



GEOLEX
INCORPORATED

**APPLICATION TO THE NMOCC FOR AN AMENDMENT TO
ORDERS R-13052, R-13052-A, SWD-1654 AND SWD-1671 TO
INCREASE THE APPROVED AGGREGATE DAILY INJECTION RATE
FOR TARGA MONUMENT AGI SYSTEM FROM 2.5 TO 5.0 MMSCFD**



July 13, 2017 - Case No. 15740

Prepared For:

**New Mexico Oil Conservation Commission
1220 S. St. Francis Drive, Santa Fe, NM 87505**

Submitted By:

**Targa Midstream Services LLC
1000 Louisiana, Suite 4300
Houston, Texas 77022-5032**

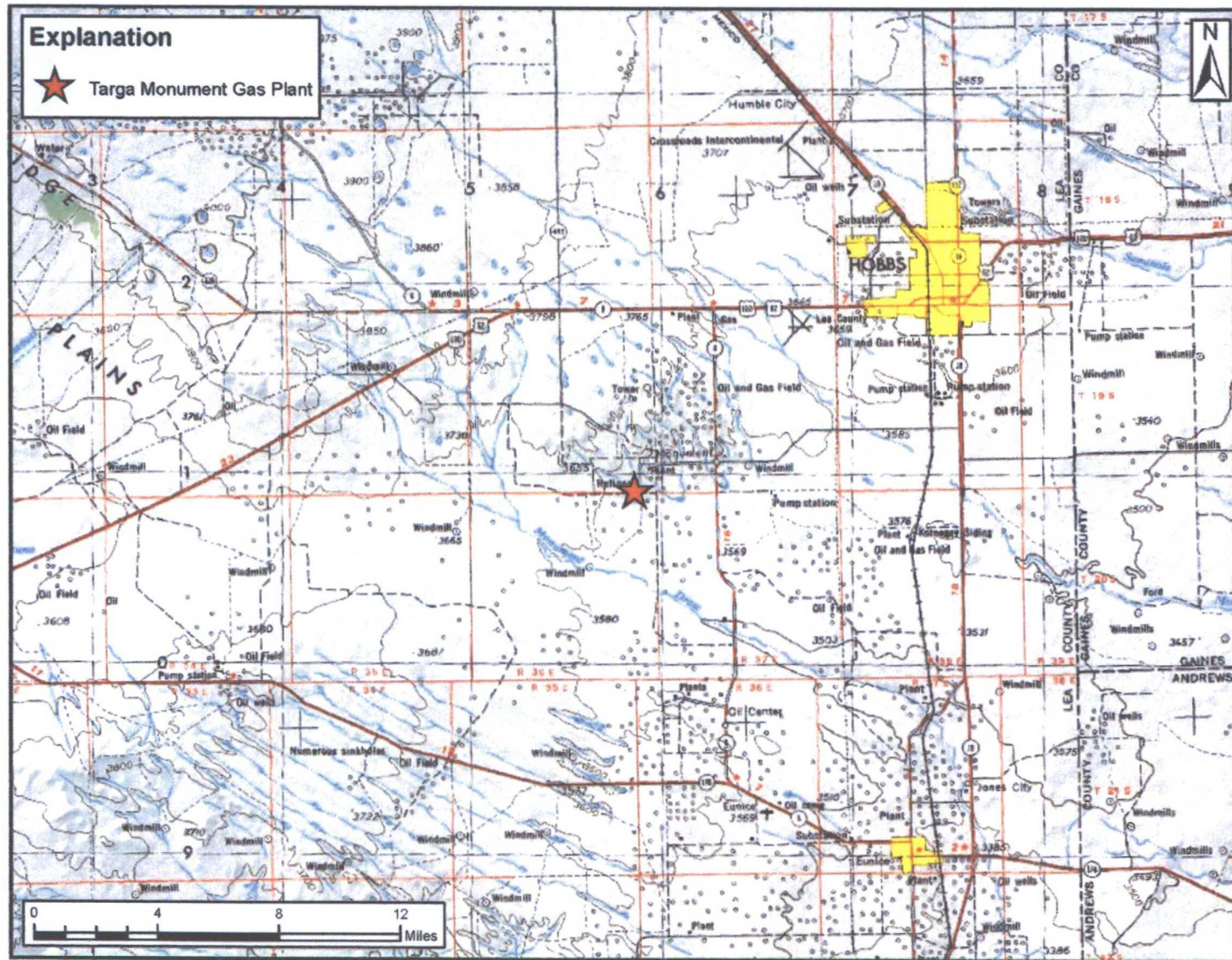


Figure 1: Location of Targa Monument Natural Gas Plant

Summary of Targa Midstream Services LLC Operations in SE NM

- Targa is a long-term and significant employer in SENM
- Several gas plants and related assets in SENM including the Monument Plant
- Targa is a full-service gas processing company with a significant and expanding presence in the Permian Basin of SENM and West Texas
- The Monument Plant has had an AGI Facility since 2011 and currently has a processing capacity of 85MMSCFD
- Changes in inlet gas composition have occurred as production areas change and develop in areas served by the plant

Factors Resulting in Need to Increase TAG Injection Rate

- Increased Production with higher CO₂ concentration from new tie-ins to the gathering system have resulted in significant increases in AGI production
- The increase in CO₂ concentration has resulted in an overall increase in TAG; however, the concentration of H₂S has been significantly reduced and CO₂ concentration has increased.
- The current 2.5 MMSCFD rate limitations is curtailing the plant's ability to adequately serve surrounding operators who are producing and needing to tie in gas with elevated CO₂ concentrations.
- While it may be a while before the plant reaches the full 5.0 MMSCFD injection rate, the plant is already being curtailed by the current limit.

CURRICULUM VITAE

James C. Hunter, R.G.

PERSONAL

Name: James Carl Hunter
Birthdate: December 22, 1948
Birthplace: Winchester, Virginia

Specialization: Acid Gas Injection Systems Design, Permitting and Operations; Reservoir Evaluation and Modeling; Geophysical Borehole and Seismic Interpretation; Well Site Supervision of Drilling, Logging, Testing and Completion; Workover Design and Operations; Hydrogeological Investigations, Modeling and Permitting; Expert Witness Support for Environmental and Oil/Gas Related Cases.

EDUCATION

Colorado School of Mines - 1986
M.S. Geology – Geology

University of New Mexico, 1980
B.S. (Honors) – Geology

PROFESSIONAL CERTIFICATIONS AND REGISTRATIONS

Registered Professional Geologist – State of California #4467

EXPERIENCE

April 1997 – Present
Consulting Senior Geologist
Geolex, Inc.
500 Marquette Avenue NW #1350
Albuquerque, New Mexico 87102

Duties, Accomplishments, Responsibilities:

Mr. Hunter plans and directs acid gas injection project for clients in New Mexico, Texas, Utah and other areas. His acid gas injection work involves initial feasibility studies, well design and AFE development, preparation and submittal of state and Federal permits, on-site well supervision, and well testing, completion, and subsequent operational support.

He also manages environmental investigations and analyses, primarily related to litigation support. He critically reviews the methods, results, and conclusions of other consultants and expert witnesses, as well as planning and implementing independent data collection, analysis and computer modeling. He also contributes to the preparation and review of Geolex's expert reports, and consults with clients and attorneys regarding response and litigation strategies. His recent projects have included:

1. Acid gas injection (AGI) project management for a total of 17 wells for clients including: Agave, Anadarko, DCP Midstream, Frontier Field Services, Holly Frontier, Regency, Santa Fe Midstream, Southern Union, Stakeholders Midstream, and Targa.
2. Develop and apply methods to calculate the migration of acid gas injected into underground reservoirs, incorporating reservoir petrophysical properties, acid gas phase equilibria over a wide range of pressures and temperatures, variable injection locations and rates, and ultimate acid gas distribution over the life of the injection project.
3. Evaluation of the current and long-term integrity of existing and planned wells that penetrate the injection zones to assure that no migration paths exist. As necessary, develop and direct programs to re-enter and remediate wells with casing and/or cement deficiencies.
4. Designing additional AGI wells that will be completed in existing, active AGI reservoirs. These wells require significant attention to metallurgy (corrosive-resistant alloys) and specialized cements. Drilling methods must also be modified to assure that acid gases are not released to adjacent formations or to the surface. Comprehensive safety plans, training and equipment are also used to assure personnel protection.
5. Providing regulatory interface with NMOC and TRRC prior, during and after AGI well drilling, testing and completion. Responsibilities included permit negotiations and applications, preparation and submittal of requires sundries and interim reports, planning and supervising mechanical integrity testing, and overseeing post-drilling site reclamation.
6. Planned and implemented workover projects for AGI wells with operational problems, including hydrate blockages, gas bubbles, tubing and/or casing failures, and mechanical problems including surface and subsurface equipment.
7. Incorporated 3-D seismic studies and geophysical well logs to identify and characterize several deep injection targets for a Class I non-hazardous wastewater well in southeastern New Mexico. The project included the acquisition of seismic data over two areas, each approximately 9 square miles in extent. The data was processed and inversion techniques were used to identify zones with good potential porosity. The project is now proceeding with well site and well design phases.
8. Reviewed the soil and groundwater impacts from UST releases in 11 states in the Midwest and western US. Case involved cost allocation among previous and current site owners and insurance carriers. Developed detailed analyses of remediation costs-to-date, as well as projected future costs for

remediation and monitoring, and provided estimates for potential future liabilities for closed sites.

9. Developed site-wide geological model for petroleum releases in shallow, alluvial aquifers beneath a pipeline terminal in the Black Warrior Basin in Alabama. The case revolved over alleged impacts from hydrocarbon vapors to nearby landowners. Determined that migration of NAPL and dissolved-phase hydrocarbons were controlled by variations in grain size and permeability of subsurface strata. Also supported analysis of releases to air from contaminated surface and groundwater, demonstrating that no releases above levels of concern reached properties of adjacent plaintiffs.
10. Studied the impacts to soils and groundwater from oil & gas production facilities in Texas, where drilling wastes were improperly disposed of on land and into surface waters. Demonstrated that heavy metals as well as hydrocarbons were generated by the drilling processes, and had migrated to groundwater.
11. Evaluation and modeling of the chemical behavior of a complex, multi-source groundwater plume containing PCE, TCE, TCA, DCE and MeCl at the Redfield Site in Denver, Colorado, for Brown Group Retail. This case also included evaluation of the performance of groundwater control and treatment systems, and detailed studies of indoor air impacts from the shallow groundwater plume.
12. Investigation and modeling of historical and potential future behavior of a TCE plume originating from a former United States Air Force facility and migrating into a residential area for the U.S. Department of Justice. Potential indoor air effects and the effectiveness of mitigation systems were also evaluated.
13. Investigation of the sources, transport and fate of a PCE plume which has migrated from an industrial facility into a drinking water aquifer for Ingersoll Rand Corporation, Schlage Lock Division. The study has also investigated the effectiveness of groundwater containment and remediation systems, as well as the operation of wellhead control systems.
14. Groundwater investigations, chemical and stable isotope studies, and groundwater flow and contaminant-transport modeling to identify sources and flow paths for composite groundwater contamination plumes resulting from releases from multiple pipeline releases for Duke Energy Field Services.
15. Investigation of airborne lead contamination originating from former battery-recycling smelters in 3 sites in the central and western U.S. for AIG as insurers of a lead smelter company. This project involved the detailed analysis of smelting processes, and the development of models which allowed the identification of routine versus accidental releases of lead particulates to air and surrounding soils.

November 1993 to March 1997:
President
James C. Hunter & Associates
2529 Georgene NE
Albuquerque, New Mexico 87112

Duties, Accomplishments, Responsibilities:

Providing environmental compliance services to private and government clients, including semiconductor manufacturers, remediation contractors, and National Laboratories.

1. Development and implementation of waste management, treatment, disposal and compliance program for major semiconductor fabrication facility, including innovative techniques to decontaminate equipment in clean room environments.
2. Direction of remediation activities at 6 Voluntary Corrective Action sites at Los Alamos National Laboratory. These sites involved organic solvents, PCBs, demolition debris, and potentially radioactive wastes. Work was performed in radiological and explosive-ordnance control areas.
3. Design and installation of soil and groundwater remediation systems for combined solvent and hydrocarbon releases at a chemical supply facility.
4. Direction of remediation of soils and debris contaminated with hazardous and radioactive wastes at a USAF facility. This project also involved on-site classification and stabilization of wastes.

1991 to November 1993
Vice President, Technical Services
Monteverde Environmental Consultants, Inc.
11930 Menaul NE
Albuquerque New Mexico 87112

Duties, Accomplishments, Responsibilities:

Responsible for supervision of technical staff of hydrogeologists, chemists, and microbiologists. Also developed corporate and divisional budgets, prepared business and strategic plans, and supported business development and proposal efforts.

1. Directed preparation of OPA 90 Spill Control Plans for three product-dispensing facilities in New Mexico and Arizona. Evaluated existing conditions and spill control measures, developed additional measures and procedures for current compliance.
2. Analysis of chemical, stable-isotope and radioisotope impacts to archaeological sites and materials resulting from the Exxon Valdez oil spill.
3. Direction of remediation efforts at over 25 UST and AST sites, including soil removal, groundwater treatment, and bioremediation methods.
4. Litigation support and expert witness testimony in a criminal case involving allegations of illegal hazardous waste storage and disposal. This case also involved site investigations including soil sampling and analysis, groundwater monitoring, and analysis of contaminant transport.

1989 to 1991
Division Manager
Groundwater and Waste Management Division
Mariah Associates, Inc.
Albuquerque, New Mexico

Duties, Accomplishments, Responsibilities:

Headed Mariah's program to provide hydrogeologic and permitting services for clients in the western United States.

1. Investigation of potential impacts to cultural resources from construction activities related to the construction of the Waste Isolation Pilot Project near Carlsbad, New Mexico.
2. Field investigations and remediation studies related to releases from produced-water pits and releases from petroleum transportation and storage facilities.
3. Environmental assessments and audits of commercial and industrial facilities.

1984 to 1989
Program Manager
Geoscience Consultants, Ltd.
Albuquerque, New Mexico

Duties, Accomplishments, Responsibilities:

Provided compliance and consulting services for a range of private and government clients, including USEPA. Served as contract compliance inspector for EPA evaluations of RCRA and CERCLA sites. Developed and implemented waste minimization audits for Federal facilities. Supervised technical staff division, including chemists, geologists, biologists, and industrial hygienists.

1. Direction of document review and site audits for all RCRA and CERCLA investigations at the Idaho National Engineering Laboratory. These services were provided under contract with USEPA and included hazardous waste permits, corrective action studies and work plans, RI/FS activities, closure plans, groundwater monitoring, and data management, sampling and analysis, and QA/QC plans. Site issues involved soil and groundwater contamination by TCE, PCE, metals and radionuclides.
2. Direction of a site investigation related to the Rocky Mountain Arsenal CERCLA site. Design and installation of monitor well clusters, sampling and analysis of soil and groundwater, and analysis of stream/aquifer interactions. Groundwater contamination involved TCE, PCE, and pesticides.
3. Quality Assurance Quality Control oversight for groundwater monitoring of organic solvent plume at NASA White Sands Test Facility. Directed the efforts of chemists and geologists in reviewing and validating monitoring data from over 20 monitor wells, and integrated groundwater data with geologic, seismic and soil-gas surveys. Supervised and edited report preparation and presentations to NASA and regulatory agencies.
4. Project Manager for development of expert testimony in support of revised produced-water regulations in the San Juan Basin. Performed well-site investigations (soil and groundwater sampling and monitoring) and developed computer models for transport and fate of hydrocarbons in groundwater.
5. Direction of document review and site inspections (under contract with USEPA) for over 25 sites nationwide, including the Idaho National Engineering Laboratory and the Rocky Mountain Arsenal. Work included review of plans, site inspections, program quality assurance, and participation in negotiations with state and Federal regulatory agencies. Private-sector work has included RCRA permitting, design and installation of groundwater monitoring networks, site characterization, closure plans, and remedial action.

1982 to 1984

**Teaching and Research Assistant
Colorado School of Mines
Golden, Colorado**

Duties, Accomplishments, Responsibilities:

Responsible for developing and teaching undergraduate courses in earth materials, structural geology, and petroleum geology. Also organized graduate field seminars in mapping and interpreting complex structural areas.

1981 to 1982

**Staff Member
Geochemistry Group
Los Alamos National Laboratory
Los Alamos, New Mexico**

Duties, Accomplishments, Responsibilities:

Co-Principal investigator for the State-Coupled Low Temperature Geothermal Resource Program. Planned and conducted field studies related to geothermal gradients in northern New Mexico.

1979 to 1981

**Exploration Geologist
Tenneco Minerals, Inc.
Tucson, Arizona**

Duties, Accomplishments, Responsibilities:

Explored for base, precious, industrial and energy minerals throughout the western United States. Planned and supervised sampling, mapping and drilling projects, prepared recommendations for management.

PUBLICATIONS

- Hunter, J. C. and Gutierrez, A.A.: Redundant AGI Wells for Gas Processing Plants: Operational, Environmental, And Regulatory Benefits. AGIS VI International Symposium; Houston, Texas USA, October 27, 2016.
- Gutierrez, A.A, and Hunter, J. C.: Review and Testing of Radial Simulations of Plume Expansion and Confirmation of Acid Gas Containment Associated with Acid Gas Injection in an Underpressured Clastic Carbonate Reservoir AGIS V International Symposium, Banff, Alberta, Canada May 21, 2015
- Gutierrez, A.A, and Hunter, J. C.: Control and Prevention of Hydrate Formation and Accumulation in Acid Gas Injection Systems during Transient Pressure/Temperature Conditions. AGIS IV International Symposium Calgary, Alberta, Canada, September 25, 2013.
- Nelson, E.P. and Hunter, J.C., 1986; Laramide Thin-Skinned Deformation in Permian Rocks, Fra Cristobal Range, South Central New Mexico; in New Mexico Geological Society Thirty-Seventh Annual Field Conference Guidebook, October 1986.
- Shagam, J.Y., Hunter, J.C., Brown, W.J., and Scott, R.M., 1992; Microbial Remediation of a UST Site in Albuquerque's South Valley; presented at New Mexico Environment Department First Annual Conference on the Environment, Albuquerque, New Mexico, September 1992.

- Hunter, J.C. and Gutierrez, A.G., 1985; Exploring for Groundwater in Fractured Carbonates, East-Central New Mexico; in Proceedings of the Association of Groundwater Scientists and Engineers, Western Regional Conference, January 1985.
- Hunter, J.C. and Nelson, E.P., 1984: Complex Laramide Deformation in the Fra Cristobal Range, New Mexico; in Proceedings of the Geological Society of America, Cordilleran Section Conference, Durango, Colorado, May 1984.
- Wilson, J.L., Van Allan, B.R., and Hunter, J.C., 1984: Sunset Ridge Fluorite Deposit, Sierra County, New Mexico; New Mexico Geology, February 1984.
- Hunter, J.C., 1983: Measured Geothermal Gradients in northern New Mexico; Los Alamos National Laboratory Special Report, DOE/IDO/1717-4.
- Hunter, J.C. and Ingersoll, R.V., 1981: Cañas Gypsum Member of the Yeso Formation; New Mexico Geology, September 1981.



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May 25, 2017

Prepared For:

**New Mexico Oil Conservation Commission
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Submitted By:

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Before the Oil Conservation Commission
Santa Fe, New Mexico
Exhibit No. 3
Submitted by: Targa Midstream Services LLC
Hearing Date: July 13, 2017
Case No. 15740

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Attachments

Attachment A:	Completion and Recompletion Records, J. R. Phillips 005 (3002504134)
Attachment B:	Plugging and Recompletion Records, North Monument G/Sa Unit 286 (3002520517)

APPLICATION TO THE NMOCC FOR AN AMENDMENT TO ORDERS R-13052, R-13052-A, SWD-1654 AND SWD-1671 TO INCREASE THE APPROVED AGGREGATE DAILY INJECTION RATE FOR TARGA MONUMENT AGI SYSTEM FROM 2.5 TO 5.0 MMSCFD

1.0 BACKGROUND AND REGULATORY HISTORY

On November 18, 2008 the New Mexico Oil Conservation Division (NMOCD) approved the application (Case No. 14161) submitted by Targa Resources Midstream, Ltd. (Targa) to drill and operate an acid gas injection (AGI) well at Targa's Monument natural gas processing plant in Lea County, New Mexico (NMOCC Order R-13052). The Order allowed Targa to inject into the Devonian and Fusselman zones at depths from 8,350 to 9,200 feet, with a maximum allowable operation pressure (MAOP) of 1,660 psig for combined treated acid gases (TAG) and wastewater with no limits on either TAG or wastewater injection rates.

On November 7, 2011 the NMOCC reopened Order R-13052 and in an amended Order (R-13052-A) placed a limit on injection rates to cap the daily total injectate volume at 5,000 barrels per day, with no more than 1,400 barrels to be TAG. Depending on actual wellhead pressures and temperatures, the amount of 1,400 barrels of TAG closely corresponds to approximately 2.5 to 2.7 MMSCFD.

The approved well, Monument AGI #1 (3002540002) began injection in December of 2011 and was operated until August of 2016, when mechanical problems forced the plugging and abandonment of the well.

On October 19, 2016 Targa submitted an application to NMOCD for an administrative authorization to replace Monument AGI #1 with a new dry (TAG only) AGI well (Monument AGI #D2; 3002543470), to be completed adjacent to the former well in the same zone and essentially identical depths. This application was administratively approved as Order SWD-1654 on November 10, 2016. This Order provides an MAOP of 3,000 psig (TAG only), and limited the total injection rate to 2.5 MMSCFD. At this rate of injection, the 30-year radius of influence was calculated to be 0.33 miles.

The well was spudded on November 23, 2016 and after completion and testing was placed into operation on March 23, 2017. The well is now in normal service. In the first quarter of 2017, the average injection rate was 1.54 MMSCFD, at an average pressure of 1,989 psig.

On December 9, 2016 Targa submitted an application (C-108) to the NMOCD requesting administrative approval for an additional, redundant well, Targa Monument AGI #3. The Targa Monument AGI #3 well would be drilled at a surface location approximately 200 feet north of AGI #2D, and will be completed in the same Devonian and Fusselman zones (Figure 1). This application was approved on April 24, 2017 in NMOCD Administrative Order SWD-1671. Again, the maximum injection rate for TAG only was set at 2.5 MMSCFD.

2.0 REQUEST FOR ORDER MODIFICATION

Since the replacement well AGI #2D was placed into operation there have been significant increases in CO₂ in the natural gas processed by the Monument gas plant, as well as additional wells added to the inlet feed which will result in a daily amount of TAG up to 5.0 MMSCFD in the very near future. Targa has calculated the impacts of the proposed increase in injection rates, including both the active AGI #D2 and the proposed AGI #3, and has determined that:

1. The radii of the injected areas of 5.0 MMSCFD will only grow to 0.47 miles, versus the plume radius of 0.33 miles calculated for the original rate of 2.5 MMSCFD.
2. These calculated radii are shown for AGI #D2 (Figure 2) and proposed AGI #3 (Figure 2).
3. Table 1 lists all 10 reported wells penetrating the injection zone within one mile of the project. These wells were identified in the applications for AGI #D2 and AGI #3.
4. The applications for AGI #D2 and AGI #3 identified 10 wells within a one-mile radius of the new well that penetrated the injection zone (Table 1). The conditions of these wells were documented and discussed in the AGI #D2 and AGI #3 applications, and Orders SWD-1654 and SWD-1671 were approved in part on the bases of these evaluations. No additional wells inside the one-mile circle have been identified in an updated database search.
5. With respect to AGI #D2, only 3 of these wells (the original AGI #1, State Gas Com 005, and North Monument G/SA Unit 032) were within the 0.33 mile radius of the original calculated TAG plume (2.5 MMSCFD for 30 years). The proposed expansion of the plume to 0.47 miles (5.0 MMSCFD for 30 years) will only encompass one additional well, J.R. Phillips 005 (Figure 2; Table 1).
6. The J.R. Phillips 005 well was spudded in 1947 and produced oil and gas from the Simpson Sand (9,610' to 9,870'). It was recompleted as an Abo gas well in 1998 by back plugging with a CIBP at 7,785' and perforations from 6,968' to 7,145'. A review of well records (Attachment A) indicates that the original 9,941' 5 1/2" production casing in the 7 3/4" borehole was cemented with 1500 sacks. The Halliburton Redbook indicates this geometry would yield an annular volume of 6.15 feet per cubic foot of cement. This would represent approximately 9,225 feet of filled annulus at only 1.0 cubic feet per sack. Clearly, the production casing was cemented to or very close to the surface, and safely protects the zones below the CIBP.
7. Considering the not-yet-drilled AGI #3, the proposed expanded plume of 0.47 miles only includes one additional well, North Monument G/SA Unit 286 (Figure 3; Table 1). The Unit 286 well was a dry hole, and was plugged and abandoned in March 1963. The well was re-entered in August of 1995 to a depth of 3,760 feet as a potential Eunice-Monument zone. The well was not recompleted, and is currently in Temporary Abandoned status. The last MIT was performed in April 2008. Relevant well records are provided as Attachment B.
8. As detailed in Table 1, all of these wells are properly completed and/or plugged and abandoned, and do not pose a hazard for migration of the injected TAG into any other zones.

Targa respectfully requests that Orders R-13052-A, SWD-1654 and SWD-1671 be amended to increase the total maximum injection rate (combined rate of both or either well) from 2.5 to 5.0 MMSCFD. Targa does not request any increase in the current MAOP of 3,000 psig, and will continue to comply with all other conditions of these Orders.

3.0 IDENTIFICATION OF INTERESTED PARTIES IN AREA OF REVIEW

Geolex has reviewed the land status and operators within one-half mile of the currently operating AGI #D2 and the permitted, yet-to-be drilled AGI #3, and two of the three operators identified in the original Order (Apache Corporation and XTO) remain on the list of operators of record. Three additional operators/lease holders, however, are located within the one-half mile radius of the wells. They are Lea Co. New Mexico Exploration and Production, LLC; Jack Huff Energy and Targa Midstream Services, LLC. There are only two operators within the one-half mile radius with wells penetrating the injection zone (Targa and Apache).

Surface owners within the area of review were also identified in Appendix B of the C-108 applications for both wells. These surface owners are identified in Table 2.

All interested parties will be individually noticed when a hearing date is set pursuant to NMOCC requirements.

TABLES

TABLE 1: Wells Penetrating Injection Zone within One Mile of the Active Targa AGI #D2 and Proposed Monument AGI #3

API	OPERATOR	DEPTH	WELLNAME	STATUS	Notes
3002540002	TARGA RESOURCES	9200	MONUMENT AGI #1	Plugged	Pumped cmt 3,500' to surface.
3002512473	APACHE CORP	10255	STATE F GAS COM 005	Active	Plugged back to Eumont/Seven Rivers at 3,400' (in 5 1/2" casing) 9/11/96. CIBP's w/cmt @ 7,800', 6,850', 5,640', 3,420'.
3002512478	APACHE CORP	9822	NORTH MONUMENT G/SA UNIT 032	Plugged	CIBP w/cmt @ 9,475'; squeezed cmt plugs @ 7,590', 7,160', 5,710" CIBP w/cmt @ 4,500'; Spot cmt @ 2,900', 2,345', 1,330', 367 to surface.
3002512481	APACHE CORP	10100	NORTH MONUMENT G/SA UNIT 285	Active	Plugged & abandoned 3/5/59. Spot cmt @ 9,900', 9,755', 6,305', and 5,655' 3,780'. Re-entered and recompleted 3,930' in Eunice Monument 2/14/96; Re-entered and attempted to re-plugged deeper zones per NMOCD Order R-13052 2/2011. Unsuccessful, released rig May 2011. Well returned to production 7/15/11. Requirement to re-plug well rescinded per Order R-13052 (Reopened) 11/17/2011.
3002520517	APACHE CORP	9900	NORTH MONUMENT G/SA UNIT 286	TA	Dry hole; P&A w/spot plugs @ 10,080', 9,790', 9068', 8,180', 7,865', 6,770', 6,205', 5,642', 5,075', 3,750', 1,450' to surface, 12/28/62. Re-entered 6/7/95 cleaned to 3,760' (Eunice Monument). Not perforated. Status Temporary Abandoned.
3002505780	ATLANTIC RICHFIELD	9900	J R PHILLIPS A 008	Plugged	CIBP w/cmt @ 9,475'; squeezed cmt plugs @ 7,652', 5,742', 4,897', 3,442', 2,097', 880', 81' to surface.
3002523632	ARCO PERMIAN	9650	J R PHILLIPS A 009	Plugged	CIBP's w/cmt @ 9435', 6,620', 6,186', 5,655', 5,255', 5,069'; Cmt plugs @ 3,645', 1,1125', 610', Surface.
3002504134	APACHE CORP	9953	J R PHILLIPS 005	Active	Recompleted 7/12/98; CIBP at 7,785', perforated 6,965' to 7,685'.
3002504136	APACHE CORP	10214	J R PHILLIPS 007	Active	Temp. abandoned 8/6/92, CIBP's w/cmt @ 9,700', 6,700', 6,275', 5,590'. Recompleted in Paddock 5,264' to 5,530' 3/2010
3002505964	CHEVRON U S A INC	9814	J R PHILLIPS 011	Active	Producing in McKee-Ellenburger 9,490' to 9,800'.

Wells highlighted are within the 0.47 mile radius of the proposed 5.0 MMSCFD rate increase which were not within the 0.33 mile radius of the original rate limitation of 2.5 MMSCFD.

Note: The cement and completion status of all of these wells was reviewed in the C-108 applications, resulting in NMOCD Orders SWD-1654 and SWD 1671.

Table 2: Surface Owners Within One Half Mile of Targa Monument AGI System

Surface Owner	Legal	Acres
State of New Mexico New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501	<u>T19S-R36E</u> Section 25: SE/4, E/2SW/4	240.00
	Section 36: NW/4, S/2NE/4, N/2SE/4, N/2N/2SW/4	360.00
	<u>T20S-R36E</u> Section 1: Pt. W/2NE/4, Pt. NW/4, SW/4, Pt. SE/4	463.65
DLD Corporation & Any Successors-in Interest/Assignees 1314 Brittany Hobbs, NM 88240	<u>T19S-R36E</u> Section 36: S/2N/2SW/4 Parcel #: 4000428830001	40.00
Versado Gas Processors, LLC 1900 Dalrock Rd. Rowlett, TX 75088	<u>T19S-R36E</u> Section 36: S/2SW/4, SW/4SE/4 Parcel #: 4000423510003	120.00
	<u>T20S-R36E</u> Section 1: Pt. N/2NE/4NW/4 Parcel #: 4000423510004	18.13
Chevron USA, Inc. P.O. Box 285 Houston, TX 77001	<u>T19S-R36E</u> Section 36: SE/4SE/4 Parcel #: 4000409030001	40.00
Charlie F. Byrd, et al P.O. Box 32 Monument, NM 88265	<u>T19S-R37E</u> Section 31: W/2, W/2NE/4, Pt. E/2NE/4 Parcel #: 4000402920004	460.44
	<u>T20S-R37E</u> Section 6: Lots 3 – 5, SE/4NW/4 Parcel #: 4000402920002	157.77

James R. Byrd P.O. Box 32 Monument, NM 88265	<u>T20S-R36E</u> Section 1: Pt. NE/4 Parcel #: 4000792560001	33.93
Juan Carlos Martinez 210 W. Chance Dr. Hobbs, NM 88242	<u>T20S-R36E</u> Section 1: Pt. NW/4 Parcel #: 4000407150001	9.56

FIGURES



Figure 1: Locations of AGI Wells at Targa Monument Natural Gas Plant

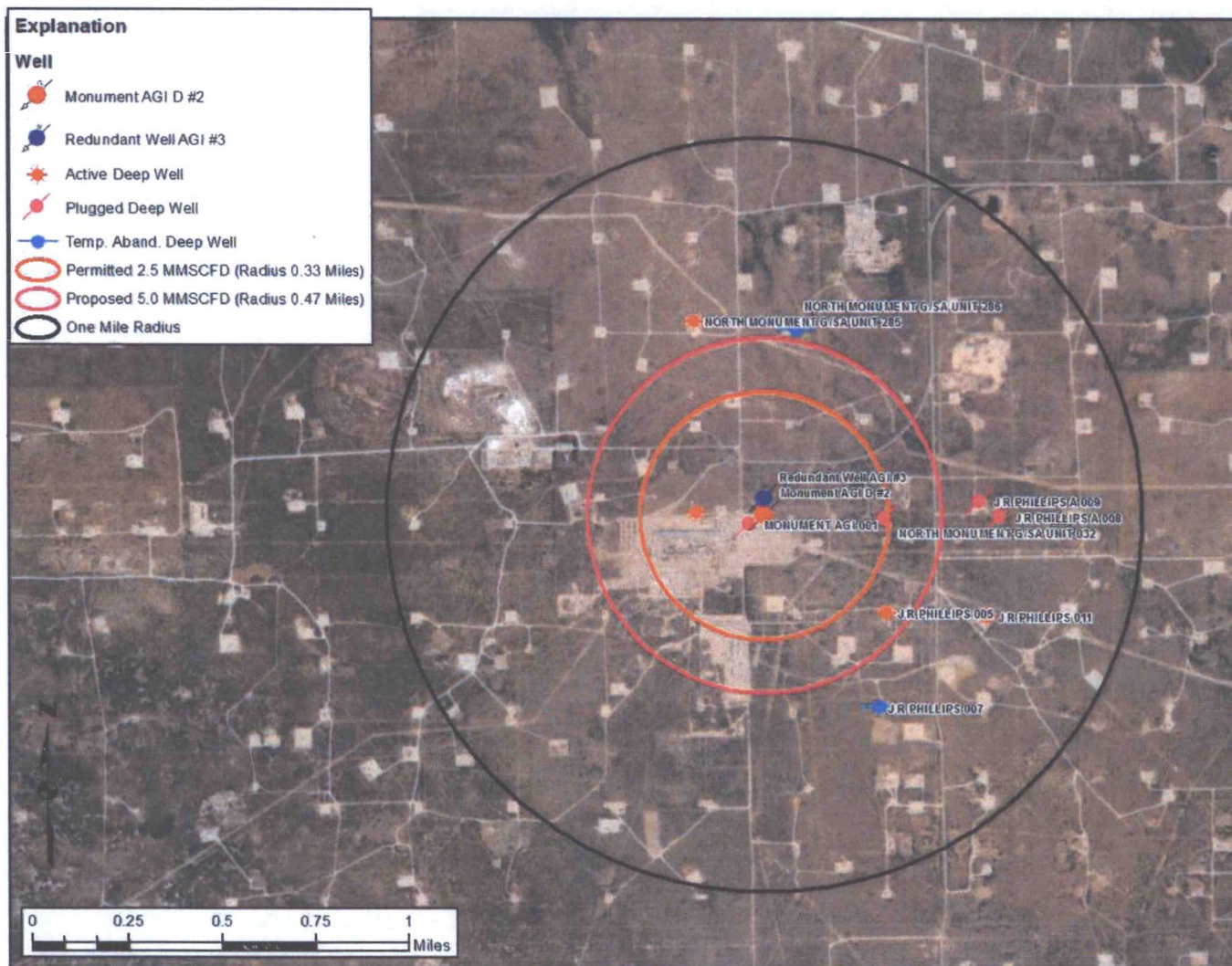


Figure 2: Calculated Radii of TAG Plume From AGI #D2 after 30 Years of Injection at 2.5 MMSCFD (0.33 Miles) and 5.0 MMSCFD (0.47 Miles)

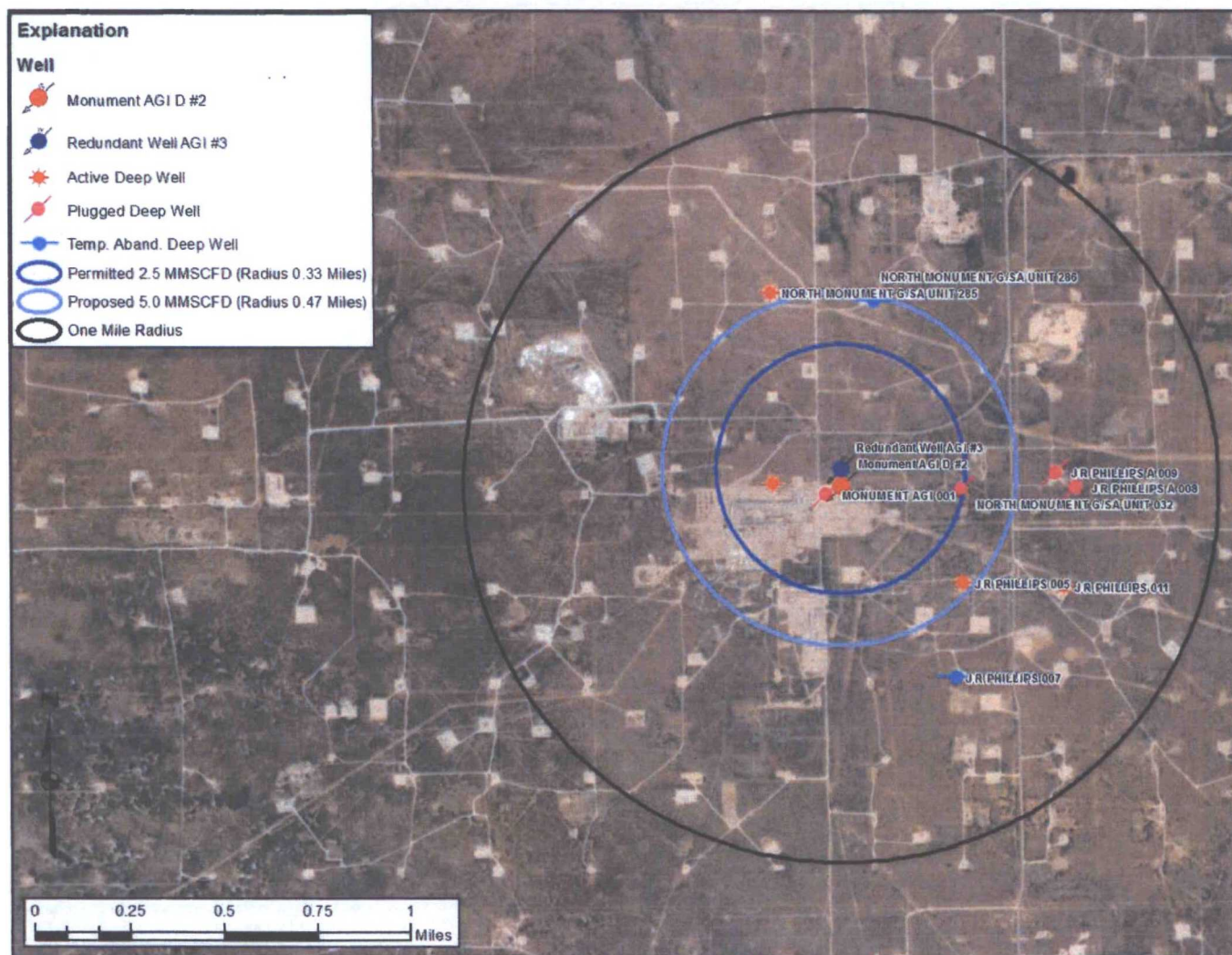


Figure 3: Calculated Radii of TAG Plume From AGI #3 after 30 Years of Injection at 2.5 MMSCFD (0.33 Miles) and 5.0 MMSCFD (0.47 Miles)

ATTACHMENT A

COMPLETION AND RECOMPLETION RECORDS, J. R. PHILLIPS OO5 (API 3002504134)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

DUPLICATE

REQUEST FOR (OIL) - (GAS) ALLOWABLE

RECOMPLETION
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Monument, New Mexico

July 24, 1956

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Amerada Petroleum Corporation J.R. Phillips, Well No. 5, in NE $\frac{1}{4}$ NE $\frac{1}{4}$,
(Company or Operator) (Lease)

A, Sec. 1, T. 20-S, R. 36-E, NMPM, Monument McKee Pool
(Unit) Recompleted - July 17, 1956

Lee County. Date Completed, Date Completed

Please indicate location:

			#5

R-36-E

Elevation 3576' DF Total Depth 9953' P.B. 9885'

Top oil/gas pay 9610' Name of Prod. Form Simpson Sand

Casing Perforations: 9610' to 9700'; 9710' to 9740'; 9750' to 9790' & 9800' to 9870'

Depth to Casing shoe of Prod. String

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs. Mins.

Gas Well Potential Calculated Open Flow 26,600,000 cu. ft. of gas per day, with 65 bbls. of 65.9 gravity tank distillate.

Size choke in inches

Date first oil run to tanks or gas to Transmission system: July 17, 1956

Gas - Permian Basin Pipe Line Company

Transporter taking Oil or Gas: Oil - Texas-New Mexico Pipe Line Company

Casing and Cementing Record

Size	Feet	Sax
16" <u>281</u>	<u>149</u>	<u>300</u>
11-3/4" <u>2419'</u>	<u>2050</u>	
8-5/8" <u>5121'</u>	<u>1290</u>	
5-1/2" <u>9941'</u>	<u>1900</u>	

Remarks: After perforating, ran tubing, opened well & started flowing naturally.

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

Approved 1956, 19

Amerada Petroleum Corporation
(Company or Operator)

OIL CONSERVATION COMMISSION

By: [Signature]
(Signature)

By: [Signature]

Title Foreman

Send Communications regarding well to:

Title [Signature]

Name Amerada Petroleum Corporation

Monument, New Mexico

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO. 30-025-04134
5. Indicate Type Of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. Lease Name or Unit Agreement Name J. R. Phillips	
b. Type of Completion: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____			
2. Name of Operator Amerada Hess Corporation		8. Well No. 5	
3. Address of Operator P.O. Box 840 Seminole, TX 79360		9. Pool name or Wildcat Monument Abo	
4. Well Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line			
Section <u>1</u> Township <u>20S</u> Range <u>36E</u> NMPM <u>Lea</u> County			
10. Date Spudded 5-8-47	11. Date T.D. Reached	12. Date Compl.(Ready to Prod.) 7-12-98	13. Elevations(DF & RKB, RT, GR, etc.) 3587' DF
14. Elev. Casinghead			
15. Total Depth 9953'	16. Plug Back T.D. 7785'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 6968' - 7685' Monument Abo			20. Was Directional Survey Made
21. Type Electric and Other Logs Run VSI/CCL/GR			22. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	169'	24"	Csq. ran in	well in 1947.
11-3/4"	60#	2419'	15"	Csq. ran in	well in 1947.
8-5/8"		5121'	10-5/8"	Csq. ran in	well in 1947.
5-1/2"	17#	9941'	7-3/4"	Csq. ran in	well in 1947.

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-7/8"	7443'

26. Perforation record (interval, size, and number) Perf. 5-1/2" csg. using 4" Hogs csg. gun w/4 SPF at following: 6968'-6971', 6979'-6982', 6989'-6992', 7000'-7060', 7070'-7145' CONTINUED OVER	27. ACID, SHOT, FRACTURE CEMENT, SOEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	7785' - 6968'	Set 5-1/2" CIBP
	6968' - 7685'	Acidized w/19.600 gal. 15% HCL.
5159' - 5191'	Pumped 100 sks. premium plus	

28. PRODUCTION							
Date First Production 6-9-98		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping: 25-125-RHBC-20-6-5-2				Well Status (Prod. or Shut-in) Producing	
Date of Test 7-19-98	Hours Tested 24 Hours	Choke Size	Prod'n For Test Period	Oil - Bbl. 26	Gas - MCF 191	Water - Bbl. 73	Gas - Oil Ratio 7346
Flow Tubing Press. 280	Casing Pressure 20	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By
--	-------------------

30. List Attachments C-103, C-104

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief	
Signature <u>R. L. Wheeler, Jr.</u>	Printed Name <u>R. L. Wheeler, Jr.</u> Title <u>Admin. Svc. Coord.</u> Date <u>7-23-98</u>

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____ Please refer
T. Salt _____ original well
B. Salt _____ completion.
T. Yates _____
T. 7 Rivers _____
T. Queen _____
T. Grayburg _____
T. San Andres _____
T. Glorieta _____
T. Paddock _____
T. Blinbry _____
T. Tubb _____
T. Drinkard _____
T. Abo _____
T. Wolfcamp _____
T. Penn _____
T. Cisco (Bough C) _____

T. Canyon _____
T. Strawn _____
T. Atoka _____
T. Miss _____
T. Devonian _____
T. Silurian _____
T. Montoya _____
T. Simpson _____
T. McKee _____
T. Ellenburger _____
T. Gr. Wash _____
T. Delaware Sand _____
T. Bone Springs _____
T. _____
T. _____
T. _____
T. _____

Northeastern New Mexico

T. Ojo Alamo _____
T. Kirtland-Fruitland _____
T. Pictured Cliffs _____
T. Cliff House _____
T. Menefee _____
T. Point Lookout _____
T. Mancos _____
T. Gallup _____
Base Greenhorn _____
T. Dakota _____
T. Morrison _____
T. Todilto _____
T. Entrada _____
T. Wingate _____
T. Chinle _____
T. Permian _____
T. Penn "A" _____

T. Penn. "B" _____
T. Penn. "C" _____
T. Penn. "D" _____
T. Leadville _____
T. Madison _____
T. Elbert _____
T. McCracken _____
T. Ignacio Otzte _____
T. Granite _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
No. 2, from _____ to _____

No. 3, from _____ to _____
No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
No. 2, from _____ to _____ feet
No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
			Please refer original well completion.				
			26. Perforations Cont.				
			7155' - 7260', 7335' - 7345',				
			7370' - 7380', 7440' - 7455',				
			7475' - 7515', 7540' - 7560',				
			7590' - 7600', & 7650' - 7685'.				

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.	30-025-04134
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	J. R. Phillips
8. Well No.	5
9. Pool name or Wildcat	Monument Abo

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. Name of Operator Amerada Hess Corporation	
3. Address of Operator P. O. Box 840, Seminole, Texas 79360	
4. Well Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>1</u> Township <u>20S</u> Range <u>36E</u> NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3587' DF	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: Recompletion. ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

6-1 thru 7-12-98

MIRU Dawson Prod. Svc. pulling Unit. Removed wellhead, installed BOP & TOH w/tbg. & pkr. TIH w/4.34" gauge ring to 7830' & TOH. TIH w/5-1/2" CIBP set at 7785'. Circ. tbg. & csg. w/KCL water & press. tested csg. to 500 PSI. Held OK. Schlumberger ran VSI/CCL/GR log. Schlumberger perf. 5-1/2" csg. in Abo Zone using 4" Hegs csg. gun w/4 SPF, total 1569 shots. at following intervals: 6968' - 6971', 6979' - 6982', 6989' - 6992', 7000' - 7060', 7070' - 7145', 7155' - 7260', 7335' - 7345', 7370' - 7380', 7440' - 7455', 7475' - 7515', 7540' - 7560', 7590' - 7600' & fr. 7650' - 7685'. American Fracmaster acidized Abo Zone 5-1/2" csg. perfs. fr. 6968' - 7685' w/19,600 gal. 15% HCL acid. Swabbed & flowed well. GPM connected gas Meter No. 711202 & began taking gas on 6-12-98. CONTINUED OVER

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

SIGNATURE Roy L. Wheeler, Jr. TITLE Admin. Svc. Coord. DATE 7-23-98

TYPE OR PRINT NAME Roy L. Wheeler, Jr. TELEPHONE NO. 915 758-6700

(This space for State Use)

APPROVED BY ORIGINAL SIGNATURE OF R. L. WILLIAMS
DISTRICT SUPERVISOR

TITLE _____ DATE SEP 03 1998

CONDITIONS OF APPROVAL, IF ANY:

TIH w/TAC on 2-7/8" tbg. & set tbg. OE at 7747'. Swabbed well. TIH w/pump & rods, could not get below 6888'. TOH w/rods, pump, & tbg. TIH w/4-3/4" csg. swedge to 7785' & TOH. TIH w/pkr. testing at intervals & located csg. leak between 5159' - 5191'. TIH w/5-1/2" Md. "G" Baker RBP set at 6325'. Spotted 2 sks. sand on top RBP. TIH w/5-1/2" cement retainer set at 5061'. Halliburton Svc. pumped 100 sks. premium plus neat cement. WOC. TIH w/4-3/4" bit, tagged TOC at 5056' & drld. cement, retainer fr. 5061' - 5063' & cement out at 5207'. Circ. well clean. TIH, circ. sand off RBP at 6325', latched onto & TOH w/RBP. TIH w/5-1/2" Baker TAC on 2-7/8" tbg. & set tbg. at 7443' w/TAC at 6912'. Removed BOP & installed wellhead. TIH w/pump & rods. RDPU & cleaned location. Set pumping unit & motor. Connected electrical svc. & began pumping well on 7-12-98.

Test of 7-19-98: Produced 26 B.O./D., 73 B.W./D., & 191 MCFGPD in 24 hours.

ATTACHMENT B

**PLUGGING AND RECOMPLETION RECORDS, NORTH MONUMENT G/SA UNIT 286
(3002520517)**

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Amerada Petroleum Corporation				Address P. O. Box 668 - Hobbs, New Mexico			
Lease State #1	Well No. 5	Unit Letter G	Section 36	Township 19-S	Range 36-E		
Date Work Performed	Pool Monument - McKee			County Lea			

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☐ Casing Test and Cement Job
 ☐ Other (Explain):
☒ Plugging
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Permission to perform the following work was obtained from Mr. E. Engbrecht by telephone 2-27-63.

10,306' total depth - Dry hole. Cement plugs spotted as follows: 25 sack Trinity set cement plugs from 10,080' to 10,190', 9790' to 9900', 9068' to 9170', 8180' to 8290', 7865' to 7975', 6770' to 6880', 6205' to 6315', 5642' to 5752', 5075' to 5185', and 1-35 sack cement plug from 3750' to 3840' and in 7-5/8" casing from 3688' to 3750'. Left all 10-3/4" and 7-5/8" OD casing in hole. Filled hole with mud and installed 6" Ser. 600 bonnet and valve on well head.

Well Temporarily abandoned 3-1-63. Plan to hold for possible future use as a salt water disposal well.

Witnessed by I. W. Wiseman		Position Foreman		Company Amerada Petroleum Corporation			
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY							
ORIGINAL WELL DATA							
DF Elev.	TD	P BTD		Producing Interval		Completion Date	
Tubing Diameter		Tubing Depth		Oil String Diameter		Oil String Depth	
Perforated Interval(s)							
Open Hole Interval				Producing Formation(s)			
RESULTS OF WORKOVER							
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD	
Before Workover							
After Workover							
OIL CONSERVATION COMMISSION				I hereby certify that the information given above is true and complete to the best of my knowledge.			
Approved by <i>[Signature]</i>				Name <i>E. C. [Signature]</i>			
Title				Position District Superintendent			
Date				Company Amerada Petroleum Corporation			

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-20517
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-1626
7. Lease Name or Unit Agreement Name	
STATE "V"	
8. Well No.	5
9. Pool name or Wildcat	EUNICE MONUMENT GB/SA
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	

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 ☐ GAS WELL ☐ OTHER P & A'd

2. Name of Operator
Amerada Hess Corporation

3. Address of Operator
P. O. Drawer D, Monument, NM 88265

4. Well Location
Unit Letter G : 1980 Feet From The NORTH Line and 1830 Feet From The EAST Line

Section 36 Township 19S Range 36E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. 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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: Status chg. fr. PA'd to TA'd. <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

AHC State "V" #5 (08-07-95 Thru 08-11-95)

Tyler Well Service RUPU. Halliburton Svc. tapped the 2" bull plug on surface csg. Recorded the press. at 600 psi. Bled the press. off to reverse pit in 1 min. Install BOP on 10" surf. csg. flange. Ran bit on drill collars & drilled solid cmt. fr. the surf. to 150'. Fell free & ran drill collars for a total of 8 drill collars. Ran tbgs. & tagged up at 722'. Circ. clean. Star Tool drld. out plug to 722'. Drld. & cleaned out 7-5/8" prod. csg. to 3,136'. Recovered heavy mud & emulsion. Circ. clean. Drld. out & circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy mud. Tst'd csg. to 540 psi. Held OK. Pulled & laid dwn. tbgs., drill collars and bit. Schlumberger RU & ran PAL fr. 3,670' to surf. Csg. good. Ran cmt. bond log fr. 3,670' to surf. Found TOC at 1,750'. Have free pipe fr. there to surf. Note: Well passed the csg. integrity (Continued On Back)

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

SIGNATURE Terry L. Harvey TITLE Sr. Staff Assistant DATE 09-18-95
TYPE OR PRINT NAME Terry L. Harvey TELEPHONE NO. 505 393-2144

(This space for State Use)

APPROVED BY Terry L. Harvey TITLE Sr. Staff Assistant DATE OCT 02 1995
CONDITIONS OF APPROVAL, IF ANY Approval of Temporary Abandonment Expires 9-15-98

test. Schlumberger shot 4 holes in 7-5/8" prod. csg. at 1,510'. Ran Baker loc-set pkr. & set at 1,384'. Star Tool circ. 100 bls. fresh water through 7-5/8" csg. perfs. & out 10-3/4" surf. csg. at 4 BPM & 200 psi. TOH w/tbg. & pkr. Ran cmt. retainer on tbg. Pumped through tool w/10 bbls. fresh water & set at 1,450'. Halliburton pressured up on the csg. to 500 psi. Established rate into the perfs. at 3 BPM at 200 psi. Pumped 400 sacks of Premium Plus cmt. w/2% Calcium Chloride. Circ. out 10-3/4" surf. csg., pumped 4 sks. to pit, left 4 sks. on top of the retainer, left 12 sks. below the retainer & 380 sks. in the formation & between the 7-5/8" & 10-3/4" csg. Stung out of the retainer & reversed out. TOH w/the tbg. Removed the BOP & capped the wellhead. Cleaned location and RD & moved out pulling unit. TA'd well. Well donated to unit as NMGSAU Well No. 1423. NMOCD Well No. 286. Well TA'd for future use in North Monument Grayburg San Andres Unit.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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.)		WELL API NO. 30-025-20517 ✓
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Apache Corporation ✓		6. State Oil & Gas Lease No. BO-1626
3. Address of Operator 6120 S Yale Ave, Suite 1500 Tulsa, OK 74136-4224		7. Lease Name or Unit Agreement Name North Monument G/SA Unit: Blk 14 Well 23
4. Well Location Unit Letter G : 1980 feet from the North line and 1830 feet from the East line Section 36 Township 19S Range 36E NMPM County Lea		8. Well Number 286 ✓
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3603' DF		9. OGRID Number 00873 ✓
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Eunice Monument, Grayburg-San Andres
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Request extension to TA status ☒

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Notified OCD of MIT. Successfully ran MIT 3/25/2008. See attached chart.

Apache respectfully requests to extend TA status on this well.

RECEIVED

APR 11 2008

HOBBS OCD

This Approval of Temporary
Abandonment Expires 4/16/2013.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Sophie Mackay TITLE Engineering Tech DATE 04/04/2008

Type or print name Sophie Mackay
For State Use Only

E-mail address: sophie.mackay@apachecorp.com Telephone No. (918)491-4864

APPROVED BY: Chris Williams TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER

Conditions of Approval (if any):

DATE APR 16 2008

James C. Hunter, R.G.

Summary of Education and Experience

- University of New Mexico, 1980: B.S. (Honors) – Geology
- Colorado School of Mines, 1986: M.S. – Geology
- Registered Professional Geologist: State of California #4467
- Previous Experience: Tenneco Minerals, Los Alamos National Laboratory, Geoscience Consultants, Ltd., Mariah Associates, Monteverde Environmental Consultants, J. C. Hunter & Associates
- Geolex, Inc. from 1997 to present. Projects include:
 - Acid gas injection (AGI) project management for a total of 17 AGI wells for clients including: Agave, Anadarko, DCP Midstream, Frontier Field Services, Holly Frontier, Regency, Santa Fe Midstream, Southern Union, Stakeholders Midstream, and Targa.
 - Developed and applied methods to calculate the migration of acid gas injected into underground reservoirs, incorporating reservoir petrophysical properties and acid gas phase equilibria over a wide range of pressures and temperatures.
 - Designing replacement AGI wells that were completed in existing, active AGI reservoirs. These wells required significant attention to metallurgy (corrosive-resistant alloys) and specialized cements, as well as drilling techniques and enhanced safety protocols.
 - Planned and implemented workover projects for AGI wells with operational problems, including hydrate blockages, gas bubbles, tubing and/or casing failures, and mechanical problems including surface and subsurface equipment.

GEOLEX
INCORPORATED

Basis of Request for Order Modification

- Since the replacement well AGI D#2 was placed in operation, there have been significant increases in the CO₂ levels in the feed gas received by the Monument plant, and the amount of gas available for the plant has also increased.
- These conditions have created a need for additional gas processing which benefits operators, the State of New Mexico and Targa.
- The increased TAG plume will not impact any wells that penetrate the injection zone and that are not properly cased and cemented to prevent TAG migration.
- Step rate testing of AGI D#2 demonstrates that the MAOP currently approved will be sufficient to accommodate the proposed 5.0 MMSCFD injection rate.
- All of the potentially affected interested parties have been properly notified and have not objected to Targa's application for an increased injection rate.

Background and Regulatory History

- November 18, 2008: NMOCD approves application for Targa Monument AGI #1 (Order R-13052) injecting mixed wastewater and TAG in the Devonian and Fusselman zones. The mixed-fluid MAOP was 1,660 psig, with no limits on either wastewater or TAG injection rates.
- November 7, 2011: Case re-opened and NMOCC issued an amended Order (R-13052-A) capping the total injection rates at 5,000 BBL/day with a maximum TAG amount of 1,400 BBL/day (1,400 BBL/day is approximately 1 BBL/min or 2.5 to 2.7 MMSCFD at normal surface temperatures and pressures).
- August 2016: Mechanical problems force the plugging and abandonment of Targa AGI #1.
- October 19, 2016: NMOCD approves an administrative Order (SWD-1654) to replace AGI #1 with AGI D#2 in the same zones, with a MAOP of 3,000 psig for TAG only, and a maximum injection rate of 2.5 MMSCFD.
- April 4, 2017: NMOCD and Geolex brief NMOCC on failure of AGI #1 well, status of replacement well AGI D#2 and the AGI #3 application status.
- April 24, 2017: NMOCD approves an administrative Order (SWD-1671) for a additional AGI well (AGI #3), again with an MAOP of 3,000 psig and an injection rate of 2.5 MMSCFD.
- May 25, 2017: Targa files request for injection rate increase with NMOCC after conferring with NMOCD technical staff.

Operational History of AGI #D2 (March through May, 2017)

- The average injection rate was 1.36 MMSCFD, with a maximum of 2.15 MMSCFD.
- During this period the average surface pressure was 1,707 psig, with a maximum of 1,961 psig.
- As seen in Figure 3, both surface and bottom hole pressure do not significantly increase with higher injection rates.
- Surface pressures currently remain at least 1,000 psig below the MAOP of 3,000 psig.
- Bottom hole pressures averaged 4,576 psig, with a maximum of 4,848 psig.

FIGURE 2: MONUMENT AGI D #2 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION RATE

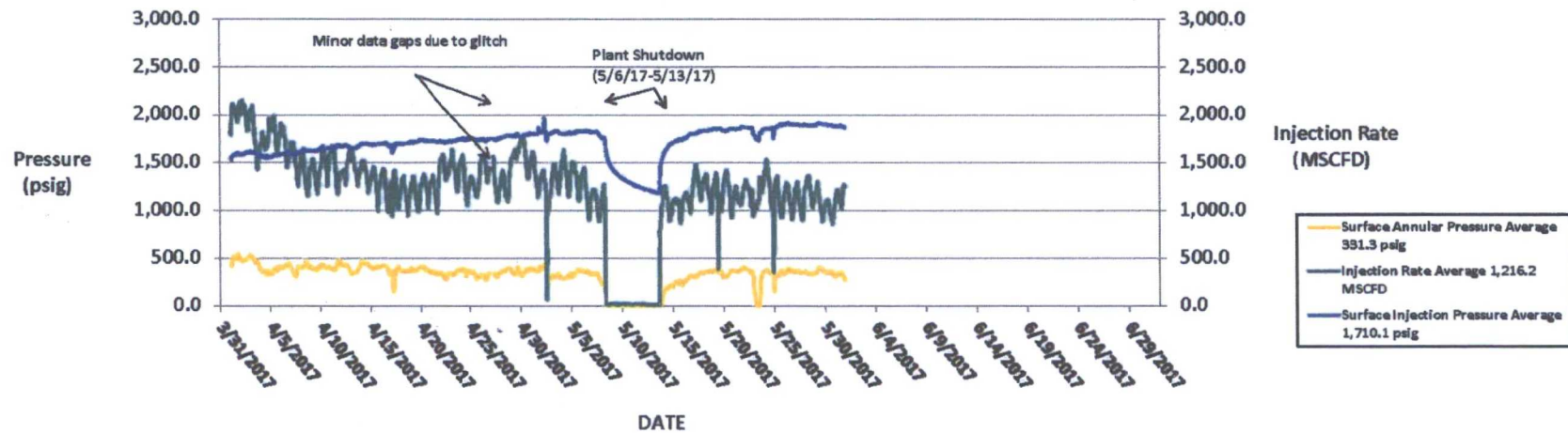


Figure 3: Injection Rate vs Injection Pressure, Second Quarter 2017

Effect of Proposed Injection Rate Increase

- The increase of injection rates from 2.5 to 5.0 MMSCFD only expands the calculated TAG plume from 0.33 to 0.47 miles.
- In Orders SWD-1654 and SWD-1671, three wells were identified and reviewed. The conditions of these wells were deemed acceptable for injection approval.
- As shown in Figure 4, only one additional well (J. R. Phillips 005) was identified as within the proposed expanded TAG plume from AGI #2D. As detailed in Attachment A of Targa's May 25, 2017 Application, records indicate that this well is properly cemented across the injection zone and poses no threat for TAG migration.
- With respect to the permitted but not-yet-drilled Targa AGI #3, this well's proposed expanded TAG plume will only encompass one additional well, the North Monument G/SA Unit 286. Records included in our May 25 application demonstrate that this well is properly cemented across the injection zone.

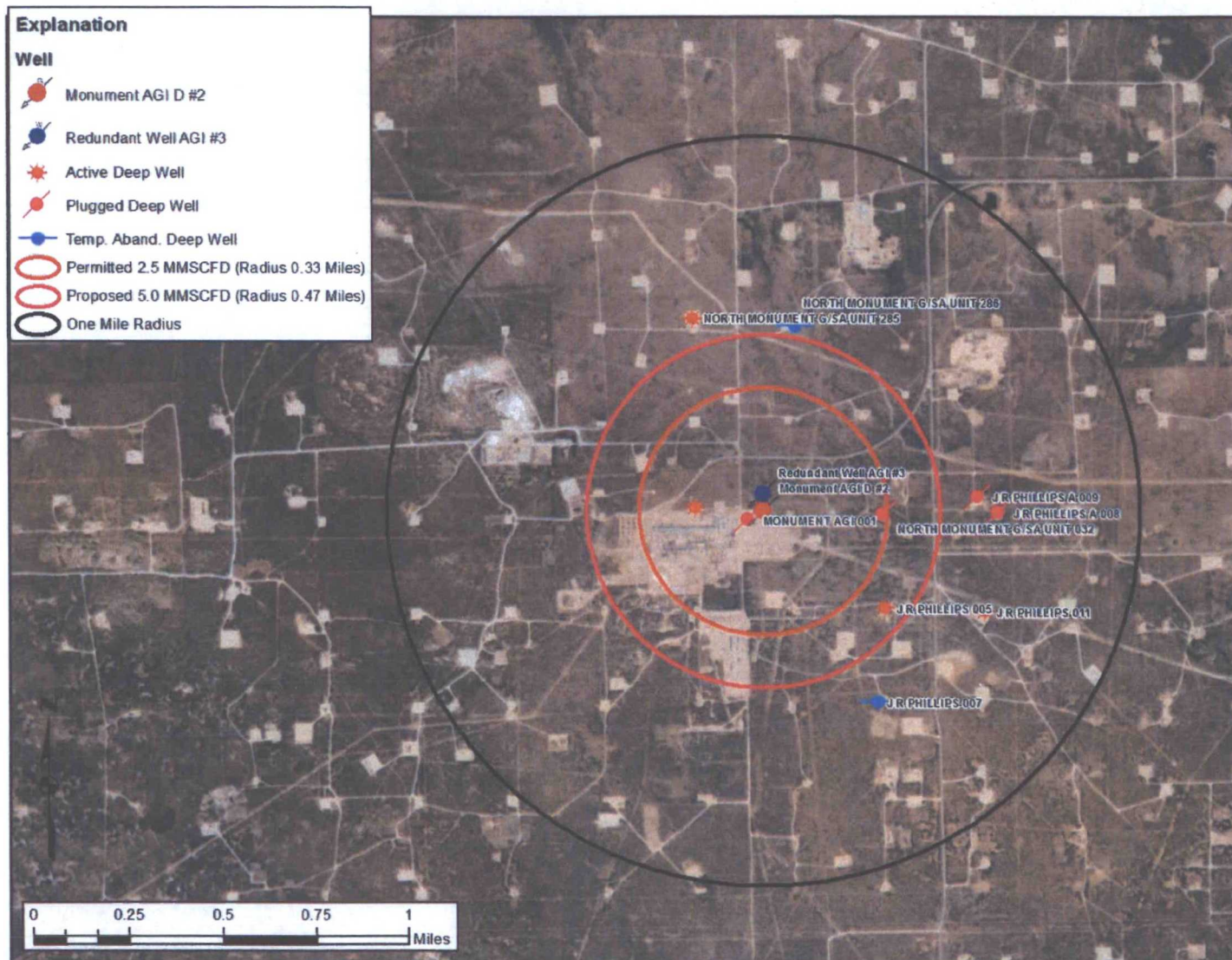


Figure 4: Calculated Radii of TAG Plume From AGI D#2 after 30 Years of Injection at 2.5 MMSCFD (0.33 Miles) and 5.0 MMSCFD (0.47 Miles)

Identification and Notification of Interested Parties in Area of Review

- In preparing the applications for the replacement well AGI D #2 and approved well AGI #3, operators, lease holders and surface owners were identified and notified (see Appendix B of the C-108 application).
- The area of review was re-evaluated for the increased injection rate application, and three additional parties were included in the notification due to the expanded projected TAG plume.
- Return receipts indicate that notifications were received and no protests to this application have been filed.

Summary

- Targa requests that the current maximum injection rate for their Monument Gas Plant be raised from 2.5 to 5.0 MMSCFD.
- This injection increase remains a safe and effective method for disposing of TAG that will be generated from both the increase in CO₂ in inlet gas, as well as the anticipated growth in production and processing.
- Targa will continue to maintain the current MAOP of 3,000 psig, and will comply with all of the other conditions of Orders R-13052, R-13052-a, and SWD1654 and SWD-1671.
- The approved H₂S contingency plan for this facility incorporates H₂S concentrations and volumes which will be encountered in at the proposed injection rate.

June 13, 2016

State of New Mexico
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Targa Midstream Services LLC Application for Approval to Increase Injection Rate at
Targa Monument AGI D#2 NMOCC CASE 15740, July 13, 2017

TARGA MIDSTREAM SERVICES LLC, whose address is 1000 Louisiana, Suite 4300, Houston, TX 77022-5036, proposes to increase the approved injection rate in order (R-13502-A) to 5MMSCFD of treated acid gas from its natural gas plant operations in Monument, New Mexico. The Monument AGI D#2 well (API # 30-025-43470) located 685' FSL and 2,362' FEL of Section 36, T19S, R36E in Lea County, New Mexico. This request is the only change proposed to the existing order and all other parameters such as the injection zone, depths, pressure remain the same for this well as are currently approved under NMOCD Order R-13052, 13502-A and SWD-1654 and 1671. The injection interval remains unchanged in the Devonian/Fusselman formations at a depth of approximately 8,350 to 9,200 feet. The proposed maximum average injection rate will be approximately 5.0 million standard cubic feet per day of acid gases, at the already approved a maximum surface pressure of 3,000 psig. This increased rate does not affect any additional wells than those originally identified in the applications which formed the basis for the existing approved injection orders. Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

Inquiries regarding this application should be directed to Mr. Alberto A. Gutierrez or Mr. James C. Hunter at Geolex Inc, 500 Marquette Ave. NW, Albuquerque New Mexico 87102, (505)-842-8000.

Sincerely,
Geolex, Inc.

Alberto A. Gutiérrez, C.P.G.
President
Consultant to Targa Midstream Services LLC

Enclosure: Application to the NMOCC for an Amendment to Orders R-13052, R-13052-A,
SWD-1654 and SWD-1671 to Increase the Approved Aggregate Daily Injection Rate
for Targa Monument AGI System from 2.5 to 5.0 MMSCFD

G:\17-012\Reports\NMOCC Application for Rate Increase\StateNM Notice Letter.docx

Before the Oil Conservation Commission
Santa Fe, New Mexico
Exhibit No. 5
Submitted by: Targa Midstream Services LLC
Hearing Date: July 13, 2017
Case No. 15740

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City, State, ZIP+4® Monument NM 88265

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Before the Oil Conservation Commission
Santa Fe, New Mexico
Exhibit No. 5B
Submitted by: Targa Midstream Services LLC
Hearing Date: July 13, 2017
Case No. 15740

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CHARLIE BYRD

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Guillermo Puente
ROSE Puente

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PO Box 32
Monument NM 88265

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Joanne Byrd
JOANNE BYRD

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☐ Addressee

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C. Date of Delivery

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J. Berry
J. Berry

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☐ Addressee

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FIGURE 2: MONUMENT AGI D #2 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION RATE

