

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other: Acid Gas Injection Well <input checked="" type="checkbox"/>		WELL API NO. 30-025-43470
		5. Indicate Type of Lease BLM STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
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 Surface 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 <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Annual 2020 Summary Injection Data Report <input checked="" type="checkbox"/>	

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. **Well bore Diagrams attached.**

MONUMENT AGI D #2 MAOP 3000 psig NMOCC Administrative Order SWD-1654.

Annual Summary Injection Data Report updated through 2020 Pursuant to NMOCC Administrative Order SWD-1654.

This report includes the data and analysis of surface injection pressure, TAG temperature, casing annular pressures as well as downhole injection pressure, temperature and annular pressure (i.e. injection parameters) for the Monument AGI D #2 for 2017 through end of 2020. Based on data for surface injection/annular pressure, the well continues to show excellent integrity. For 2020, the values for injection parameters are generally stable and yielded the following results, which are provided in detail in attached Table 1 and Figures 1 and 2. The following average values represent the operational condition of the well for 2020:

Surface Measurements: Average TAG Injection Pressure: 1,795 psig, Average Tag Temperature: 104 °F, Average TAG injection rate: 2,236 MSCFD, Average Annular Pressure 393 psig, Average Differential Pressure 1402 psig.

Downhole Measurements: Average bottom-hole pressure 4,747 psig, Average bottom-hole Temperature: 117° F.

The data gathered throughout normal operations in 2020 demonstrate the correlative behavior of the annular pressure with the flowrate, injection pressure and temperature, and show the sensitive and correlative response of the annular pressure confirming that the well has good integrity and is functioning appropriately within the requirements of the NMOCC order. The data for 2020 when compared to the entire period show that the reservoir is continuing to respond favorably to the TAG injection resulting in slightly lower surface and bottom hole pressures when compared to the entire operating period since 2017. The Monument AGI D #2 well displays excellent reservoir characteristics easily accommodating the required volumes of TAG from the facility. Furthermore, the well operation has been excellent with great temperature and pressure control even during startups after upset events. Based on this annual report Targa requests that immediate notification parameters for the facility remain the same for 2021 as for 2020.

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 Services, LLC DATE 1/24/2021

Type or print name: Alberto A Gutierrez, RG E-mail address: aag@geolex.com PHONE: 505-842-8000

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

ANALYSIS OF ANNUAL TRENDS AND REQUEST TO CONTINUE WITH APPROVED IMMEDIATE NOTIFICATION PARAMETERS FOR OPERATION OF MONUMENT AGI D#2 (API #30-025-43470) UNDER NMOCC SWD-1654

This document presents the results from the analyses of the injection parameter data collected from the Monument D#2 Well, which serves Targa's Monument Gas Processing Facility in Lea County, NM. Data have been collected continuously since commissioning of the Monument AGI D#2 (March 23, 2017) and have been analyzed monthly by Geolex and transmitted to Targa for reporting to NMOCD on a quarterly basis as per the NMOCC order referenced above. The AGI D#2 well was completed in the Devonian through the Montoya section as a near vertical well approximately 300 feet from the plugged AGI#1.

Bottom hole sensors for AGI D#2 provide data on reservoir conditions in the deeper Devonian reservoir downhole sensors are providing reliable data for bottom hole pressure and temperature. In addition, surface data from the well is being collected relative to the following parameters:

- Treated Acid Gas (TAG) surface injection pressure,
- TAG injection temperature,
- Annular pressure,
- Bottom Hole pressure and temperature
- TAG flow rate from compressors

The above are the key parameters which are currently being measured in the well in order to monitor the operations of the well, prevent hydrate formation and reduce corrosion potential. Since these parameters are useful indicators and predictors of potential operational or mechanical problems in the well, various levels of alarms have been established for each of these parameters. These parameters include three which are measured directly (TAG injection pressure, TAG injection temperature and annular pressure) and one (differential pressure) which is a calculated value (the difference between the two measured parameters of injection and annular pressure). The analyses of the long-term trends in these values have been useful in smoothing out shorter-term variations which can be observed from detailed inspection of hourly data and in the development of appropriate alarm bands for each parameter. These data are included as Table 1.

The well at Monument is equipped with bottom hole (just at top of packer) P/T measurement capability inside the tubing. The monitoring of these additional parameters will also aid significantly in determining the appropriate immediate notification parameters which are required by the NMOCC order for AGI D#2. In general, the immediate notification parameters for the well were developed from this long-term analysis of the injection data. When the average values for 2020 are compared to 2019 values, it is clear that the reservoir is responding well to the TAG injection with average pressures both at the surface and in the bottom hole decreasing in 2020. This effect is even more dramatic when comparing 2020 values compared to values over the entire operational life of the well.

The NMOCD also requires that immediate notification parameters and levels be discussed and agreed upon with the agency, and that these be periodically reviewed and updated as needed based on operational or regulatory changes. The immediate notification parameters for the well have been approved by

NMOCD, and Targa requests no changes in these approved values. With this requirement in mind and for the purpose of protecting the mechanical integrity and safety of the well and the overall AGI facility, Geolex monitors these data under contract to TARGA to prevent damage to the wells or violation of regulatory requirements or permit constraints.

After analyzing the performance of the well on a continuous basis, Geolex has assembled the data and has analyzed observed trends for the 2017 through 2020 timeframe as can be seen in Figures 1 and 2.

Given the observations of the trends in the graphs and the significantly different behavior of the well as compared to AGI#1, the well demonstrates good mechanical integrity. There is no indication of the reservoir currently being used by AGI D#2 being pressured-up to any significant degree. Furthermore, the temperature and pressure control at this well are handled very well and are stable facilitating startups after any upset events.

Upon startup from any shutdown that lasts more than 6-8 hours it is critical to inject methanol along with the TAG for the initial startup period to prevent the formation of hydrates. It is also critical to maintain the temperature control on the injected TAG and to avoid rapid temperature or pressure fluctuations during periods when power failures or other mechanical failures may occur. The trends observed in AGI D#2 are shown in Figures 1 and 2 for the entire period.

REVIEW OF STATISTICAL ANALYSIS OF INJECTION PARAMETERS, DEVELOPMENT OF AND REQUEST TO CONTINUE WITH APPROVED IMMEDIATE NOTIFICATION PARAMETERS MONUMENT AGI D#2 (API #30-025-43470) UNDER NMOCC SWD-1654

The statistical analyses of the injection parameter data were initially conducted for the purpose of establishing normal operating levels for these parameters which are automatically monitored. Several data filtering steps were accomplished to take the hourly data which forms the basis of the analysis in order to smooth out variability due to normal operations. Since the commissioning of the AGI D#2, only that well has been operated at the site since the AGI#1 was plugged and abandoned pursuant to OCD requirements and approvals. The bottom hole PT sensors in AGI D#2 have provided excellent reservoir condition data for the well.

All the data are summarized in Table 1. Based on the analysis of trends, the immediate notification parameters which were approved for AGI D#2 remain appropriate.

The approved immediate notification parameters for the Monument AGI D#2 are summarized below:

1. Exceedance of the approved MAOP of 3000 psig surface for a period greater than two hours.
2. Failure of a mechanical integrity test (MIT) of the well.
3. Confirmation of any condition that indicates a tubing, packer or casing leak.
4. Any increase of the annular pressure to a value that is more than 80% of the injection pressure.
5. Any release of H₂S at the well which results in an activation of the facility's approved Rule 11 H₂S contingency plan.
6. Any workover or maintenance activity that requires intrusive work in the well. Based on these analyses and quarterly monitoring of well injection parameters, Targa hereby requests no change to the currently-approved immediate notification parameters.

TABLE 1 MONUMENT AGI D#2 CUMMULATIVE INJECTION DATA (April 2017-December 2020)

			TAG Injection Temperature (° F)	Surface TAG Injection Pressure (psig)	Surface Casing Annulus Pressure (psig)	Surface Injection/Casing Annular Pressure Differential (psig)	Flowrate (MSCFD)	Average Bottom Hole Pressure (psig)	Average Bottom Hole Temperature (°F)	
										Notes
Q #1 2017	January thru March 2017	3/30/2017	114	1435	165	1271	1575	4180	116	AGI D #2 was brought online on March 23, 2017. First Quarter Data is 3-23 through 3-31.
Q #2 2017	April thru June	6/30/2017	114	1808	309	1499	1455	4715	116	
Q #3 2017	July thru September	9/30/2017	112	2035	343	1691	2415	4985	116	
Q #4 2017	October thru December	12/30/2017	117	2048	528	1534	2296	4983	117	
Q #1 2018	January thru March	3/30/2018	116	1983	323	1561	2210	4960	118	
Q #2 2018	April thru June	6/30/2018	119	1975	212	1806	2290	4943	117	
Q #3 2018	July thru September	9/30/2018	119	1998	286	1701	2306	4929	117	
Q #4 2018	October thru December	12/30/2018	116	1900	237	1693	2051	4815	117	
Q #1 2019	January thru March	3/30/2019	112	1955	442	1513	2473	4900	118	
Q #2 2019	April thru June	6/30/2019	109	1858	308	1550	2086	4803	117	
Q #3 2019	July thru September	9/30/2019	102	1766	229	1537	2023	4721	116	
Q #4 2019	October thru December	12/30/2019	104	1803	566	1237	2152	4753	117	
Q #1 2020	January thru March	3/30/2020	105	1898	490	1408	2602	4867	117	
Q #2 2020	April thru June	6/30/2020	102	1788	328	1460	2102	4748	117	
Q #3 2020	July thru September	9/30/2020	102	1744	335	1409	2176	4692	117	
Q #4 2020	October thru December	12/30/2020	105	1748	419	1329	2063	4680	117	
Average for 2020			104	1795	393	1402	2236	4747	117	
Standard Deviation 2020			2	62	66	47	215	74	0	
Average for Entire Period			111	1859	345	1512	2142	4792	117	
Standard Deviation Entire Period			6	148	112	155	285	189	1	

Figure 1 Monument AGI D #2 All Surface Injection Data

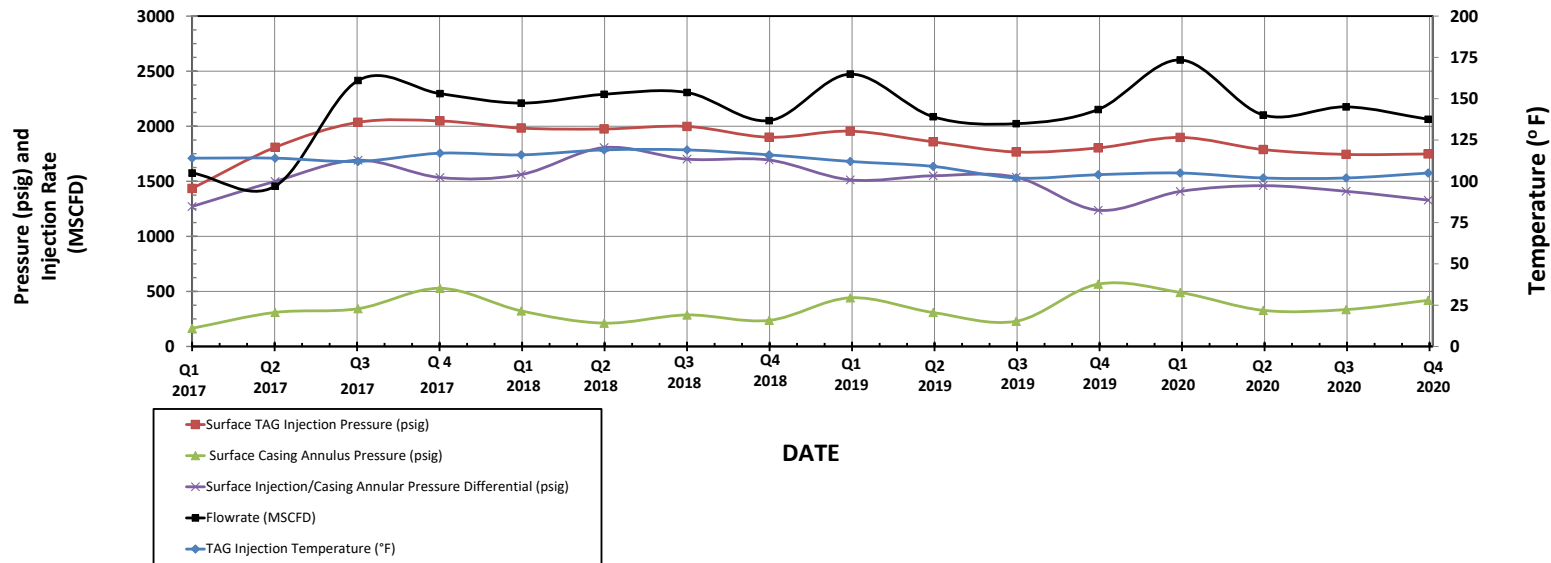
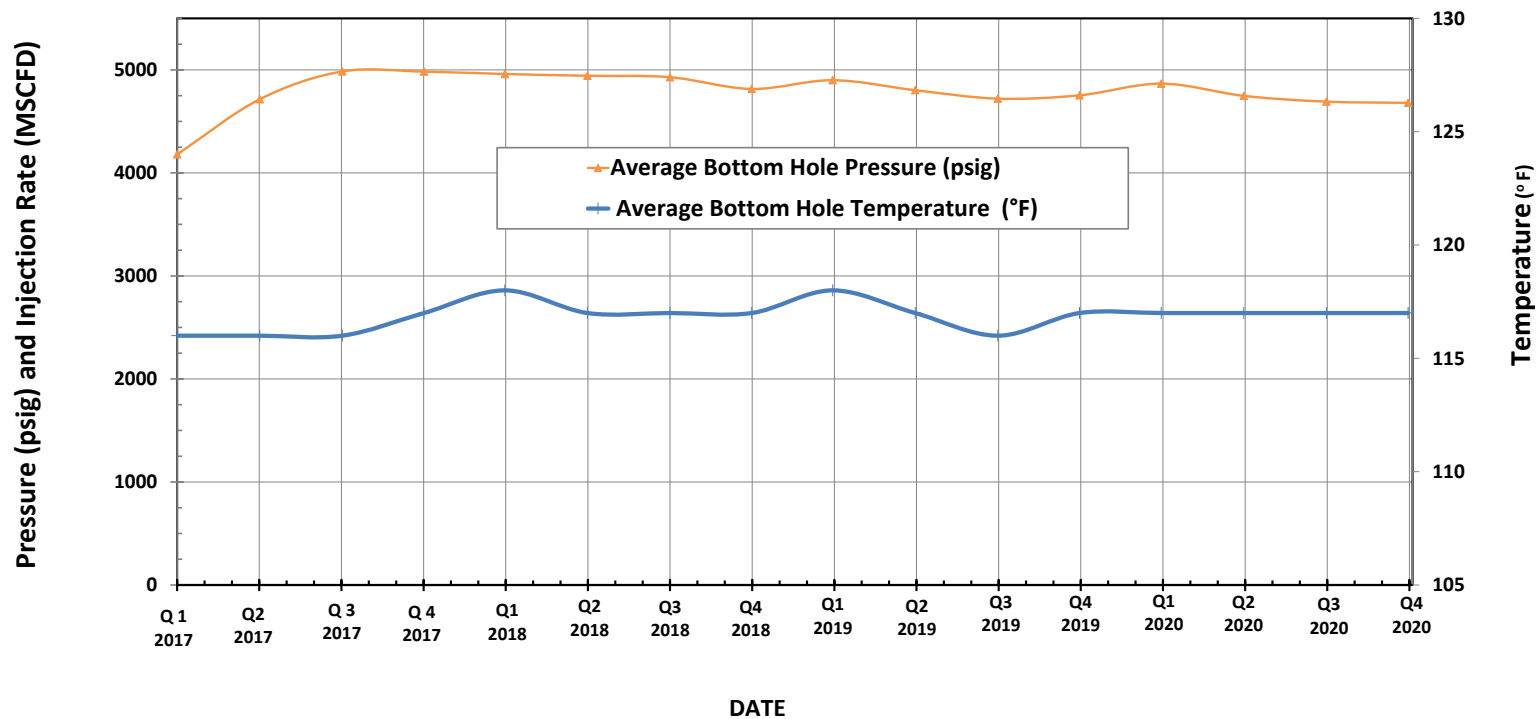


Figure 2 Monument AGI D #2 Bottomhole Data

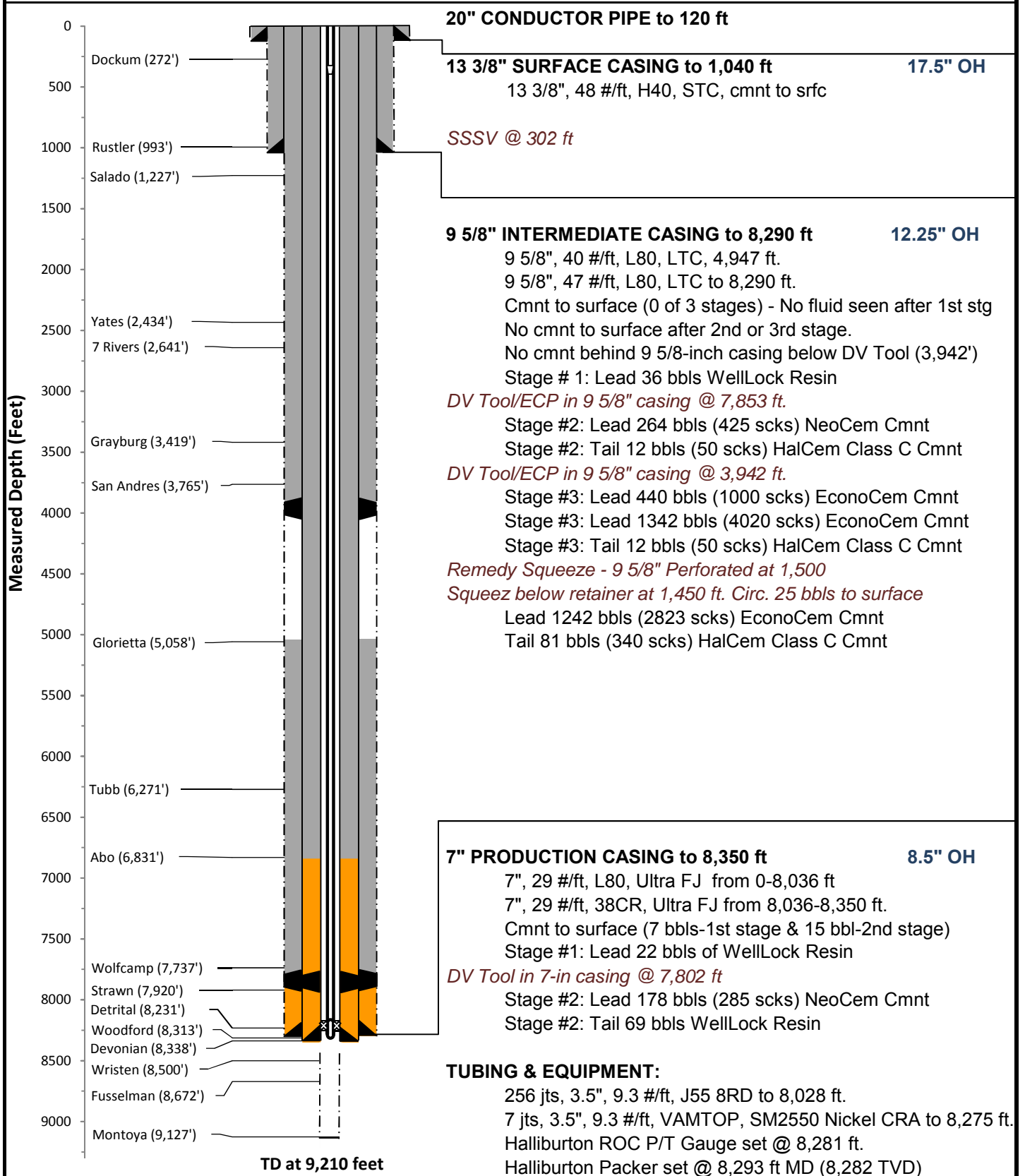


WELL AND TUBING SCHEMATIC
Monument AGI D #2 API# 30-025-43470

Targa Monument AGI D #2 As-Built Well Schematic

Well Name: Monument AGI D #2
API: 30-025-43470
STR: Sec. 36(O), T19S-R36E
County, St.: Lea County, New Mexico

Footage: 685' FSL & 2,362' FEL
Well Type: AGI Devonian
KB/GL: 3,609'/3,584'
Lat, Long: 32.6115308, -103.3063534



**Schematic is properly scaled
 (Formation Depths are MD)**

TD Location: Sec. 36, T19S-R36E (734' FSL & 2131' FEL)

Final Installation						
Installation	Length	Depth	Description	OD	ID	
1	25.00	1.99	KB CORRECTION			
2	0.50	26.99	TUBING HANGER			
3	1	27.49	3.5" 9.3# J55 8RD DOUBLE PIN ADAPTER	3.500	2.992	
	2	28.11	1 JOINTS 3.5" 9.3# J55 8RD TUBING	3.500	2.670	
	3	56.86	3.5" 9.3# J55 8RD TUBING SUBS(10.05 - 6.05)			
	4	72.96	7 JOINTS 3.5" 9.3# J55 8RD TUBING	3.500	2.670	
4	5	293.89	3.5" 9.3# J55 8RD TUBING SUB	3.550	2.670	
	6	299.93	X OVER 3.5" 9.3# 8RD BOX X 3.5# 12.7# VAMTOP PIN	4.000	2.750	
	7	302.23	HALLIBURTON TUBING RETRIEVABLE SAFETY VALVE NICKLE ALLOY 925 15,000# PRESSURE RATING 750 PSI CLOSING 781HRE25224 101757100 SN 0003747503-1 3.5" 12.7# VAMTOP B X P 2300 PSI OPENING 2.562 'X' PROFILE IN TOP OF VALVE.	5.610	2.562	
5	8	306.31	X-OVER 3.5" 12.7# VAMTOP BOX X 3.5" 9.3# 8RD PIN	4.070	2.750	
6	9	308.47	3.5" 9.3# J55 8RD TUBING SUB	3.550	2.670	
7	10	314.44	248 JOINTS 3.5" 9.3# J55 8RD TUBING	3.500	2.670	
8	11	8,027.74	X-OVER 3.5" 9.3# 8RD BOX X 3.5" 9.2# VAMTOP PIN	3.970	2.980	
9	12	8,030.12	7 JOINTS 3.5" 9.2# VAMTOP SM2550 NICKELTUBING	3.500	2.992	
	13	8,274.70	3.5" 9.2# VAMTOP BOX X PIN SUB	3.530	2.992	
10	14	8,280.45	HALLIBURTON ROC GAUGE MANDREL 3.5" VAMTOP BXP 102329817 SN-464192 ROC GAUGE ROC16K175C 101863926 WD#9381-6034 ADDRESS 126 SN-ROC004483	4.670	2.950	
	15	8,284.53	X-OVER SUB 3.5" 9.2# VAMTOP BOX X 2.875" 6.5# VAMTOP PIN	3.930	2.441	
	16	8,285.49	X-OVER SUB 2.875" 6.5# VAMTOP BOX X PIN	2.900	2.441	
	17	8,291.58	2.313" 'X' NIPPLE 2.875" 6.4# VAMTOP BOX X PIN	3.240	2.313	
	A		HALLIBURTON SEAL ASSEMBLY			
	a-1	8,292.69	STRAIGHT SLOT LOCATOR 2.875" VAMTOP BOX X 2.875 NU 10 INCOLOY 925 (212S3270-D)(102582273)(SN-0003781099-1)	3.950	2.431	
	a-2	8,294.42	SEAL UNIT 212MSF32500-D 102666617 SN 0003779766-5 2.875" NU 10 RD INCOLOY 925	3.200	2.380	
11	a-3	8,295.42	3 EXTENSIONS 2.875 NU 10 RD 2.06' EACHNICKEL ALLOY 925 (212X32500-D) (120056337)(SN-0003777400-1)	3.200	2.347	
12	a-4	8,301.48	4 -SEAL UNITS 3.250" X 2.875" NU 10RD NICKEL ALLOY 925 1 EA- (212MSF32500-D)(102666617)(SN 0003779766-3 3-EA (212MSA3200-D)(102666512)(SN 0003779766-1 0003779766-4 0003779766-2	3.200	2.380	
13			(FLOUREL SEALS SAP# 100014586 AFLAS SEALS SAP# 100006529)			
14	a-5	8,305.48	MULE SHOE GUIDE 2.875" NU 10RD NICKEL ALLOY 925 (812G32500-D) (10143327)(SN-0003777382-1)	3.200	2.380	
15			LAND HANGER WITH 26,000# COMPRESSION PUTS 20,000# COMPRESSION ON PACKER			
16			PICK UP WEIGHT IS 68,000# SLACK OFF IS 64,000#			
17			HALLIBURTON PACKER ASSEMBLY			
18	18	8,292.69	HALLIBURTON 7" 23-38# BWD PERMANENT PACKER WITH 3.250" BORE, 4" 8UN BOX THREAD, INCOLOY 925 (212BWD7007-D)(101302623) WAS RUN ON W/L AND TOP @ 8292.69' ELEMENTS @ 8294'	5.690	3.250	
19						
20	19	8,296.68	SEAL BORE EXTENSION INCOLOY 925 4" 8UN PXP (PN212N11584)(101468460)(SN-0003744131-1)	4.750	3.250	
21	20	8,306.15	X-OVER 4" 8UN BOX X 2.875" 6.5# 8RD INCOLOY 925 (212N9343)(101159929-A)(SN-0003777396-1)	5.000	2.430	
22	21	8,306.71	PUP JOINT 2.875" 6.5# EU 8RD INCOLOY 925	2.880	2.380	
23	22	8,314.81	HALLIBURTON 2.188" 'R' LANDING NIPPLE INCOLOY 925 (811R21807-D) (102362504) (SN- 0003777399-2) NICKEL ALLOY 925	3.670	2.188	
24	23	8,316.02	PUP JOINT 2.875" 7.9# EU 8RD INCOLOY 925	2.880	2.290	
25	24	8,324.11	HALLIBURTON 2.125" 'R' LANDING NIPPLE (811R21286) (102667285) (SN- 0003781497-1) NICKEL ALLOY 925	3.940	2.125	
26	25	8,325.42	PUP JOINT 2.875" 6.5# EU 8RD INCOLOY 925	2.880	2.380	
	26	8,329.52	WIRELINE RE-ENTRY GUIDE 2." 9.3# VAM INCOLOY 925	3.950	2.441	
		8,330.10	BOTTOM OF ASSEMBLY			
			EOC @ 8348' TD @ 9210'			
			DIESEL USED FOR PACKER FLUID			

Filename: