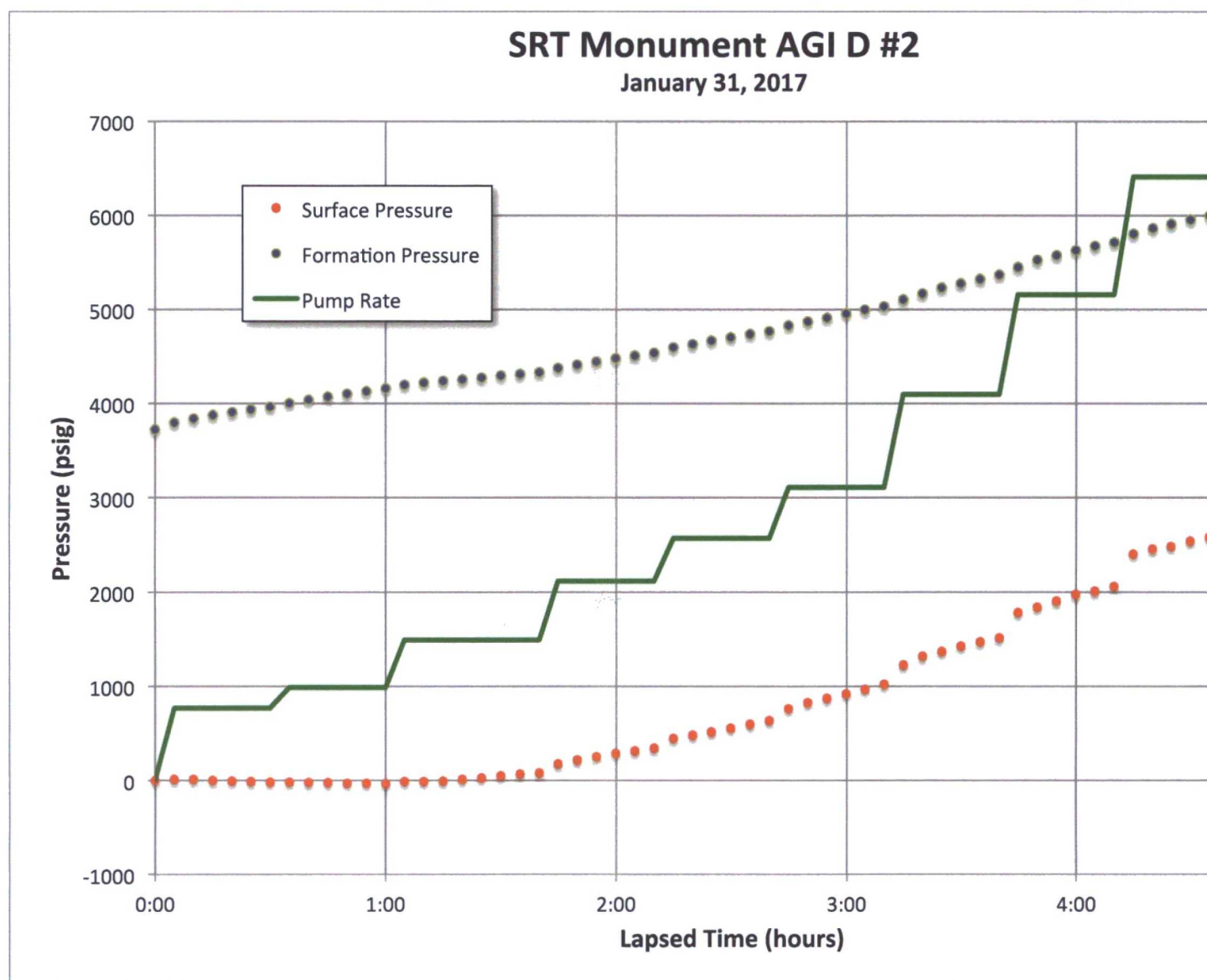
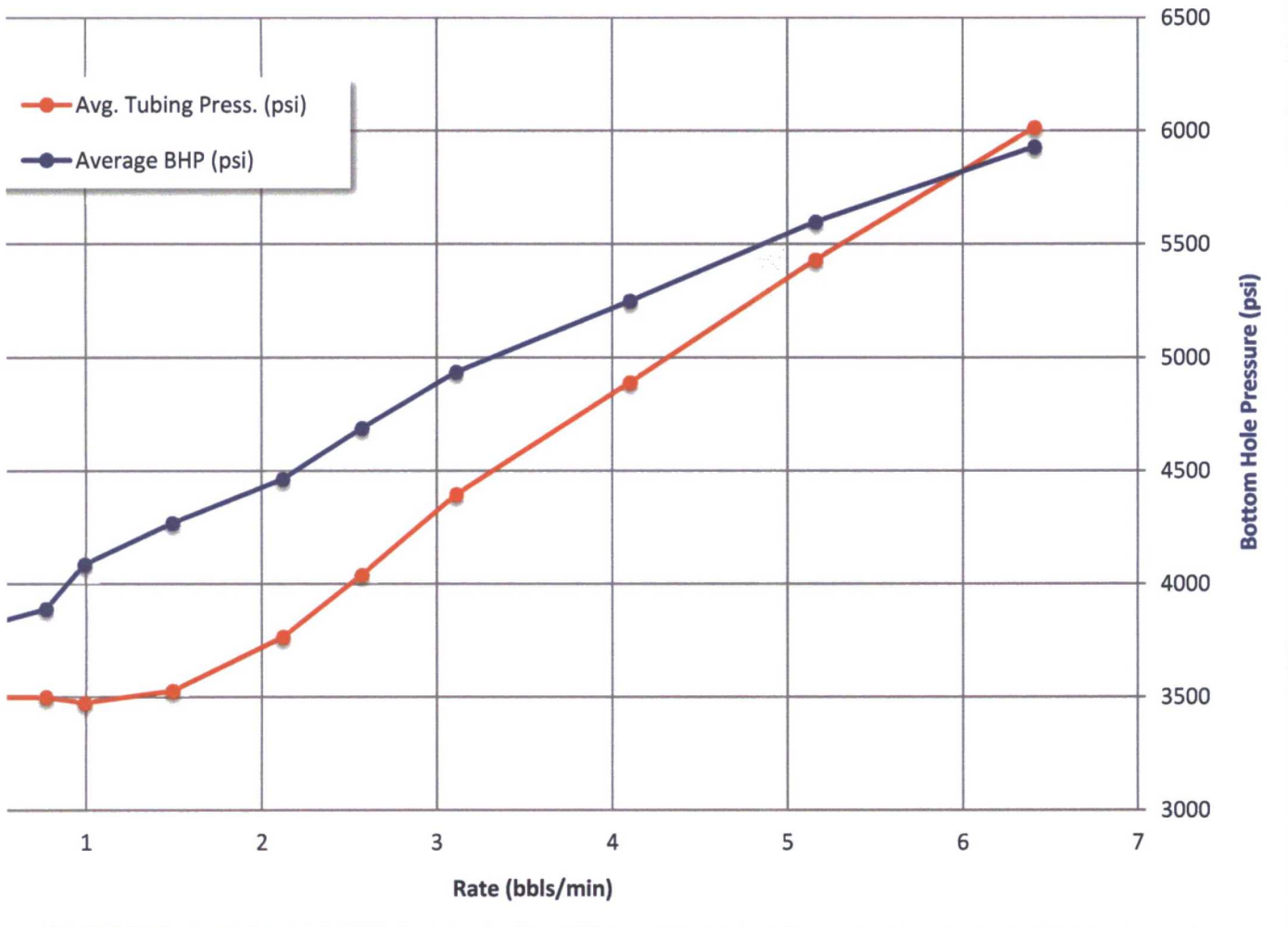


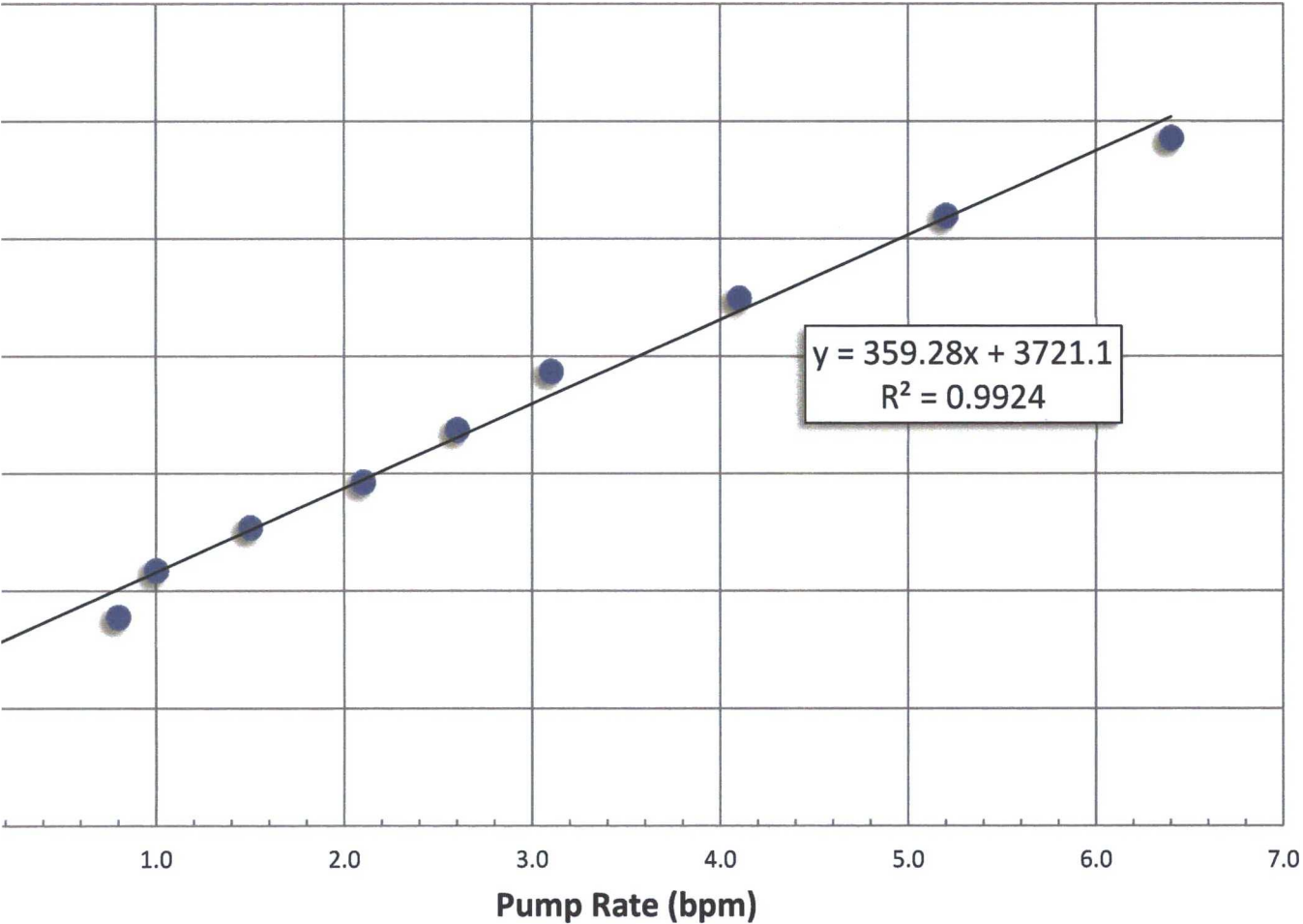
Figure 3 Graph of Observed Data From Operators

Step-Rate Test (Open Hole)
Monument AGI D #2 (1-31-17)



re 4 Graph Showing No Clear Breakover Point for Formation Parting Pressure

Formation Pressure over Pump Rate
Monument AGI D #2 (1-31-17)



ATTACHMENTS

ATTACHMENT 1

Step Rate Test Data Form

Operator: Targa Midstream
Well: Monument AGI D #2 (Open Hole)
API#: 30-025-43470
Sfc Loc: T-19-S, R-36-E, Sec 36 (685 FSL & 2362 FEL)
Date collected: 1/31/2017

Packer set at: 8281.00	Inj Pipe I.D.: 3.50
Top Injection Depth: 8339	Expected Surface Fracture psig: 1668
With Mud Wt Scale (lbs/gal): 9.8	Beginning Formation psig: 3727
Injection fluid lbs/gal: 9.8	Pressure gauge set at: 8350
Beginning Wellhead psig: 0	Hydrostatic P of fluid at top of injection(psig): 4245
	Target Maximum Rate(bpd): 8640

Step 1							
Target gpm = 21.00				0.79 bpm pmp'd for Step 1			
Target Test Rate (5% of maximum bpd/1440 =				0.5 bpm (barrels per minute) for Step 1			
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 16:35
Surface (psig):	9.1	9.1	3.0	-3.0	-9.0	-14.5	End Time: 17:05
Formation (psig):	3799	3840	3879	3910	3941	3968	Graph Data for Point #1
gpm:	33.6	33.6	33.6	33.6	33.6	33.6	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							Sfc psig: -0.88
Formation (psig):							F psig: 3889.50
gpm:							gpm: 33.60

Step 2							
Target gpm = 41.98				1.00 bpm pmp'd for Step 2			
Target Test Rate (10% of maximum bpd/1440 =				1.0 bpm for Step 2			
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 17:05
Surface (psig):	-16.9	-21.2	-24.8	-27.2	-29.6	-32.6	End Time: 17:35
Formation (psig):	4008	4040	4074	4102	4133	4161	Graph Data for Point #2
gpm:	42.0	42.0	42.0	42.0	42.0	42.0	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							Sfc psig: -25.38
Formation (psig):							F psig: 4086.33
gpm:							gpm: 42.00

Step 3							
Target gpm = 63.00				1.50 bpm pmp'd for Step 3			
Target Test Rate (20% of maximum bpd/1440 =				1.50 bpm for Step 3			
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 17:35
Surface (psig):	-11.5	-10.3	-6.0	10.9	30.8	50.2	End Time: 18:15
Formation (psig):	4203	4224	4243	4260	4279	4300	Graph Data for Point #3
gpm:	63.0	63.0	63.0	63.0	63.0	63.0	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):	67.1	81.6					Sfc psig: 26.60
Formation (psig):	4317.0	4333.0					F psig: 4269.88
gpm:	63.0	63.0					gpm: 63.00

Operator: Targa Midstream
Well: Monument AGI D #2 (Open Hole)
API#: 30-025-43470
Sfc Loc: T-19-S, R-36-E, Sec 36 (685 FSL & 2362 FEL)
Date collected: 1/31/2017

Step 4		Target gpm = 83.92			2.10 bpm pmp'd for Step 4		
Target Test Rate (40% of maximum bpd/1440 =					2.0 bpm for Step 4		
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 18:15
Surface (psig):	180	217	251	287	315	342	End Time: 18:45
Formation (psig):	4379	4414	4452	4485	4514	4541	Graph Data for Point #4
Rate gal/min:	88.2	88.2	88.2	88.2	88.2	88.2	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							
Formation (psig):							F psig: 4464.17
gpm:							gpm: 88.20

Step 5		Target gpm = 105.84			2.60 bpm pmp'd for Step 5		
Target Test Rate (60% of maximum bpd/1440 =					2.5 bpm for Step 5		
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 18:45
Surface (psig):	449	481	519	559	595	636	End Time: 19:15
Formation (psig)	4600	4633	4673	4708	4740	4773	Graph Data for Point #5
gpm:	109	109	109	109	109	109	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							
Formation (psig):							Sfc psig: 539.83
gpm:							F psig: 4687.83
							gpm: 109.20

Step 5 has a target bpd rate of: 4320

Step 6		Target gpm = 126.00		3.10 bpm pmp'd for Step 6			
Target Test Rate (80% of maximum bpd/1440 =		3.0 bpm for Step 6					
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 19:15
Surface (psig):	766	825	873	920	970	1020	End Time: 19:45
Formation (psig):	4831	4876	4917	4960	5000	5035	Graph Data for Point #6
Rate gal/min:	130	130	130	130	130	130	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							
Formation (psig):							F psig: 4936.50
gpm:							gpm: 130.20

Step 7		Target gpm = 168.84			4.10 bpm pmp'd for Step 7		
Target Test Rate (100% of maximum bpd/1440 =		4.0 bpm for Step 7					
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 19:45
Surface (psig):	1230	1318	1374	1431	1474	1516	End Time: 20:15
Formation (psig):	5108	5174	5234	5280	5328	5371	Graph Data for Point #7
gpm:	172	172	172	172	172	172	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							
Formation (psig):							Sfc psig: 1390.50
gpm:							F psig: 5249.17
							gpm: 172.20

Operator: Targa Midstream
Well: Monument AGI D #2 (Open Hole)
API#: 30-025-43470
Sfc Loc: T-19-S, R-36-E, Sec 36 (685 FSL & 2362 FEL)
Date collected: 1/31/2017

Step 8		Target gpm = 211.68			5.20 bpm pmp'd for Step 8		
Target Test Rate (120% of maximum bpd/1440 =		5.0 bpm for Step 8					
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 20:15
Surface (psig):	1784	1845	1909	1975	2008	2064	End Time: 20:45
Formation (psig):	5456	5527	5579	5634	5678	5720	Graph Data for Point #8
Rate gal/min:	218	218	218	218	218	218	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							Sfc psig: 1930.83
Formation (psig):							F psig: 5599.00
gpm:							gpm: 218.40

Step 9		Target gpm = 252.00			6.40 bpm pmp'd for Step 9		
Target Test Rate (140% of maximum bpd/1440 =		6.0 bpm for Step 9					
Time:	5 min	10 min	15 min	20 min	25 min	30 min	Start Time: 20:45
Surface (psig):	2408	2458	2488	2544	2582	2609	End Time: 21:15
Formation (psig):	5807	5869	5915	5959	5998	6034	Graph Data for Point #9
gpm:	269	269	269	269	269	269	
Time:	35 min	40 min	45 min	50 min	25 min	60 min	
Surface (psig):							Sfc psig: 2514.83
Formation (psig):							F psig: 5930.33
gpm:							gpm: 268.80

	Surface	BHP
Instant Shut In Pressure:	1799	5960
5 minute Shut In Pressure:	1672	5856
10 minute Shut In Pressure:	1590	5771
15 minute Shut In Pressure:	1521	5703

ATTACHMENT 2



STEP RATE

CAMBRIAN MANAGEMENT

RICK MESSENGER

Treater: KOLB Y SIMPSON

1/31/2017

Well: 2

Field: TARGA MONUMENT ADI D
LEA CO, NM



STEP RATE

CAMBRIAN MANAGEMENT Treater: KOLB Y SIMPSON

RICK MESSENGER

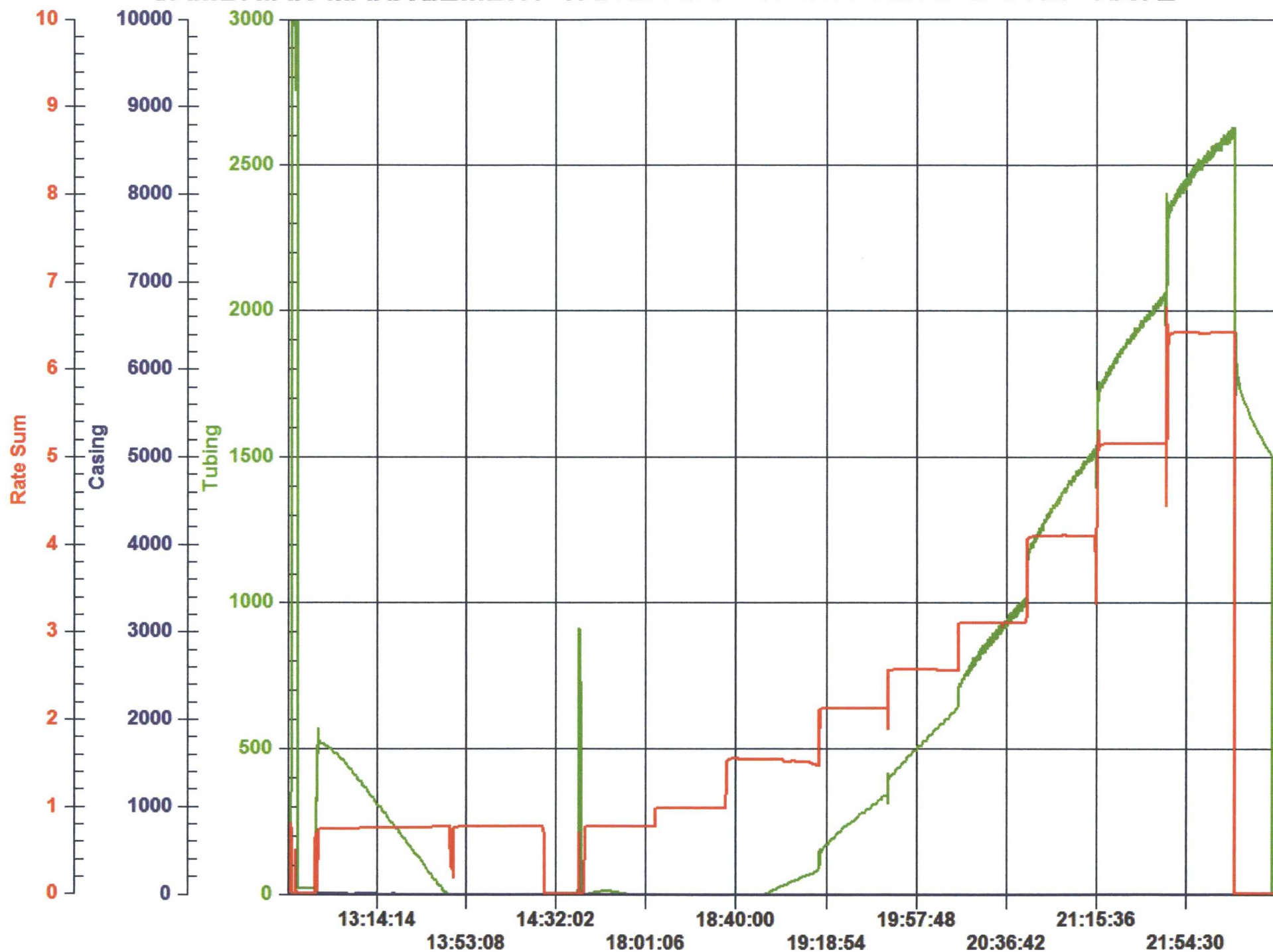
1/31/2017

Well: 2

Field: TARGA MONUMENT ADI D
LEA CO, NM

PUMPED 75 BBL BRINE TO DISPLACE DIESEL
PUMPED STEP RATE TEST 30 MINUTES PER RATE

CAMBRIAN-MANAGEMENT-TARGA-MONUMENT-ADI-D-2-STEP-RATE



Comments with Data

Time	Comment	Tubing	Casing	Rate Sum	Rate Stage Total	Rate Grand Total
1/31/2017 12:35:24 PM	CAMBRIAN MANAGEMENT TARGA MONUMENT ADI D 2 STEP RATE TEST LEA CO NM	16.32	1.21	0	0	0
1/31/2017 12:37:22 PM	TEST LINES	4773.17	1.82	0.01	0.25	0.25
1/31/2017 12:48:23 PM	OPEN WELL	519.14	0.61	0	0.11	0.11
1/31/2017 12:48:46 PM	START PUMPING BRINE TO DISPLACE DIESEL	556	0.61	0.74	0.13	0.13
1/31/2017 1:13:58 PM	MONITOR RATE AND PSI	316.68	0.61	0.76	19.09	19.09
1/31/2017 1:32:01 PM	MONITOR RATE AND PSI	131.75	0	0.76	32.81	32.81
1/31/2017 1:45:15 PM	WELL WENT ON VACUUM	0	0	0.77	42.95	42.95
1/31/2017 2:27:00 PM	SHUT DOWN	-12.69	-1.82	0.01	74.98	74.98
1/31/2017 2:41:46 PM	Pause 2:41:46 PM	-19.34	-3.03	0	74.98	74.98
1/31/2017 5:33:32 PM	OPEN WELL	-0.6	-9.7	0	0.06	75.04
1/31/2017 5:34:45 PM	START STEP RATE TEST	0.6	-9.09	0.78	0.1	75.07
1/31/2017 5:40:22 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3799	9.07	-9.09	0.77	4.42	79.39
1/31/2017 5:45:26 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3840	8.46	-10.91	0.77	8.32	83.3
1/31/2017 5:50:34 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3879	3.02	-9.7	0.77	12.29	87.27
1/31/2017 5:55:11 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3910	-2.42	-10.31	0.77	15.84	90.82
1/31/2017 6:00:11 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3941	-9.07	-10.91	0.77	19.7	94.68
1/31/2017 6:05:03 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 3968	-14.5	-10.91	0.77	23.46	98.44
1/31/2017 6:05:20 PM	INCREASE RATE	-12.09	-11.52	0.98	23.7	98.67
1/31/2017 6:10:10 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4008	-16.92	-10.91	0.99	3.52	103.45
1/31/2017 6:15:05 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4040	-21.76	-10.31	0.99	8.37	108.3
1/31/2017 6:20:11 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4074	-24.78	-10.91	0.99	13.42	113.35
1/31/2017 6:25:02 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4102	-27.2	-10.91	0.99	18.21	118.14
1/31/2017 6:30:09 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4133	-29.61	-10.91	0.99	23.28	123.21
1/31/2017 6:35:05 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4161	-32.63	-11.52	0.99	28.17	128.1
1/31/2017 6:36:11 PM	INCREASE RATE	-21.76	-11.52	1.54	29.44	129.37
1/31/2017 6:40:11 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4203	-11.48	-11.52	1.55	35.61	135.55
1/31/2017 6:44:21 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4241	-9.67	-11.52	1.54	42.03	141.96
1/31/2017 6:49:48 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4243	-6.04	-11.52	1.54	50.39	150.33
1/31/2017 6:54:44 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4260	10.27	-11.52	1.54	58	157.93
1/31/2017 7:00:01 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4279	30.82	-11.52	1.54	66.12	166.05
1/31/2017 7:04:59 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4300	49.56	-11.52	1.54	73.69	173.63
1/31/2017 7:10:00 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4317	66.48	-10.91	1.53	81.31	181.24
1/31/2017 7:15:10 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4333	82.8	-10.91	1.49	89.08	189.02
1/31/2017 7:16:24 PM	INCREASE RATE	143.23	-11.52	2.12	91.19	191.12
1/31/2017 7:20:10 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4379	179.49	-11.52	2.12	6.36	199.07
1/31/2017 7:24:52 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4413	215.75	-10.91	2.12	16.31	209.02
1/31/2017 7:29:28 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4452	246.58	-10.91	2.12	26.05	218.76
1/31/2017 7:34:59 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4485	281.63	-10.91	2.12	37.74	230.45
1/31/2017 7:40:21 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4514	315.47	-10.91	2.12	49.1	241.82
1/31/2017 7:45:07 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4541	342.67	-10.91	2.12	59.2	251.91
1/31/2017 7:46:01 PM	INCREASE RATE	397.66	-10.91	2.57	61.25	253.96
1/31/2017 7:51:03 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4600	444.2	-10.91	2.57	2.05	266.85
1/31/2017 7:54:50 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4633	476.83	-10.91	2.57	11.78	276.58
1/31/2017 7:56:24 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4673	487.71	-10.91	2.57	15.8	280.6
1/31/2017 8:05:19 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4708	559.03	-10.31	2.57	38.7	303.5
1/31/2017 8:10:08 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4740	595.29	-9.09	2.56	51.07	315.87

Comments with Data

Time	Comment	Tubing	Casing	Rate Sum	Rate Stage Total	Rate Grand Total
1/31/2017 8:15:12 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4773	635.17	-9.7	2.56	64.04	328.84
1/31/2017 8:16:25 PM	INCREASE RATE	716.16	-9.7	3.11	67.49	332.29
1/31/2017 8:20:32 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4831	760.88	-9.7	3.11	11.82	345.11
1/31/2017 8:25:14 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4876	827.96	-10.31	3.11	26.35	359.64
1/31/2017 8:30:08 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4917	884.77	-9.7	3.11	41.59	374.88
1/31/2017 8:35:09 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 4960	914.38	-9.09	3.08	57.19	390.48
1/31/2017 8:40:37 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5000	977.24	-9.09	3.1	74.12	407.42
1/31/2017 8:45:14 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5035	1014.1	-9.09	3.1	88.47	421.76
1/31/2017 8:46:24 PM	INCREASE RATE	1173.65	-9.09	4.1	92.58	425.88
1/31/2017 8:50:04 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5108	1229.25	-9.09	4.1	8.03	440.93
1/31/2017 8:55:20 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5174	1302.98	-9.09	4.1	29.54	462.45
1/31/2017 9:00:24 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5229	1368.25	-8.49	4.1	50.31	483.21
1/31/2017 9:05:05 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5280	1419.02	-7.88	4.1	69.51	502.41
1/31/2017 9:10:24 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5328	1481.87	-7.88	4.1	91.29	524.19
1/31/2017 9:15:07 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5371	1511.48	-7.88	4.1	110.67	543.57
1/31/2017 9:17:15 PM	INCREASE RATE	1731.47	-7.88	5.16	120.78	553.68
1/31/2017 9:20:18 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5456	1785.25	-7.28	5.16	136.57	569.47
1/31/2017 9:25:32 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5527	1854.15	-7.28	5.16	163.57	596.47
1/31/2017 9:30:18 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5579	1901.29	-6.67	5.16	188.05	620.95
1/31/2017 9:35:35 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5634	1966.56	-6.67	5.16	215.36	648.26
1/31/2017 9:40:17 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5678	2005.24	-6.06	5.16	239.59	672.49
1/31/2017 9:45:08 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5720	2042.71	-6.67	5.16	264.62	697.51
1/31/2017 9:46:52 PM	INCREASE RATE	2342.47	-5.46	6.42	274.78	707.67
1/31/2017 9:50:42 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5807	2403.51	-5.46	6.42	13.17	732.32
1/31/2017 9:55:44 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5869	2434.93	-5.46	6.42	45.37	764.52
1/31/2017 10:00:14 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5915	2491.14	-5.46	6.42	74.23	793.39
1/31/2017 10:05:19 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5959	2546.13	-5.46	6.42	106.91	826.07
1/31/2017 10:10:22 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 5998	2578.16	-4.85	6.42	139.29	858.45
1/31/2017 10:15:19 PM	MONITOR RATE AND PSI BOTTOM HOLE PSI 6034	2614.42	-5.46	6.42	171.08	890.24
1/31/2017 10:16:40 PM	ISIP 1799 PSI	1765.92	-4.85	0	172.33	891.49
1/31/2017 10:20:40 PM	5 MIN SHUT IN 1672	1672.85	-4.85	0	172.33	891.49
1/31/2017 10:25:28 PM	10 MIN SHUT IN 1590 PSI	1590.65	-4.24	0	172.33	891.49
1/31/2017 10:30:30 PM	15 MIN SHUT IN 1521 PSI	1521.76	-4.24	0	172.33	891.49
1/31/2017 10:32:07 PM	MAX PSI 2620	-28.4	-4.85	0	172.33	891.49
1/31/2017 10:32:20 PM	MAX RATE 6.4 BPM	-33.84	-5.46	0	172.33	891.49
1/31/2017 10:32:54 PM	TOTAL LOAD 891 BBL	-34.45	-4.85	0	172.33	891.49



STEP RATE TEST

	RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
Step 1	0.8	1/31/2017	5:04pm	3739.65	-0.25	
Step 2	1	1/31/2017	5:34 PM	4158.28	-0.51	
Step 3	1.5	1/31/2017	6:15 mp	4330.85	114.46	
Step 4	2	1/31/2017	6:45 PM	4530.74	374.08	
Step 5	2.5	1/31/2017	7:15 PM	4763.75	651.23	
Step 6	3	1/31/2017	7:45 PM	5028.55	1012.6	
Step 7	4	1/31/2017	8:15 PM	5366.32	1477.64	
Step 8	5	1/31/2017	8:46 PM	5732.52	1988.88	
Step 9	6	1/31/2017	9:16 PM	6030.63	2503.14	
Fall Off		1/31/2017	9:30 PM	5715.17	1577.57	
	Company:	Cambrian MGT LTD			Recorded By:	M. Flores
	Well:	Targa Monument AGI D#2				
	Field:	Targa Monument AGI D#2			Truck Number:	95
	County:	Lea			District:	Levelland
	State:	New Mexico				
	Seat Nipple Depth:	N/A				
	Perforations:					
	Plug Back Depth	N/A				

