GW - 344

H₂S CONTINGENCY PLAN

Jones, Brad A., EMNRD

From: Sent: To: Subject: Jones, Brad A., EMNRD Thursday, August 11, 2011 4:08 PM 'Wrangham, Calvin W.' RE: Eunice Plan

The Oil Conservation Division has completed the review of the Targa Eunice Gas Plant and AGI Pipeline/Well site Hydrogen Sulfide (H2S) Contingency Plan, dated August 11, 2011, and has determined it to be adequate. Targa Midstream Services, LLC has submitted a H2S contingency plan that demonstrates compliance with the applicable provisions of 19.15.11 NMAC. Targa Midstream Services, LLC shall implement the H2S Contingency Plan immediately and provide copies of the plan to the appropriate parties identified on the distribution list provided in Appendix B.

Thank you for your cooperation in resolving the H2S contingency plan. The OCD appreciates all of the time and effort of you and your staff in making the appropriate revisions to the plan. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or <u>brad.a.jones@state.nm.us</u>.

Brad A. Jones Environmental Engineer Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 E-mail: <u>brad.a.jones@state.nm.us</u> Office: (505) 476-3487 Fax: (505) 476-3462

From: Wrangham, Calvin W. [mailto:CalvinWrangham@targaresources.com] Sent: Thursday, August 11, 2011 4:01 PM To: Jones, Brad A., EMNRD Subject: Eunice Plan

Cal Wrangham

Targa Resources ES&H Manager 6 Desta Dr. Suite 3300 Midland, TX. 79705 (432) 688-0542

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August 29, 2011

Mr. Glenn Von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Subject: Targa Midstream Services LLC Eunice Gas Plant H₂S Contingency Plan, Eunice, NM

Dear Mr. Glenn Von Gonten:

Please find enclosed the Targa Midstream Services LLC Eunice Gas Plant H₂S Contingency Plan, previously submitted and approved electronically on August 11, 2011 by Mr. Brad Jones of the NMOCD. The Targa Eunice Gas Plant is located in Section 3, Township 22 South, Range 37 East in Eunice, Lea County, NM. The Acid Gas Injection Pipeline and Well is located in Section 3, 10, 15, 22, and 27, Township 22 South, Range 37 East, Lea County, NM. Please contact Mr. Cal Wrangham, Environmental Safety and Health Manger, at 432.688.0452 if you have any questions or require additional information, thank you.

Sincerely,

Larson & Associates, Inc.

Alexis Johnson Staff Professional - Engineering <u>Alexis@laenvironmental.com</u>

Enclosure (1) – Targa Eunice Hydrogen Sulfide Contingency Plan

c: Mr. Brad Jones – NM OCD
 Mr. Cal Wrangham – Targa Midstream Services LLC

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507 North Marienfeld, Suite 200 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456



H₂S CONTINGENCY PLAN

Targa Eunice Gas Plant and Acid Gas Injection Wellsite

> owned by Versado Gas Processors, L.L.C.

> operated by Targa Midstream Services LLC

> > August 11, 2011

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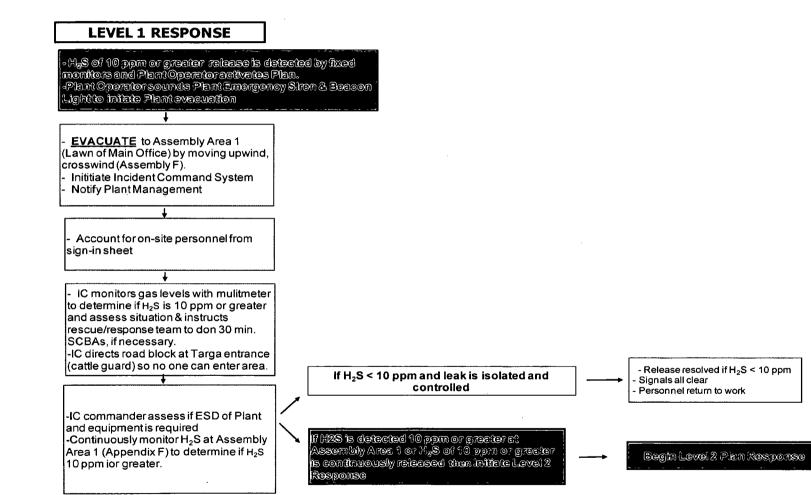
- Figure 1 Eunice Gas Plant, AGI Pipeline, and AGI Wellsite, Lea County, NM
- Figure 2 General schematic of pipeline release detection system
- Figure 3 Worst Case Scenario ROE

APPENDIX

Appendix A	Resident Phone Contact List (Residents in 500 ppm)
Appendix B	Distribution List
Appendix C	Radii of Exposure Calculation including Gas Analysis
Appendix D	Radii of Exposure Map of Plant
Appendix E	Radii of Exposure Map of AGI Well site
Appendix F	Emergency Assembly Areas and Roadblocks
Appendix G	Emergency Notification List
Appendix H	Targa Notification List
Appendix I	AGI Well site Evacuation Routes and Safety Equipment
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Appendix K	C-141
Appendix L	Employee Training Documentation Form

1. OPERATOR – QUICK REFERENCE

TARGA EUNICE GAS PLANT RELEASE



TARGA EUNICE GAS PLANT RELEASE

LEVEL 2 RESPONSE

evacuated by Eunice emergency responders' mass and reaction methods, assisted as

needed by Targa personnel.

H₂S detected at 10 ppm or greater at Assembly Area -Corrective actions at Level 1 unsuccessful - H₂S of 10 ppm or greater release Emergency Plant Stren & Descon Light contlinue Incident Commander determines if Plant and/or additional equipment should be shut-down. IC instructs notification and evacuation of affected public in 500 ppm ROE per Appendix A (Resident Phone List). -Simultaneous notification is made per Appendix G (Emergency Nofification List) and Appendix H (Targa Notification List). EVACUATE to Assembly Area 2 & Set-up roadblock (4th St. & TX Ave.) and Appendix F. Monitor for 10 ppm or greater. IC monitors gas levels for 10 ppm or greater, with mulitmeter, at Assembly Area 2 & If $H_2S < 10$ ppm roadclock and assess situation & instructs further evacuation, if necessary, to Assembly Area 3 (outside 100 ppm ROE) and recommend road block locations in Appendix - Residents in 100 ppm ROE (Figures 1 and 3) and public areas that could be effected are

Release resolved - Signals all clear - Personnel return to work - Notify parties on Appendix A,G & H and people in 100 ppm ROE of all clear status. Re-establish traffic.

If H₂S of 10 ppm or greater continues maintain evacuation levels until all gas is flared and system is de-pressurized.

TARGA EUNICE AGI PIPELINE RELEASE

LEVEL 1 RESPONSE

- Alarm sounds in control room initiating Plan in which the: ""H₂S content alarms at 10 ppm or greater, in the annulus, between outside of 16" and inside of 22" indicates leak on 16"

"Low air pressure flow alarm indicates 22" in. diameter pipeline is compromised.

- Operator initiates pipeline ESDs (see Appendix H) which isolates the pipeline and all gas is routed to flare for safe disposal.

- Control room operator alerts any personnel at AGI wellsite of the alarm via handeld phone/radio.

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- Personnel at AGI wellsite monitor H_2S levels for 10 ppm or greater, and evacuate to AGI Well/Pipeline Assembly Area 1 (Appendix F).

- Operations notifies facility management (Appendix F-Emergency Notification List) with simultaneous notification of Eunice emergency responders (Appendix G).

- Operations direct field operators to monitor H_2S levels along pipeline using portable H_2S monitors and evacuate anyone as necessary along right-of-way AGI Well/Pipeline Assembly Area 2 (Loop 207 & HWY 18) and notify residents per Appendix A (Resident Notification List).

-Monitor gas levels to below 10 ppm and when all gas has dissipated :

- Signals all clear

- Personnel return to work

- Notify parties on Appendix A, G, & H of all clear status

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TARGA EUNICE AGI WELLSITE RELEASE

LEVEL 1 RESPONSE

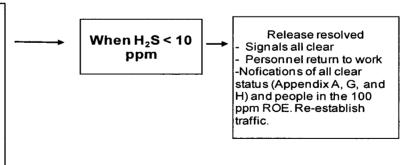
-H₂S of 10 ppm or greater detected by fixed monitors. -AGI Wellisite Audible Alarm & Light Beacon activated onsite and control room is aleried.

-If fixed monitors detect 20 ppm or greater the station will automatical be shutdown and gas will be routed to flare for safe disposal.

- Any employees at AGI Wellsite evacuate area, crosswind or upwind, to AGI Assembly Area 1 (Appendix F). -Notify Plant Operator of status. -Monitor H₂S for 10 ppm or greater at AGI Assembly Area 1.

LEVEL 2 RESPONSE

-If necessary, activate the station ESD this will shutdown all equipment and automatically all gas will be routed to flare for safe disposal. -Move to AGI Assembly Area 2 (Appendix F) enroute stop at home located south of AGI wellsite and evacuate resident (Greg Skiles, 575-631-1663). -Establish roadblocks and monitor roadblocks and assembly areas for 10 ppm or greater (AppendixF). - Simultaneously control room operator initiates notifications as necessary in Appendix A, G, and H. - Residents in the 100 ppm ROE (Figures 1 and 3) and public areas that could be effected are evacuated by Eunice emergency responders' mass and reaction methods, assisted as needed by Targa personnel.



TARGA NOTIFICATION LIST (also in Appendix H)

COMPANY PERSONNEL

Call the following persons in the order listed until one is notified of the emergency:

1. Area Management

Eunice Plant

Bill Little,	Eunice Area Manager	
Office	575-394-2534, ext. 226	Eunice, NM
Mobile	575-631-7099	

Alternate:

Frank Brainard, Eunice Operations Supervisor				
Office 575-394-2534, ext. 229				
Home	none			
Mobile	575-631-0420			

Alternate:

Eunice Field Supervisor
575-394-2516, ext. 327
575-631-1846
75-631-6026

Alternate:

Tim Jordan,	Saunders Plant Area Manager		
Office	575-396-3221 Lovington, NM		
Home	575-396-0189 Lovington, NM		
Mobile	575-631-7091		

Alternate:

Todd Young,	Area Manager	
Office	575-393-2823	ext. 234
Home	432-523-3770	Andrews, TX
Mobile	575-441-1645	

2. ES&H Group

Cal Wrangham, ES&H Manager

Office	432-688-0542	Midland, TX
Home	432-697-6580	Midland, TX
Mobile	432-425-7072	

Rebecca Woodell, ES&H Compliance SpecialistOffice575-394-2534, ext. 239Eunice, NMHome575-394-2280Mobile575-631-7085

Cindy Klein,ES&H Compliance SpecialistOffice575-396-3221, ext. 38Home575-398-6670Mobile575-631-7093

3. Region Manager

Clark White, Permian Basin Region Manager Office 713-584-1525 Houston, TX

4. Field Operators

Eunice Area

 Doyle Mapp
 575-631-7064

 Roger Holland
 575-631-7094

 Robert McBee
 575-631-7061

Call company support personnel in Houston, TX, as needed:

Assistant V-P ES&H

Jessica Keiser	713-584-1084
Cell Phone	713-263-4537

Corporate Security

Weldon Green	713-584-1301
Cell Phone	281-802-5351

LAW ENFORCEMENT AND EMERGENCY SERVICES

STATE POLICE New Mexico 575-392-5588

Resident Contact List (also in Appendix A)

	Name	Location	Phone Number
1	No occupant present	West of Plant	
2	Judy Landes	West of Plant	575-631-56800
3	Steve Brannon	West of Plant	575-394-1766
4	Harry Werner	West of Plant	575-394-3101
	Desert Oasis RV Park (Robin		
5	Peterson)	North West of Plant	575-394-0100
6	Musslewhite Trucking	North of Plant	575-394-4084
7	Warren Hughes	N32° 23.762' W103° 09.038'	575-394-2640
8	No occupant present	Southwest of Plant	No occupant present
9	No occupant present	Southwest of Plant	No occupant present
10	Donny Freudiger	Southwest of Plant	575-631-6997
11	Dorotea Reyna's	N32° 23.287' W103° 09.562'	575-394-2757
12	Anselrno Gayton	N32°23.031' W103° 09.530'	432-631-0707
13	Shena Gayton	N32°23.031' W103° 09.530'	432-631-1059
14	Paula Gayton	N32°23.031' W103° 09.530'	575-263-9058
15	Joe Ruiz	N32°22.866' W103° 09.558'	575-394-3310
		South of Eunice Booster	
16	Greg Skiles	Station	575-631-1663

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2. IMMEDIATE ACTION PLAN

Targa Plant Incident Commander is authorized to elevate the level of response based on observed conditions if a lower level response may not be effective in protecting personnel, the public or the environment.

The following outlines the immediate action Plan as provided in the Flow Diagrams in Section 1. When the individual hears, sees, or feels an alert as is recognized by audible, visual, or personal monitor vibration the individual is to proceed to safety as soon as possible which entails evacuation and donning 30-minute SCBA if escape is warranted. This is to be used when responding to an H_2S release occurring at the Plant, acid gas pipeline or the acid gas well. Additional or long term response actions will be determined on a case-by-case basis, if needed, once the Incident Command Center and System is established following the immediate response.

Some steps may be taken simultaneously.

- A. Request assistance, if needed.
 - 1. Move away from the source and get away from the affected area (downwind, crosswind, and out of low-lying areas).
 - 2. Don personal protective breathing equipment (30-minute SCBA) for escape.
 - 3. From the Plant area proceed to the designated Plant Emergency Assembly Area and alert supervisor by radio or phone in. Persons at the AGI wellsite and pipeline will evacuate crosswind, upwind, and outside of ROE as situation calls for and proceed to AGI Well and Pipeline Emergency Assembly Area and alert supervisor by radio or phone in. See Appendix F for location of Assembly Areas.
 - 4. Assist personnel in distress as directed by Incident Command with proper PPE, i.e., 30-minute SCBA unit.
 - 5. Evacuate as directed by Incident Command at Assembly Area 1, 2, or 3 depending on the "Level Response" outline beginning on Section 1 Flow Diagrams
 - 6. Account for on-site personnel using site sign-in log sheet.
- B. After a 30-minute SCBA is put on and Incident Command has designated, the emergency responder will take immediate measures to control the presence of or potential H₂S discharge and to eliminate possible ignition sources. Emergency shutdown procedures should be initiated as deemed necessary to correct or control the specific situation.
- C. After evacuation has occurred, the public will be alerted as directed by the Level Responses and directed by Incident Command (directly or through appropriate government agencies). Initiate evacuation of those within the exposure area. See Appendix A for phone contact list for locations in the 500 ppm Radius of Exposure (ROE) and alert the public that maybe effected that are located in the 100 ppm ROE either

directly or through appropriate government agencies by calling 911. See figure 1 and 3 for the 100 ppm locations. Eunice emergency responders will initiate mass notification and reactionary measures to alert the public.

- D. Contact the Area Manager or first available person on the call list. Notify them of the circumstances and whether or not immediate assistance is needed. The Area Manager should notify (or arrange for notification of) other supervisors and other appropriate personnel (including public officials) on the Appendix G and H call lists, as necessary.
- E. Cordon off the exposure area to prevent entry, make recommendations to public officials regarding blocking unauthorized access to the unsafe area, and assist as appropriate (Appendix F). Make recommendations to public officials regarding evacuating the public and assist as appropriate (Appendix G).
- F. Notify, as required, state and local officials and the National Response Center to comply with release reporting requirements. See Appendix G.
- G. First Aid Kits are located in the Plant Office building, Control Room, MCC building at AGI Well site, and in Targa Field Operator vehicles. Field Operator vehicles will be used for roadblocks (Appendix F). H2S monitors will be brought from the control room by the operators and from the field office by the field operators to any roadblocks or Assembly Areas being used. Monitoring will occur continuously for 10 ppm or greater at these sites to ensure no H2S is present.
- H. Monitor the ambient air in the area of exposure for 10 ppm or greater (after following abatement measures) to determine when it is safe for re-entry. Ensure all fixed monitors are clear and not alarming before entering these areas.

3. SCOPE

The Eunice Gas Plant is a natural gas processing plant which processes gas that contains hydrogen sulfide and/or sulfur dioxide. In addition, the Acid Gas Injection well and connecting pipeline convey hydrogen sulfide and carbon dioxide. This Hydrogen Sulfide Contingency Plan (Plan) has been developed to serve as a guidance document to protect the welfare of individuals and the environment in the event of a hazardous hydrogen sulfide release. The Plan satisfies and conforms to promulgated New Mexico Administrative Code rules and industry standards of facility handling of hydrogen sulfide:

- New Mexico Oil Conservation Division Rule 11 (NMAC, 2008);
- American Petroleum Institute's "Recommended Practices for Oil and Gas Producing and Gas Processing Plant Operations Involving Hydrogen Sulfide," Recommended Practice 55 (API, 2007).

Specifically, the Plan details, site-specific hydrogen sulfide release emergency response procedures that will be implemented to ensure a coordinated, efficient and immediate action Plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property.

The terms used in this Plan are to be used in the same manner as defined in Title 19 Chapter 15 Part 11 of the New Mexico Administrative Code (19.15.11.7- Definitions) unless otherwise defined herein.

Targa Eunice Gas Plant, the connecting pipeline to the AGI wellsite, and AGI wellsite have a series of control points allowing for shut down and isolation of gas streams and acid injection to mitigate gas release situations. Alarms will be activated at 10 ppm. Should it be necessary to shut in portions or all of the Plant, gathering system, or well site, Emergency Shut Down (ESD) valves can be activated by operations from the control room which will shut down the process and route gas to flare systems for combustion. In addition, the AGI well is shut in when emergency conditions dictate. These ESD valve locations are shown on Appendix I and J for the plant, pipeline, and well site.

3.1 PLANT LOCATION

The Plant is located in Eunice, Lea County, New Mexico and encompasses 20+ acres (Figure 1). It is owned by Versado Gas Processors L.L.C. and operated by Targa Midstream Services Limited Partnership:

- 1. <u>Plant location is Section 3, Township 22S, Range 37E in Eunice, Lea County, New Mexico.</u>
- 2. Plant coordinates are Latitude: 32.425264°N, Longitude: -103.147499°W.

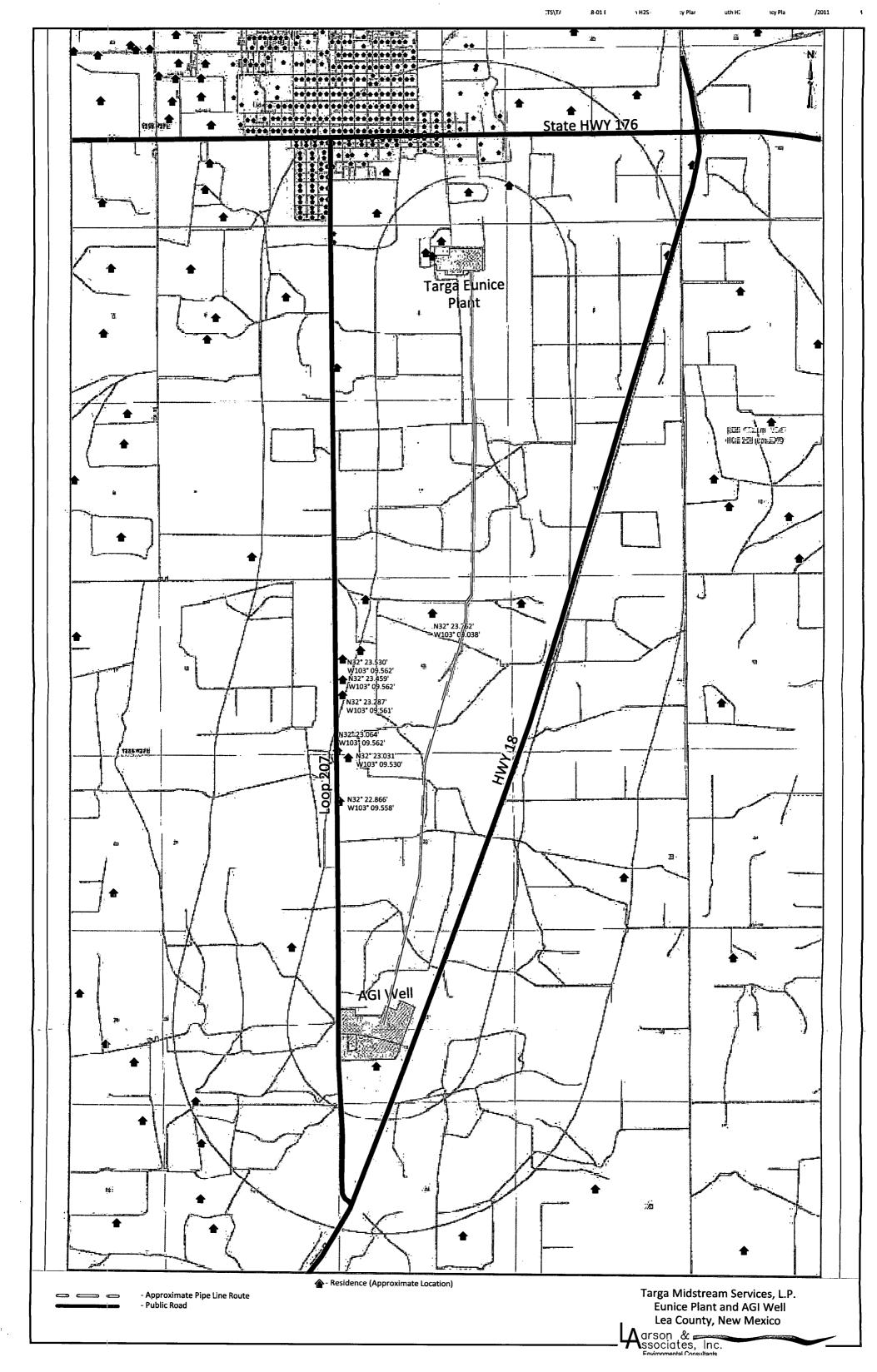
- 3. <u>Plant physical address is ¾ miles southeast of Eunice, New Mexico 88231.</u>
- 4. Plant mailing address is P. O. Box 1909, Eunice, New Mexico 88231.
- 5. <u>To reach the Plant from Eunice, NM, from the intersection of Main Street and Texas</u> <u>Avenue (New Mexico Highway 176), travel east on Highway 176 (approximately 0.6</u> <u>miles) to the intersection of US Hwy 176 and County Road 18 (Middle Plant Lane) in</u> <u>Eunice, New Mexico. Turn right onto County Road 18 and travel south approximately</u> <u>0.6 mile to the entrance to the Eunice Gas Plant.</u>

3.2 ACID GAS INJECTION PIPELINE AND WELL LOCATION

The Eunice Acid Gas Injection line is located in Lea County, New Mexico. The acid gas line encompasses approximately a 5 mile long corridor of privately owned land. A 100 foot wide easement for line installation has been established. The acid gas injection line is owned by Versado Gas Processors L.L.C. and operated by Targa Midstream Services LLC.

The acid gas injection pipeline is located in the <u>Sections 3, 10, 15, 22 and 27, Township 22</u> <u>South, Range 37 East, Lea County, New Mexico.</u> The acid gas injection well is located 1,200 feet from the west line and 2,580 feet from the south line, Unit L of Section 27, Township 22 south, Range 37 east, NMPM, Lea County, New Mexico.

The location of the plant, AGI pipeline, and AGI well site is illustrated on Figure 1.



3.3 DESCRIPTION OF PLANT OPERATIONS

- The Plant operations include gas processing, conditioning and compression, as well as flow lines and storage tanks. The Plant gathers and processes produced natural gas from Lea County, New Mexico. Once gathered at the Plant, the produced natural gas is compressed; treated in an amine process for the removal of carbon dioxide and hydrogen sulfide; and dehydrated to remove the water content. The processed natural gas and recovered gas liquids are shipped to various customers.
- 2. Because the natural gas that is gathered at the Plant contains hydrogen sulfide, it must be treated or processed to remove these and other impurities. The carbon dioxide and hydrogen sulfide (H₂S) stream that is removed from the natural gas in the amine treating process is compressed up to 50 psi and is sent via a high density 16" polyethylene which is inserted into a 22" poly line (Figure 2). The gas travels from the Eunice Plant through the pipeline to the acid gas injection well. The raw field inlet gas enters the Eunice Plant at a flow rate of approximately 100 mmcfd and flows into the AGI pipeline from the Plant at a volume of up to 5 mmcfd.
- 3. The Plant has installed this acid gas injection (AGI) well to accommodate disposal of the acid gas stream generated by existing operations, therefore permanently shutting down the Sulfur Recovery Unit and its permitted air emissions. The operation generates up to 5 mmcf/d of acid gas for disposal, which consists of approximately 17.5% H₂S and 82% carbon dioxide (obtained from process knowledge of continuous gas analysis and flow measurements). The operations of this wellsite are provided below in Section 3.4 Description of Acid Gas Wellsite Operations.
- 4. Control air activated ESD valves control gas streams from two source points (total of two ESD valves exist for the Eunice plant (see Appendix J). One (1) ESD valve is located on the southwest side of the plant which will shut-off gas from the west. North and east gas lines are both shut-off by one (1) ESD to the southeast of the plant. The shut-off is initiated depending on process conditions. Gas will be routed to the flare to burn any gas thus reducing toxic emissions. These valves can be automatically opened or closed by the Plant Control Room.
- 5. Signs are present at the Eunice Plant which warn of hydrogen sulfide gas stating "poison gas" and complies with current ANSI standard Z535.1-2002 for safety color coding.
- 6. Wind direction indicators known as wind socks are located at the Plant site so that one or more are visible from all principal working areas at all times (Appendix J).

3.4 DESCRIPTION OF ACID GAS WELLSITE OPERATIONS FROM EUNICE PLANT

1. The acid gas stream is received at the well site (located at the South Eunice Compressor Station approximately five miles south of the Plant in Figure 1) where it mixed with water and is further compressed to 1,300 psi for injection or according to OCD order. This is accomplished by using an electric driven, reciprocating compressor.

- 2. This water is transported from the Plant to the AGI compressor site via a poly pipeline which is located in the same ditch directly above the outer 22" AG line.
- 3. Emergency Shutdown Valves are located at the inlet of the Pipeline from the Eunice Plant and another one at the compressor and injection well end and can be remotely operated from the Eunice Plant Control Room in case of emergency (Appendix I). There are also automatic activated valves at the AGI Wellsite to move any gas from the pipeline to a Flare for safe removal in an emergency when the ESD valves are closed.
- 4. The acid gas compressor area is equipped with a fixed H_2S detector system which alarms on site and in the Eunice Plant Control Room which is occupied 24 hours a day.
- 5. The pipeline is unmanned and underground. The ROW has warning signs containing the words "poison gas" and "H2S" to warn the public that a potential danger exists.
- 6. The compressor/injection area is protected from public access with chain link fencing.
- 7. Wind direction indicators known as wind socks are located at the compressor/injection site so that one or more are visible from all principal working areas at all times (Appendix I).
- 8. The pipeline is monitored for a release by the following two methods:
- Hydrogen sulfide detectors measuring gas concentration within the pipeline from the Eunice Plant to the Compressor.
- Pressure changes in the pipeline

The following schematic displays a general version of release detection of the pipeline system:

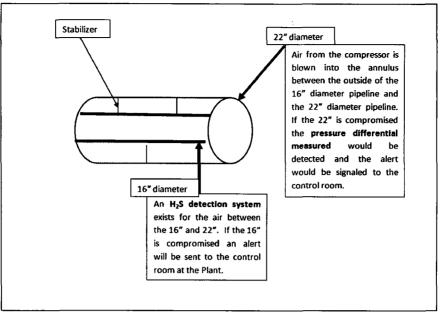


Figure 2: General schematic of pipeline release detection system

- 9. The acid gas is injected into the San Andres Formation at a depth of 4,250 feet to 4,850 feet below the surface per OCD order. The wellbore is constructed with three casing strings, all with cement circulated to the surface. The acid gas well is permitted under Division Order No. R-12809 and Administrative Order SWD-1611.
- 10. The well site has a Subsurface Safety Shut-down Valve located approximately 250 feet below the ground surface and is actuated automatically when pressure is detected below 300 psi or higher than 2,000 psi. This valve shuts off any flow from the AGI wellsite to prevent backflow to the subsurface.
- 11. The wellsite, normally unmanned, is fully automated and controlled by the Eunice Plant. Targa personnel inspect the site daily. A camera is onsite with visual display of the compressor area linked directly to the control room for security and safety purposes. The control room is manned 24 hours per day.

Multiple control points exist to prevent a hazardous release of hydrogen sulfide. Concentrations of hydrogen sulfide and pressures within the system are constantly monitored via hydrogen sulfide detectors and pressure gauges to ensure proper operational conditions and maintain the safety of the welfare of personnel, public, and the environment. All Targa employees and Targa subcontractors are required to have hydrogen sulfide monitors on their person.

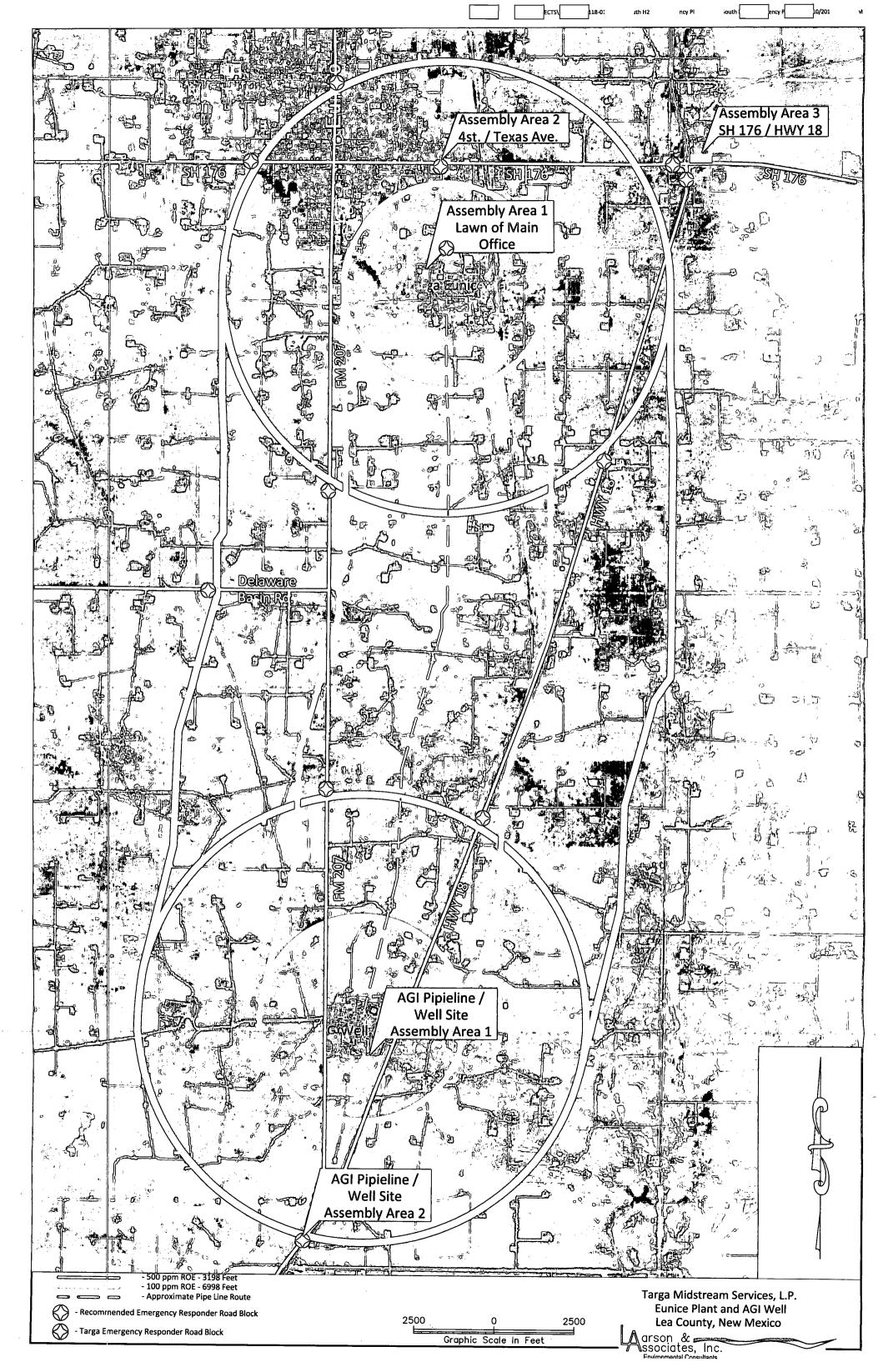
4 RADII OF EXPOSURE (ROE)

For the existing operations, the Radius of Exposure for both 500-ppm and 100-ppm of H_2S gas was determined using the Pasquill-Gifford derived equation, as defined by NMAC, which uses the maximum daily rate of the gaseous mixture into the Plant and into the AGI wellsite:

The gas flow rates and gas chemical analysis used to calculate the ROE is discussed in greater detail in **Appendix C - ROE Calculation including Gas Analysis**.

Eunice Plant, AGI Pipeline, and Wellsite-

500 ppm ROE – public road	 ,	3,198 feet
100 ppm ROE – public area		6,998 feet



5 TRAINING/DRILLS/EDUCATION

5.1 TRAINING

Targa recognizes that the most critical portion of this plan is Emergency Procedures. To ensure the most effective implementation of these procedures, pre-emergency measures shall be completed to attain a state of preparedness. These actions are as follows:

- An annual mock emergency drill is held annually in which Eunice emergency responders are invited as well as the public
- Every employee is to be completely familiar with the contents and location of the contingency plan.
- Surveillance and preventative maintenance to minimize the possibility of an accidental release of gas.
- Training and drills will be conducted as further described below.
- All emergency breathing equipment is maintained and ready for use.
- This Plan is made available to appropriate public response officials and shall be reviewed and discussed thoroughly with the City of Eunice emergency response officials.
- Targa will use brochures, public notices, or other means, as deemed appropriate and practical, to provide training of the public and to alert and educate any persons who reside within the potential areas of exposure. These training brochures are mailed to every PO Box for the City of Eunice annually advising them on the hazards of a pipeline leak, response instructions, and information regarding hydrogen sulfide safety and response.

All training records for the Plant are maintained at the Plant. The following is a limited list and summary of the training programs that relate to the H₂S Plan and Emergency Response:

Plant Orientation Training - All Plant personnel, visitors, and contractors must attend a Plant overview orientation prior to obtaining permission to enter the Plant. A refresher course on this training is required annually for all persons. This training also complies with the requirements of the Targa Safety Standards Manual.

Respirator Training and Mask Fit Testing - All Plant personnel receive annual training for proper selection and operation of respirators per OSHA regulations and standards.

Hydrogen Sulfide and Sulfur Dioxide Training – All Plant personnel receive annual refresher training on hydrogen sulfide and sulfur dioxide, which is conducted by the Targa Training Group. If an individual is unable to attend, they may be required to attend a third party training session. All contract employees and visitors are required to have had hydrogen sulfide training and to provide the Plant a copy of their certification card prior to obtaining permission to enter the Plant.

5.2 CHARACTERISTICS OF H₂S, SO₂ AND CARBON DIOXIDE

5.2.1 Hydrogen Sulfide (H₂S)

Eunice Plant-

The proposed inlet gas streams into the Plant will contain approximately 6,528 ppm (or 0.65 mole percent) of hydrogen sulfide based on data generated from the sampling of the inlet gas on July 20, 2011 (Appendix C). The gas flow rate for the inlet to the plant is 110 mmcfd (based upon process knowledge as measured by total flow instrumentation set at continuous monitoring).

Pipeline to AGI Wellsite and Wellsite-

The acid gas in the pipeline from the Eunice Plant will have a hydrogen sulfide concentration equal to 17.5% and a carbon dioxide content equal to 82%. The hydrogen sulfide flow rate utilized for the Radius of Exposure calculation for the acid gas through the pipeline and well is 175,378 ppm (17.5%). The corresponding flow rate is equal to 5 mmcfd (based upon process knowledge as measured by total flow instrumentation with continuous monitoring) see Appendix C for gas analysis documentation.

Hydrogen sulfide is a colorless, toxic and flammable gas, and has the odor of rotten eggs. Hydrogen sulfide gas is heavier than air. Hydrogen sulfide presents a significant health hazard by paralyzing the respiratory system resulting in serious injury or death:

Hydrogen Sulfide Properties & Characteristics	
CAS No.	7783-06-4
Molecular Formula	H₂S
Molecular Weight	34.082
TWA	10 ppm
STEL	15 ppm
IDLH	100 ppm
Specific Gravity (air = 1.0)	1.189
Boiling Point	-76.5°F
Freezing Point	-121.8°F
Vapor Pressure	396 psia
Auto Ignition Temperature	518°F
Lower Flammability Limit	4.3%
Upper Flammability Limit	46.0%

Stability	Stable
pH in Water	3
Corrosivity	Reacts with metal, plastics, tissues & nerves

	Physical Effects of Hydrogen Sulfide		
Concentration		Physical Effect	
ppm	%		
1	.00010	Can be smelled (rotten egg odor)	
10	0.0010	Obvious & unpleasant odor; Permissible Exposure Limit; Safe for 8-hour exposure	
15	0.0015	Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure without respirator	
50	0.0050	Loss of sense of smell in 15 minutes	
100	0.0100	Immediately Dangerous to Life & Health (IDLH); Loss of sense of smell in 3-15 minutes; Stinging in eyes & throat; Altered breathing	
200	0.0200	Kills smell rapidly; Stinging in eyes & throat	
500	0.0500	Dizziness; Unconscious after short exposure; Need artificial respiration	
700	0.0700	Unconscious quickly; death will result if not rescued promptly	
1,000	0.1000	Instant unconsciousness; followed by death within minutes	

5.2.2 Sulfur Dioxide (SO₂)

Sulfur dioxide is produced as a by-product of H_2S combustion. The waste gas stream consisting of hydrogen sulfide and carbon dioxide is routed to the plant acid gas flare during abnormal conditions when the acid gas injection equipment is out of service. Waste gas is routed to the acid gas flare during maintenance operations.

It is colorless, transparent, and is non-flammable, with a pungent odor associated with burning sulfur.

Sulfur dioxide is heavier than air, but will be picked up by a breeze and carried downwind at elevated temperatures. Sulfur dioxide can be extremely irritating to the eyes and mucous membranes of the upper respiratory tract.

Sulfur Dioxide Properties & Characteristics	
CAS No.	7446-09-5
Molecular Formula	SO ₂
Molecular Weight	64.07
TWA	2 ppm
STEL	5 ppm
IDLH	100 ppm
Specific Gravity (air = 1.0)	2.26
Boiling Point	14°F
Freezing Point	-103.9°F
Vapor Pressure	49.1 psia
Auto Ignition Temperature	N/A
Lower Flammability Limit	N/A
Upper Flammability Limit	N/A
Stability	Stable
Corrosivity	Could form an acid rain in aqueous solutions

Physical Effects of Sulfur Dioxide		
Concentration	ncentration Effect	
1 ppm	Pungent odor, may cause respiratory changes	
2 ppm	Permissible exposure limit; Safe for an 8 hour exposure	
3-5 ppm	Pungent odor; normally a person can detect sulfur dioxide in this range	
5 ppm	Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure	
12 ppm	Throat irritation, coughing, chest constriction, eyes tear and burn	
100 ppm	Immediately Dangerous To Life & Health (IDLH)	
150 ppm	So irritating that it can only be endured for a few minutes	
500 ppm	Causes a sense of suffocation, even with first breath	
1,000 ppm	Death may result unless rescued promptly.	

5.2.3 Carbon Dioxide

The current inlet gas streams to the Plant contain approximately 3.3% carbon dioxide based on an inlet sample collected on July 20, 2011. The acid gas stream to the acid gas injection well contains approximately 82% of carbon dioxide as sample on December 3, 2010.

Carbon dioxide gas is colorless, odorless, and non-flammable. Carbon dioxide is heavier than air.

Carbon Dioxide Properties & Characteristics	
CAS No.	124-38-9
Molecular Formula	CO ₂
Molecular Weight	44.010
TWA	5,000 ppm
STEL	30,000 ppm
IDLH	40,000 ppm
Specific Gravity (air = 1.0)	1.5197
Boiling Point	-109.12°F
Freezing Point	-69.81°F
Vapor Pressure	830 psia
Auto Ignition Temperature	N/A
Lower Flammability Limit	N/A
Upper Flammability Limit	N/A
Stability	Stable
pH in saturated solution	3.7
Corrosivity	dry gas is relatively inert & not corrosive; can be corrosive to mild steels in aqueous solutions

	Physical Effects of Carbon Dioxide	
Concentration	Concentration	Effect
1.0 %	10,000 ppm	Breathing rate increases slightly
2.0 %	20,000 ppm	Breathing rate increases to 50% above
		normal level. Prolonged exposure can
		cause headache, tiredness
3.0 %	30,000 ppm	Breathing rate increases to twice normal
		rate and becomes labored. Weak narcotic
		effect. Impaired hearing, headache,
		increased blood pressure and pulse rate
4 – 5 %	40,000 - 50,000	Breathing increases to approximately four
	ppm	times normal rate, symptoms of
		intoxication become evident, and slight
		choking may be felt
5 – 10 %	50,000 - 100,000	Characteristic sharp odor noticeable. Very
		labored breathing, headache, visual
		impairment, and ringing in the ears.
		Judgment may be impaired, followed
		within minutes by loss of consciousness
10 – 100 %	100,000 –	Unconsciousness occurs more rapidly
	1,000,000 ppm	above 10% level. Prolonged exposure to
		high concentrations may eventually result
		in death from asphyxiation

Fire Extinguishers - All Plant personnel are trained annually on fire extinguisher selection and use.

Hazard Communication - All Plant personnel are trained annually on Hazard Communication and SARA Title III Right-to-Know information. The annual training includes, at a minimum, a review of material safety data sheets (MSDS) for those materials that are present at the Plant and labeling.

Personal Protective Equipment (PPE) - All Plant personnel are trained annually on the Targa requirements for personal protective equipment (PPE). The training includes, at a minimum, a review of all the types and levels of personal protective equipment and how to select the correct equipment for the job. Each Targa employee and subcontractor must have proper PPE which is provided; emergency safety equipment is located at the Plant and AGI Wellsite.

5.3 RESPONSIBILITY FOR CONFORMANCE WITH THE H₂S PLAN

It is the responsibility of all personnel on-site to follow the safety and emergency procedures outlined in the Hydrogen Sulfide Contingency Plan (the H_2S Plan) as well as the following documents:

- Targa Midstream Safety & Health Manual;
- Targa Midstream Eunice Plant Emergency Response, Groundwater Discharge Plan and Oil Spill Contingency Plan; and
- Targa Midstream Environmental Policies and Programs.

5.4 REVISIONS TO THE PLAN

The H_2S Plan will be reviewed annually and revised as necessary to address changes to the Plant facilities, operations, or training requirements, contact information and the public areas including roads, businesses, or residents potentially affected by the operations of the Plant, specifically those areas within the radii-of-exposure. If any revisions are made to the plan redistribute the revised plan per Appendix B.

5.5 AVALABILITY OF THE H₂S PLAN

The H_2S Plan shall be available to all personnel responsible for implementation, regardless of their normal location assignment. A copy of the Plan will be maintained at the Plant in the Area Manager's office, control room, all Plant Supervisors, and at the AGI wellsite (MCC Building). See Appendix B for the H_2S Distribution List, which lists all the additional entities that have been provided a copy of the H_2S Plan.

5.6 CONTENT OF THE PLAN

At a minimum, the H₂S Plan will contain information regarding:

- 1. The emergency procedures to be followed in the event of an H₂S or SO₂ release that may pose a threat to the Plant, Pipeline, AGI compressor site, public or public areas, and public roads;
- 2. The characteristics of H₂S and SO₂;
- 3. A facility description, map and/or drawings; and
- 4. Information regarding training and drills to be conducted related to this Plan.

5.7 EMERGENCY RESPONSE ORGANIZATION

The Plant uses the Incident Command System (ICS) for emergency response. The ICS structure used is based on the National Interagency Incident Management System (NIIMS), and is consistent with the National Contingency Plan (NCP).

In the event of an accidental release that results in the activation of the H_2S Plan and all personnel have been evacuated out of the affected area, the Area Manager, or his designee, will be the On-Scene Incident Commander (IC in this Plan). Upon notification of an emergency the Area Manager or his relief will serve as the Field Incident Commander (FIC). Under certain

conditions, the New Mexico State Police responding to the emergency may elect to assume the position of FIC or they may establish a Unified Command of which the Targa Area Manager may be a key member. The responsibility of the FIC is to ensure control of the emergency incident. The IC will contact and coordinate with Targa's management in corporate office.

The Area Manager or his designee shall determine:

- 1. Plant Shutdowns;
- 2. Isolation of pipeline segments; and
- 3. Repairs, tests or restarts as required.

If an emergency occurs, the Area Manager, or his designee, shall be notified first. The Area Manager, or his designee, shall notify Targa's Office in Midland, Texas. If any person in this chain of command is unavailable, the Targa employee shall elevate the communication to the next level (Appendix H).

5.8 EMERGENCY RESPONSE

This section explains the procedures and decision to be used in the event of an H_2S release; much of which has been pre-determined to ensure a coordinated, efficient and immediate action Plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property.

5.8.1 Objective

All Area employees shall be prepared to respond to an H_2S or SO_2 emergency at the Plant, AGI Pipeline, and AGI Wellsite. Emergency response actions may be taken for a variety of situations that may occur. The Plan is activated in based on the concentration of H_2S that has been released. The hydrogen sulfide concentration of 10 ppm or greater alerts any Targa employee via their personal monitor as well as Plant or AGI Well site H_2S fixed monitors/detectors. Ten ppm or greater activates the Plan Level 1 response and the situation is assessed immediately by the hydrogen sulfide concentration reported to the control room.

- Plant, AGI Pipeline, and AGI Wellsite Emergency alarm sounded and/or Light Beacons are activated for H₂S at 10 ppm or greater,
- Plan activation in 100 ppm in any public area, or
- Plan activation in 500 ppm at any public road, or
- Plan activation when a 100 ppm concentration of H2S exceeds 3,000 feet from the site of the release.

Definitions:

19.15.11.7.I NMAC "Public area" means a building or structure that is not associated with the well, facility or operation for which the radius of exposure is being calculated and that is used as a dwelling, office, place of business, church, school, hospital or government building, or a

portion of a park, city, town, village or designated school bus stop or other similar area where members of the public may reasonably be expected to be present.

19.15.11.7.I NMAC "Public road" means a federal, state, municipal or county road or highway.

As soon as the Plan has been activated based on the criteria above, the Area Manager, or his designee, shall be notified. In the absence of the Area Manager or his relief the Targa employee (first responder) at the site shall assume the role of Incident Commander. It is the responsibility of the Incident Commander to ensure control of the emergency response management system and if necessary to coordinate these efforts with any state or local emergency plans.

5.8.2 Response Levels

There are two response levels for the Plant, one for the Pipeline, and two for the AGI Well site described in the Flow Diagrams provided at the beginning of the Plan (Section 1). First and foremost any individual encountering a situation where their personal hydrogen sulfide alarm is sounding or hears the Plant Siren or sees the Light Beacon must evacuate the affected area immediately. The individual must move crosswind, upwind, and out of low lying areas to safety per evacuation route arrows shown on Appendix I and J. Once safety is ensured the Levels 1 and 2 discussed in the Flow Diagrams (section 1) should be followed which entail alerting the supervisor of your current situation and whereabouts and pertinent information regarding the release area. This allows the supervisor to account for you and the other individuals whom are evacuating and assembling to Assembly Area 1 (Appendix F).

In summary, the Levels provide for immediate action to be taken in an organized fashion in the event of a release of H_2S at a harmful concentration and are conducted to mitigate negative impact to the welfare of individuals and the environment.

5.8.3 Evacuation and Emergency Assembly Areas

Evacuation to the assembly point, Assembly Area 1 (Appendix F), by Plant personnel, subcontractors, and any visitors begins when the emergency alarm is activated. IC determines if any rescue is needed and directs emergency responders to don 30-minute SCBA and respond.

Emergency services (911) will be contacted if there are injuries or as otherwise deemed necessary. The operators will then, wearing the 30-minute SCBA, investigate the cause of the release as deemed by IC. At the sound of the alarm and/or light beacon, all other personnel in the Plant are to stop work, check the prevailing wind direction and immediately proceed along designated evacuation routes and/or upwind to the pre-designated Emergency Assembly Area 1 (Main Office Building Lawn) as shown in Appendix F. Incident commander will then determine if the situation necessitates Plant personnel moving to Assembly Area 2 and Assembly Area 3 and establish their respective roadblocks (Appendix F).

The AGI Pipeline and AGI wellsite are considered unmanned. The AGI wellsite is inspected daily by personnel and as such anyone in the vicinity of the wellsite has a personal hydrogen sulfide monitor and will be alerted by the hydrogen sulfide beacon and horn from the six (6) hydrogen sulfide detectors on-site. The individual should evacuate immediately crosswind, or upwind and out of any low lying areas to safety to the designated Assembly Areas and establish their respective roadblocks (Appendix F). Thirty-minute SCBA units, as shown in Appendix I, are present at the well site if needed for escape. The control room at the Eunice Plant is immediately notified of the release and initiates the Level 1 Response. Report to the operations control room to be accounted for from the mandatory check-in list and provide necessary site information by phone or radio. A video camera is also at the AGI wellsite which is monitored 24 hours per day for security and safety. The individual at the AGI wellsite should proceed to the designated assembly area (Appendix F) and check-in. If no report to check-in occurs from the individual, the Incident Commander initiates rescue to the well site by gualified emergency responders outfitted in proper PPE to include the 30-minute SCBA.

EUNICE PLANT - Emergency Assembly Area 1 -Lawn of Main Office of the Eunice Plant-(Appendix F)

EUNICE PLANT – Emergency Assembly Area 2 4th St./Texas Ave (Appendix F)

EUNICE PLANT – Emergency Assembly Area 3 -State HWY 176 & State HWY 18 (Appendix F)

AGI PIPELINE (unmanned) – AGI Pipeline/Wellsite Emergency Assembly Area 1 South Gate of AGI Wellsite (Appendix F)

AGI PIPELINE (unmanned) – AGI Pipeline/Wellsite Emergency Assembly Area 2 South of 207 & HWY 18 intersection (Appendix F)

AGI Wellsite (unmanned) – AGI Pipeline/Wellsite Emergency Assembly Area 1 South Gate of AGI Wellsite (Appendix F)

AGI Wellsite (unmanned) – AGI Pipeline/Wellsite Emergency Assembly Area 2 South of 207 & HWY 18 intersection

(Appendix F)

Roll call shall be conducted at the Emergency Assembly Area to assure all personnel have evacuated safely. This facility requires everyone to check in before entering the Plant or to the AGI Wellsite; thus, the check-in sheet will be used at the Emergency Assembly Areas to make a full accounting of all personnel and contractors. Targa employees not at the Plant at the AGI wellsite or enroute to the location will radio or phone in to operations as they will be evacuating the site in a crosswind and upwind direction out of low-lying areas going to the Assembly Areas (Appendix F). No one is allowed to enter the Targa Plant, AGI Pipeline, or AGI Well site areas without Targa approval to ensure the safety of the individual.

5.9 EMERGENCY RESPONSE DRILLS

The Plant will conduct, at least, a tabletop drill annually. Multiple drills during the year may be scheduled at the discretion of the Area Manager or as part of the Emergency Response Agencies. Emergency Drills will consist of the following:

The annual drill will exercise this Plan. All Eunice residents are notified annually via a mail-out advising them on the hazards of a pipeline leak and response instructions. The mail-out will contain information regarding hydrogen sulfide safety and response and proper protective measures to be taken in the event of a release. The drills will also include briefing of public officials on issues such as evacuation or shelter-in-place plans.

Drill training will be documented and those records will be maintained at the Plant. The documentation shall include at a minimum the following:

- Description or scope of the drill, including date and time;
- Attendees and Participant to the drill;
- Summary of activities and responses; and
- Post drill de-brief and reviews.

A. <u>Request Assistance if Needed</u>

Any employee who finds himself in an emergency situation involving the escape of hydrogen sulfide gas that would pose a hazard to the public shall notify the Area Manager, or his designated alternate, by the fastest means. The employee will advise the Area Manager, or alternate, of the location and nature of the emergency and the assistance needed. He will also state the actions taken and those he will be taking while waiting for assistance. The recommended sequence of actions is: move away from source, don PPE, alert others, assist the distressed, evacuate, and account for personnel. The Area Manager is directly responsible for

requesting the assistance needed. He will also proceed with the appropriate notifications. Please refer to Appendix G and H of this Plan for a list of emergency telephone numbers.

B. Stop the Escape of Hydrogen Sulfide

Activating the ESD valves to stop the escape of hydrogen sulfide is of the utmost importance.

C. <u>Alert the Public and Evacuate Those Within the Exposure Area</u>

Incident Command will direct the alerting of all persons who are within the exposure area. See Appendix A for phone contact list for locations in the 500 ppm Radius of Exposure (ROE) and alert the public that maybe effected that are located in the 100 ppm ROE either directly or through appropriate government agencies by calling 911. See figure 1 and 3 for the 100 ppm locations. Eunice emergency responders will initiate mass notification and reactionary measures to alert the public. Refer to the map and list of ROEs in Appendix D and E. In the event a leak causes a potentially hazardous concentration public, notification must be made immediately by the employee who discovers (or arrives first at the leak site) and judges the situation serious enough to require immediate evacuation (10 ppm or greater). This is achieved by alerting control room at the Plant which initiates Incident Command and the Level Responses (beginning on Section 1). The recommended sequence of actions is: move away from source, don PPE, alert others, assist the distressed, evacuate, and account for personnel.

If evacuation is deemed prudent, advise persons and/or assist them to leave the area without delay by the fastest, safest route out of the exposure area. In populated areas such as the City of Eunice, evacuations will be conducted by city officials with the aid of Targa employees, if requested. The City of Eunice emergency responders are provided with the hydrogen sulfide safety plan. They will utilize the Plan to assist in their response: the Radius of Exposure is provided as well as assembly areas are provided to assist in emergency response evacuations.

REFER TO FLOW DIAGRAMS FOR LEVEL RESPONSES (Section 1)

- First, evacuation should occur at the hydrogen sulfide release area crosswind or upwind and out of low-lying areas with subsequent evacuation to the Assembly Area 1 for the Plant. Migration to Assembly Area 2 and 3 and their associated roadblocks will be initiated if the Level Response warrants (Appendix F). Next, evacuate those within the potential exposure area, giving priority to the downwind position as the Level Response dictates.
- Any individuals at the AGI Wellsite or in the vicinity of the AGI Pipeline should evacuate crosswind or upwind and out of low lying areas to Assembly Areas 1 or 2 and establish the associated roadblocks (Appendix F). The individual would phone in or radio in their situation. Proceeding to the Plant Assembly Areas is not recommended as the Assembly Areas for the Plant would be in the upwind direction. The safety of the individual is of the utmost importance and priority should be with evacuating the site first and then making contact with the

supervisor of Incident Command response to include initiating "Level Responses".

- Monitor ambient hydrogen sulfide concentrations at Assembly Areas, roadblocks. If 10 ppm or greater move to next Assembly Area.
- Always wear a 30-minute SCBA in any escape situation.

D. Contact the Area Manager

The Targa employee (first responder) responding to or receiving notification of an emergency situation shall immediately evacuate and alert supervisor/operations of situation and current status of gas release and follow instructions for response.

E. <u>Cordon off the Exposure Area to Prevent Entry and/or Make Roadblocks and</u> <u>Evacuation Recommendations</u>

Place roadblocks outside the area of exposure on all routes to prevent entry into the area. The Targa Eunice Plant will be road blocked at the cattle guard to prevent entry as the condition warrants based on the response level. Recommended roadblock locations for Targa and law enforcement personnel to prevent entry as provided in Appendix F. The persons manning the roadblocks must be equipped with a supplied air protective breathing apparatus, hydrogen sulfide measuring devices, and two-way radios or cell phones. This equipment is contained in the Field Operator vehicles. Roadblocks should be placed a safe distance away from the potential exposure area and should be monitored for Hydrogen Sulfide to ensure none is present. Roadblocks can consist of a vehicle blocking the path with hazard signals, emergency responders motioning to stop, orange cones, emergency tape, or any other equipment device which blockades the area in a manner sufficient of notifying an individual to not pass.

Based on all information available and the calculated potential exposure information listed in Appendix C, D, and E, public officials are notified of the strategic placing of barricades, for evacuating the public. Priority should be given to those areas in the 500 ppm radius of exposure, then the 100 ppm radius of exposure, with consideration given to the wind direction. See figure 1 and 3 for the 100 ppm locations. Proper caution should be used for shifting changes in wind direction.

F. Complete Notifications as Required

Incident Commander will initiate notification of Affected Residents, Emergency Responders, Targa Management, and Government Agencies (Appendix A, G, and H) and residents in 100 ppm ROE figure 1 and 3.

The IC their designee shall contact OCD no later than 4 hours after plan activation (the first detection of 10 ppm or greater) at the Plant, AGI Pipeline, and/or the AGI Well site. The Eunice Area Manager or his designee shall submit a full report of the incident to the division on form C-141 (Appendix K) no later than 15 days following the release.

G. Monitor for Safe Re-entry

As soon as the complete and permanent stoppage of the release is confirmed by verification that the fixed monitors and alarms have ceased alerting/sounding at the

release site, begin monitoring evacuated areas for hydrogen sulfide and combustible gas concentrations of less than 10 ppm (with multimeter). Allow time for residual H2S to leave the area. Monitor wind direction. Monitor safely (having a 30-minute SCBA if situation dictates) the ambient air in the area of exposure only after following abatement measures, to determine when it is safe for re-entry. Re-entry is established when hydrogen sulfide concentrations are below 10 ppm and are confirmed to remain at this level without fluctuation to a level above 10 ppm. This is denoted by multimeter measurements and no alarms going off which would indicate a 10 ppm concentration.

H. <u>Return of the Situation to Normal</u>

No re-entry will be allowed until ambient conditions have been assessed and verified that levels are less than 10 ppm. Communications for re-entry should be coordinated through the Area Manager assuming the role of Field Incident Commander (FIC). When total absence of hydrogen sulfide and combustible gas is confirmed throughout the evacuated area, notify the sheriff's office so that they may be informed of the situation. Advise all parties previously notified that the emergency has ended.

5.9.1 Emergency Shut-down

The Plant, acid gas pipeline and acid gas well have extensive Emergency Shut Down (ESD) designed to isolate gas and AGI fluid streams, and systems will be depressurized by routing gas to flares. These systems can be automatically initiated by plant operator in the control room or by remote ESD stations located in the plant and AGI well site. These stations are shown on Appendix I and Appendix J to show ESD valve locations.

5.9.2 Post-Emergency Actions

In the event this plan is activated, the following post-emergency actions shall be taken in an effort to reduce the possibility of a recurrence of the type of problem that required its activation and to assure that any future activation will be as effective as possible:

- Clean up, recharge, restock, repair, and replace emergency equipment, as necessary, and return it to its original location.
- Critique all actions and procedures, providing additional training to employees if need is indicated. Modify contingency plan as provided in the NMAC rulings if there is any change in plant operations which require a new ROE to be established or if the Plan is modified in any way. The plan will be redistributed to those persons/entities provided in the "Distribution List" of Appendix B.
- Review the cause of the emergency and modify operating maintenance and other surveillance procedures, if needed.
- Ensure all agency notifications have been completed and follow-up with any written notification requirements.

• Ensure all previously notified or evacuated persons have been advised that the emergency situation has ended.

Notification and Reports

The Plant has various notification and reporting obligations. Some are related to its state air quality permit that is overseen by New Mexico Environmental Department (NMED) as well as well as state and federal spill reporting obligations. In addition to the regulatory obligations noted above, Plant personnel also have internal and external notification and reporting obligations associated with the activation of this Plan.

The New Mexico Oil Conservation Division (NMOCD) will be notified as soon as possible but no later than 4 hours following a release of H_2S requiring activation of this Plan. This shall be followed up with a full report of the incident using the NMOCD's C-141 form, no later than 15 days following the release (Appendix K).

Affected residents will be notified via the phone contact list in Appendix A for locations in the 500 ppm Radius of Exposure (ROE) and alert the public that maybe effected that are located in the 100 ppm ROE either directly or through appropriate government agencies by calling 911. See figure 1 and 3 for the 100 ppm locations. See figure 1 and 3 for the 100 ppm locations. Eunice emergency responders will initiate mass notification and reactionary measures to alert the public.

Once the Area Manager is contacted, he or his designee is to notify the appropriate corporate management, EHS personnel, Plant emergency response personnel, and advise them of the existing emergency situation. Incident Command or designee will then conduct required reporting based on the situation (Appendix A, G, H and figure 1 and 3 for the 100 ppm locations).

6 PUBLIC AWARENESS AND COMMUNICATION

Public awareness and communication is a primary function of the H_2S Plan. The Company has compiled a list of various public, private, state and local contacts that are to be notified at various phases during the activation of the Plan. Refer to the lists in Appendix A, G, and H. The Level Responses indicate when certain entities are to be contacted in event of activation of this Plan.

6.1 MEDIA

At no time shall any representative from the media be allowed any closer to the Plant, acid gas pipeline, or acid gas well than the designated safe (by monitoring) Assembly Areas 2 or 3.

If possible assemble all Media in a group in a safe area away from the emergency so Corporate Communications (Houston) can issue a statement.

All media inquiries should be directed to Corporate Communications in Houston. The FIC or his designee will provide Corporate Communications with periodic updates and will take their direction with regard to any onsite communication with the media.

6.2 PUBLIC AREAS, NEARBY BUSINESSES, AND RESIDENTS

The contact information for local and state agencies and contractors is contained in Appendix G. All entities within the ROE will be contacted with the phone list in Appendix A for locations in the 500 ppm Radius of Exposure (ROE) and alert the public that maybe effected that are located in the 100 ppm ROE either directly or through appropriate government agencies by calling 911. See figure 1 and 3 for the 100 ppm locations. Eunice emergency responders will initiate mass notification and reactionary measures to alert the public.

- The nature and extent of the release/emergency at the Plant, acid gas pipeline or acid gas well and recommendations for protective actions, such as evacuation or shelter-in-place;
- Any other event specific information that is necessary to protect the public; and
- Updates as to the status of the release and continued safety measures to be taken, including but not limited to when to evacuate and/or when it is safe to return to the area. A safe return would be directed by the Incident Commander based on alarms ceasing alerting and on ambient air conditions of less than 10 ppm at release site.

6.3 PUBLIC ROADS

Depending on the level of response, roadblocks will be established pursuant to Section 1 Flow Charts and Appendix F. Public HWY 18 and Loop 207 are within the 500 ppm radius of exposure. Highway 176 is within the 100 ppm. See figure 1 and 3 for the 100 ppm locations. 19.15.11.7.I NMAC "Public road" means a federal, state, municipal or county road or highway.

6.4 BUSINESSES OR OTHER PUBLIC AREAS

Due to the overlapping nature of the radius of exposures for the plant, pipeline and acid gas well, businesses, residents and, public areas will be notified by visit, telephone contact, or in conjunction with local emergency responder mass notification and reaction measures. All entities within the ROE's will be contacted with the phone list in Appendix A for locations in the 500 ppm Radius of Exposure (ROE) and alert the public that maybe effected that are located in the 100 ppm ROE either directly or through appropriate government

agencies by calling 911. See figure 1 and 3 for the 100 ppm locations. Eunice emergency responders will initiate mass notification and reactionary measures to alert the public. 19.15.11.7.I NMAC "Public area" means a building or structure that is not associated with the well, facility or operation for which the radius of exposure is being calculated and that is used as a dwelling, office, place of business, church, school, hospital or government building, or a portion of a park, city, town, village or designated school bus stop or other similar area where members of the public may reasonably be expected to be present.

7 SITE SECURITY

- A. In order to have an accurate listing of all personnel on-site in the event of an emergency, a daily sign-in log sheet shall be utilized. The sign-in log sheet shall include at a minimum the person's name, the company name, the time of arrival, and the time of departure.
- B. The Incident Commander shall be responsible to assure that all personnel sign-in upon arrival and sign-out upon departure from the job site.
- C. The Incident Commander may at his discretion assign the responsibilities for the daily sign-in log sheet to the individual designated as the Record Keeper or another designee.
- D. Signs are located at the Plant and acid gas well gate entrances indicating that all visitors are to sign in at the Plant office.
- E. At the discretion of the Incident Commander, a security coordinator and/or a security team may be established, and the access to the job site restricted.
- F. Road blocks will occur as outlined in the Response Level detail for the Plant, road crossing, pipeline, or acid gas well sites.

7.1 SIGNS & MARKERS

The Plant, acid gas pipeline and acid gas well have numerous warning signs indicating the presence of H_2S /Poisonous Gas and high pressure gas (which comply with ANSI standard Z525.1-2002) at the entrance to the Plant, along the pipeline right away, and acid gas compressor and well site. Emergency response phone numbers are posted at the entrance to the Plant and acid gas well. Acid gas pipeline markers also include the facility emergency phone number.

New Mexico Oil & Gas Conservation Division – Santa Fe, New Mexico New Mexico Oil & Gas Conservation Division – Hobbs, New Mexico New Mexico Department of Public Safety (State Office) New Mexico Department of Homeland Security and Emergency Management Eunice Fire Department Lea County Local Emergency Planning Committee Lea County Emergency Manager Lea County Sherriff Department Eunice Police Lea County Regional Medical Center Eunice Gas Plant Supervisors Targa Eunice Plant Control Room Targa Eunice AGI Wellsite MCC Building Targa Midstream Office (Midland, TX)

Resident Phone Contact List

EMERGENCY CALL LIST

Targa Eunice Gas Plant to AGI Wellsite

Residents within the 500 ppm ROE

(All points referenced from Eunice Middle Plant)

	Name	Location	Phone Number
1	No occupant present	West of Plant	
2	Judy Landes	West of Plant	575-631-56800
3	Steve Brannon	West of Plant	575-394-1766
4	Harry Werner	West of Plant	575-394-3101
5	Desert Oasis RV Park (Robin Peterson)	North West of Plant	575-394-0100
6	Musslewhite Trucking	North of Plant	575-394-4084
7	Warren Hughes	N32° 23.762' W103° 09.038'	575-394-2640
8	No occupant present	Southwest of Plant	No occupant present
9	No occupant present	Southwest of Plant	No occupant present
10	Donny Freudiger	Southwest of Plant	575-631-6997
11	Dorotea Reyna's	N32° 23.287' W103° 09.562'	575-394-2757
12	Anselrno Gayton	N32°23.031' W103° 09.530'	432-631-0707
13	Shena Gayton	N32°23.031' W103° 09.530'	432-631-1059
14	Paula Gayton	N32°23.031' W103° 09.530'	575-263-9058
15	Joe Ruiz	N32°22.866' W103° 09.558'	575-394-3310
16	Greg Skiles	South of Eunice Booster Station	575-631-1663

MOBILE ANALYTICAL LABORATORIES, INC.

P.O. BOX 69210 ODESSA, TEXAS 79769 PHONE (432)337-4744

ANALYSIS REPORT

COMPANY	TARGA RESOURCES	STATION
LEASE/PLANT	EUNICE PLANT ACID GAS	PRESS. PSIG 20
OPERATOR .	TARGA RESOURCES	TEMP. DEG. F 103
CYLINDER .	1023	SAMPLED / RECEIVED 12/03/10
H2S PPM	175378.0	SAMPLED BY SR

FRACTIONAL ANALYSIS

COMPONENT	MOL %	GPM	GPM	
		C2+	C5+	
NITROGEN	0.018	0.000	0.000	
CARBON DIOXIDE	82.047	0.000	0.000	
METHANE	0.338	0.000	0.000	
ETHANE	0.000	0.000	0.000	
PROPANE	0.000	0.000	0.000	
ISO-BUTANE	0.000	0.000	0.000	
N-BUTANE	0.000	0.000	0.000	
ISO-PENTANE	0.000	0.000	0.000	
N-PENTANE	0.000	0.000	0.000	
HEXANES PLUS	0.059	0.026	0.026	
H2S	17.538	0.000	0.000	
TOTALS	100.000	0.026	0.026	
				Б

CALC. SP.GRAVITY 1.465

BTU/CU. F	т. (14	.650	PSIA,	60	DEG.	F)
CALC.	GROSS	WET		117		
CALC.	GROSS	DRY		119		

DISTRIBUTION:

NOTES:

MR. FRANK BRAINARD

REPORT DATE: 12/06/10

9679

LOOP 207 1 MILE N. OF CITY EUNICE NM 88231 505-394-2516

Sample ID:		Sample Ran Date:	7/20/2011
Lease:	M P TOTAL INLET	Effective Date:	8/1/2011
Location:			
ID:	Plant 161 at Eunice, New Mexico		
Sample Type:	Spot		

	Fractional Gas Analysis		
	at 14.65 and 60° F		
Compound	Mol. %	GPM	Sp. Gr.
Carbon Dioxde:	3.2744		0.0498
Nítrogen:	1.5959		0.0154
Hydrogen Sulfide:	0.6528		0.0077
Methane:	74.8631		0.4147
Ethane:	9.7028	2.5791	0.1007
Propane:	5.3157	1.4556	0.0809
Iso-Butane:	0.6851	0.2229	0.0137
N-Butane:	1.8255	0.5724	0.0366
Iso-Pentane:	0.4945	0.1800	0.0123
N-Pentane:	0.5497	0.1980	0.0137
Hexane Plus:	1.0405	0.4254	0.0310
	100.0000	5.6334	0.7766 ,

Specific Gravity	
Field Gravity	0.781
Real, dry:	0.7793
Real, wet:	0.7739
Molecular Weight	22.491
B.T.U./CU. Foot (H2S Free)	
Real - Dry Basis	1,236
Real - Wet Basis	: 1,214
Pentane Plus	
GPM:	0.8034
H2S PPM	6,528
Compressibility Fa	ctor
Z dry:	0.9961
Z wet:	0.9958
Pressure	25 psig.
Temperature	104 F.

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Sampled and Analyzed by: Raul Comments: Notes:

Appendix C

The formulas for calculating the ROEs for the Eunice Plant, the AGI Pipeline , and the AGI Wellsite were calculated in accordance with the rulings as specified by the New Mexico Adminstrative Code, last revised December 2008 of Title 19, Chapter 15, Part 11 of the Pasquill-Gifford Equation:

500-ppm RADIUS OF EXPOSURE CACULATION

(0.6258)

X = [(0.4546)(hydrogen sulfide conc.)(Q)]

100-ppm RADIUS OF EXPOSURE CACULATION

(0.6258) X = [(1.589)(hydrogen sulfide conc.)(Q)]

Where:

X = Radius of exposure in feet

Hydrogen Sulfide Concentration = Decimal equivalent of mole or volume fraction of hydrogen sulfide in the gaseous mixture

- Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)
 - For existing facilities or operations, the escape rate (Q) is the maximum daily rate of the gaseous mixture produced or handled or the best estimate thereof.
 - o Eunice Plant-

The volume used for the ROE calculation is 110 mmcfd as the inlet to the Plant with a hydrogen sulfide concentration of 6,528 ppm:

Using flow rate Q = 110 mmcfd and H_2S concentration = 6,528 ppm

500 ppm ROE – public road

100 ppm ROE – public area

2,822 feet

6,175 feet

o Eunice Plant to AGI Wellsite-

After the installation of the AGI well, the Company is using for contingency planning purposes an "escape rate" equal to the anticipated (maximum) inlet gas volume of 5,000 MCFD. The assumed 5,000 MCFD inlet gas volume has been selected as the "escape rate" because it is the highest anticipated inlet volume that the Plant would handle under its proposed operations and is considered worst case interpretation of the volume of gas. It should be noted that the plan will remain effective as long as the processed volume and H₂S content equate to the same ROE. The hydrogen sulfide concentration used was 17.5 mole percent. Therefore, 175,378 ppm or 17.5 mole percent has been used in the worst case

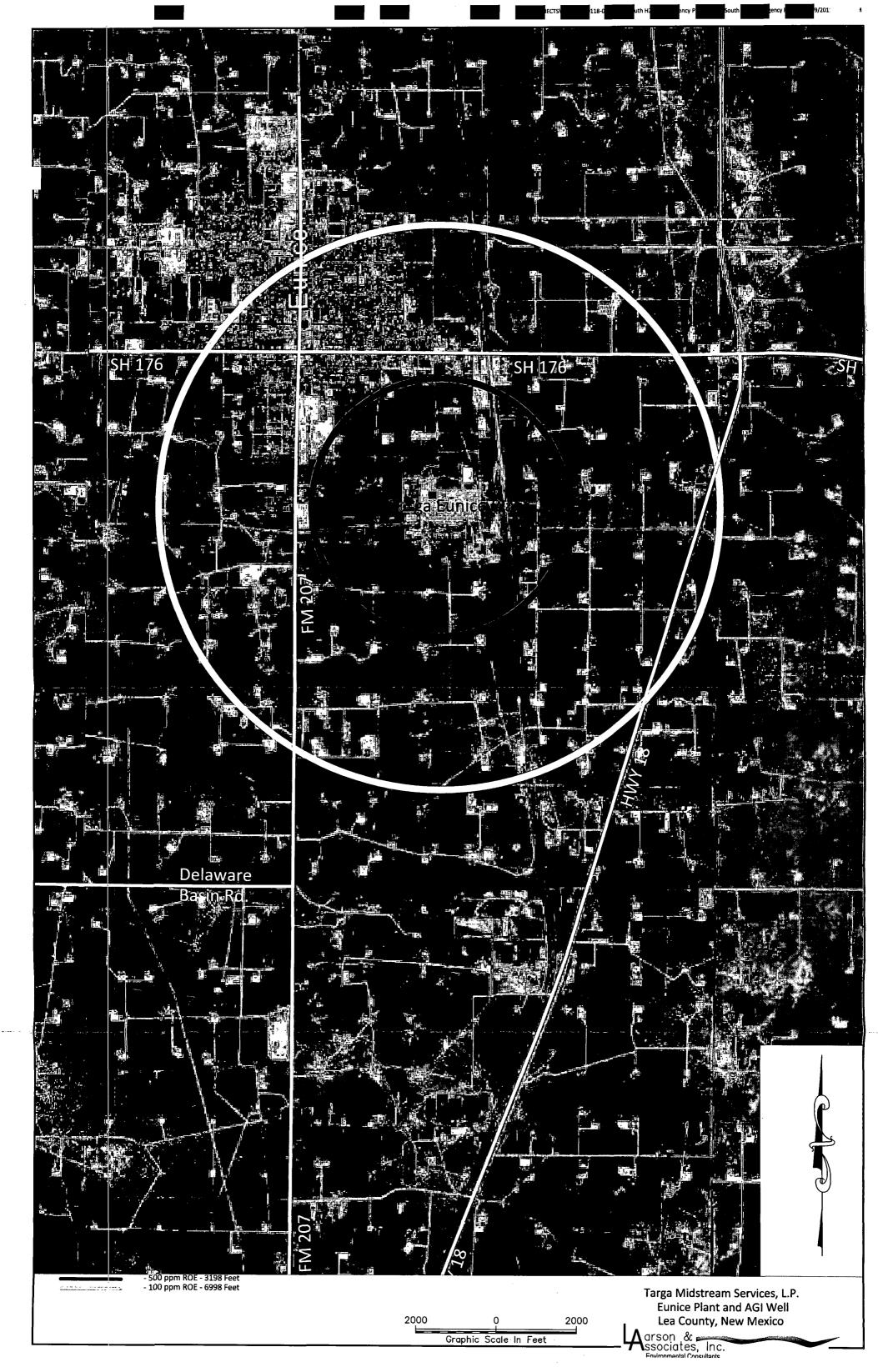
scenario for the expanded operations with the AGI well for contingency planning purposes. Using flow rate Q = 5 mmcfd and H_2S concentration = 175,378 ppm

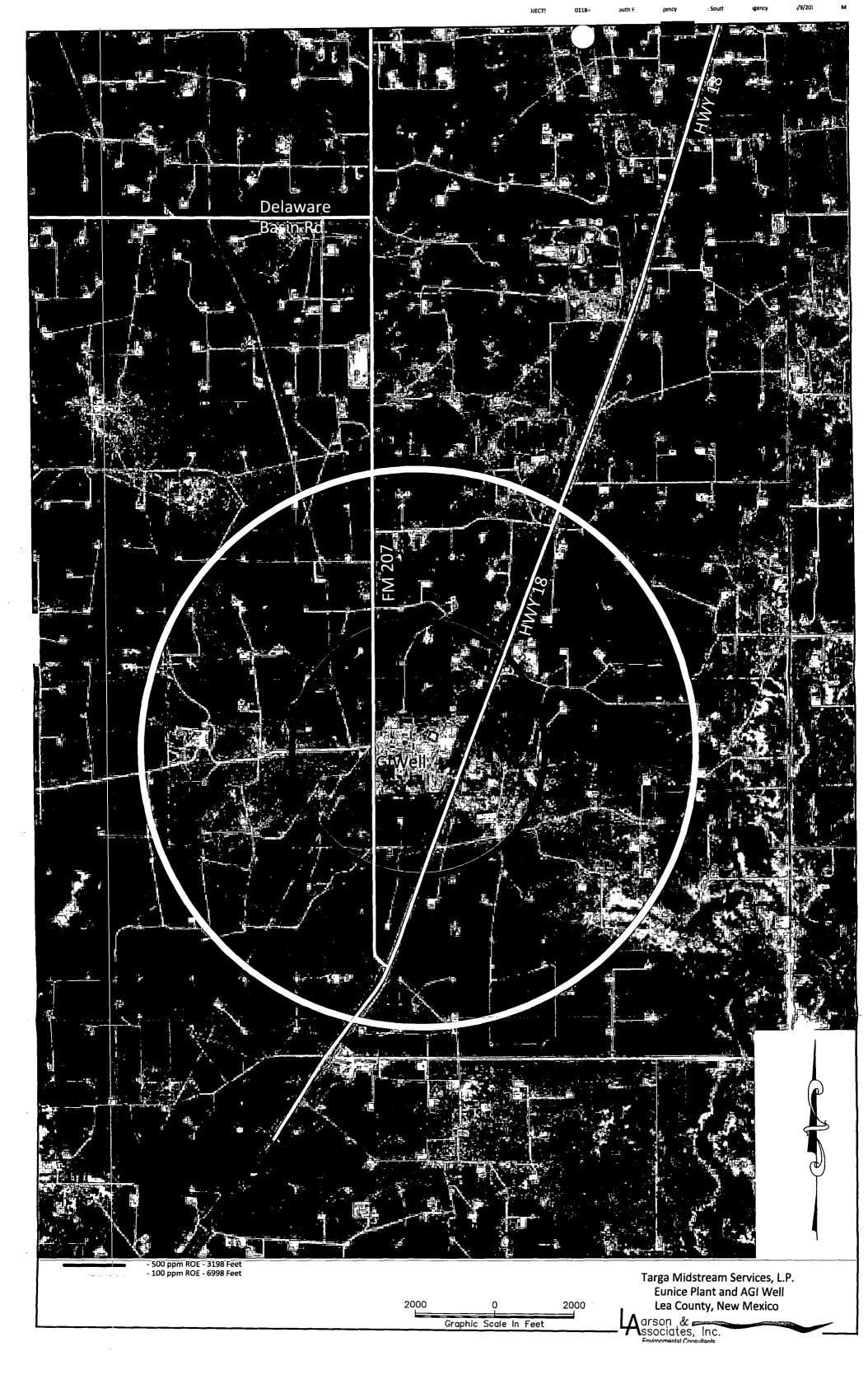
500 ppm ROE – public road

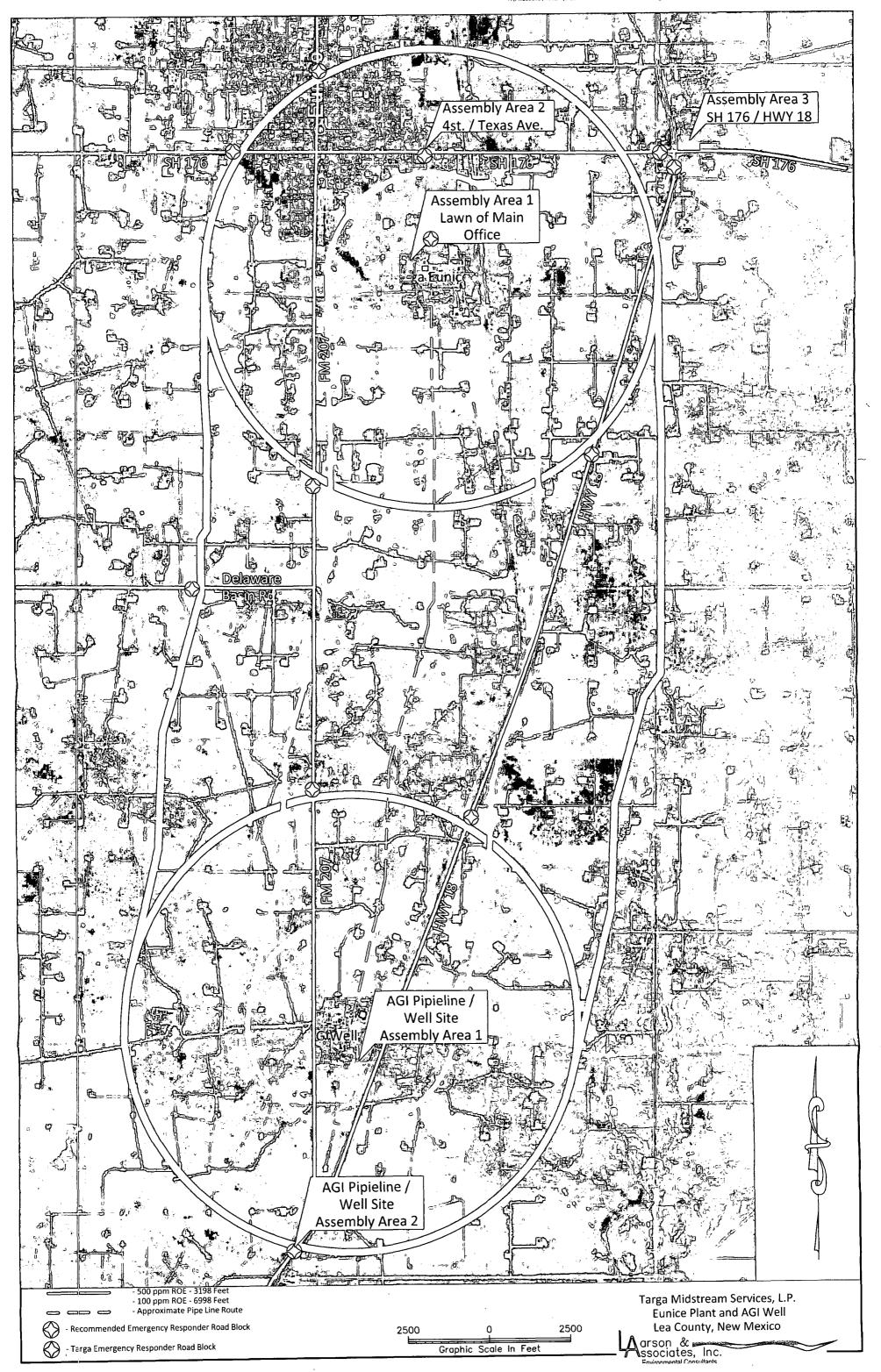
100 ppm ROE – public area

3,198 feet

6,998 feet







LOCAL AGENCIES FOR LEA COUNTY

Eunice – Police	575-394-2112
Eunice – Fire Dept.	575-394-3258
Hobbs - Sheriff	575-396-3611
Hobbs – Police	575-397-9265
Hobbs – Fire Dept.	575-397-9265
Hobbs – Ambulance	575-397-9265
Lovington – Sheriff	575-396-3611
Lovington – Police	575-396-2811
Lovington – Fire Dept	575-396-2359
Lovington - Ambulance	575-396-2811

STATE AGENCIES

Oil Conservation Division, Santa Fe	505-476-3440
Oil Conservation Division – District Office, Hobbs	575-393-6161
Environmental Department – Air Quality Bureau, Santa Fe	505-827-1494

FEDERAL AGENCY

U.S. EPA – Region VI Office, Dallas, TX	800-887-6063
National Response Center	800-424-8202
New Mexico Public Regulation Commission Office	
Of Public Safety (Pipeline Release)	505-476-0253/505-946-8314

CONTRACTOR SUPPORT

ELECTRIC SERVICE COMPANIES

Excel Energy - Customer Service Kay and Company 800-895-4999 24 hour 806-592-3513

WATER SERVICE AND VACUUM TRUCKS

75-394-2545 24 hour
75-398-3490
75-396-4948 24 hour
75-397-4994 24 hour

ROUSTABOUT CREWS

Flint Energy Services – Odessa, TX	432-332-0687 24 hour
Gandy Corporation – Lovington, NM	575-396-4948 24 hour
B & H Construction - Eunice, NM	575-934-2588 24 hour

DIRT WORK EQUIPMENT

B & H Construction – Eunice, NM	575-394-2588 24 hour
EDW Construction – Hobbs, NM	575-391-7814 24 hour
EKB Welding – Monument, NM	575-361-7078 24 hour
Ferguson Construction – Lovington	575-396-3689 24 hour
Gandy Corporation – Lovington, NM	575-396-4948 24 hour

WELDERS

EKB Welding – Monument, NM	575-361-7078 24 hour
Flint Energy Services – Odessa, TX	432-332-0687 24 hour
B & H Construction – Eunice, NM	575-394-2588 24 hour

SAFETY EQUIPMENT

Total Safety Equip. – Hobbs, NM

575-392-2973 24 hour

COMPANY PERSONNEL

Call the following persons in the order listed until one is notified of the emergency:

1. Area Management

Eunice Plant

Bill Little,	Eunice Area Manager	
Office	575-394-2534, ext. 226	Eunice, NM
Mobile	575-602-6005	

Alternate:

Frank Brainard, Eunice Operations Supervisor					
Office	575-394-2534, ext. 229				
Home	none				
Mobile	575-631-0420				

Alternate:

Eunice Field Supervisor
575-394-2516, ext. 327
575-631-1846
75-631-6026

Alternate:

Tim Jordan,	Saunders Plant Area Manager
Office	575-396-3221 Lovington, NM
Home	575-396-0189 Lovington, NM
Mobile	575-631-7091

Alternate:

Todd Young,	Area Manager	
Office	575-393-2823	ext. 234
Home	432-523-3770	Andrews, TX
Mobile	575-441-1645	

2. ES&H Group

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Cal Wrangham, ES&H Manager

Office	432-688-0542	Midland, TX
Home	432-697-6580	Midland, TX
Mobile	432-425-7072	

Rebecca Woodell, ES&H Compliance SpecialistOffice575-394-2534, ext. 239Eunice, NMHome575-394-2280Mobile575-631-7085

Cindy Klein, ES&H Compliance SpecialistOffice575-396-3221, ext. 38Home575-398-6670Mobile575-631-7093

3. Region Manager

Clark White, Permian Basin Region Manager Office 713-584-1525 Houston, TX

4. Field Operators

Eunice Area

 Doyle Mapp
 575-631-7064

 Roger Holland
 575-631-7094

 Robert McBee
 575-631-7061

Call company support personnel in Houston, TX, as needed:

Assistant V-P ES&H	
Jessica Keiser	713-584-1084
Cell Phone	713-263-4537

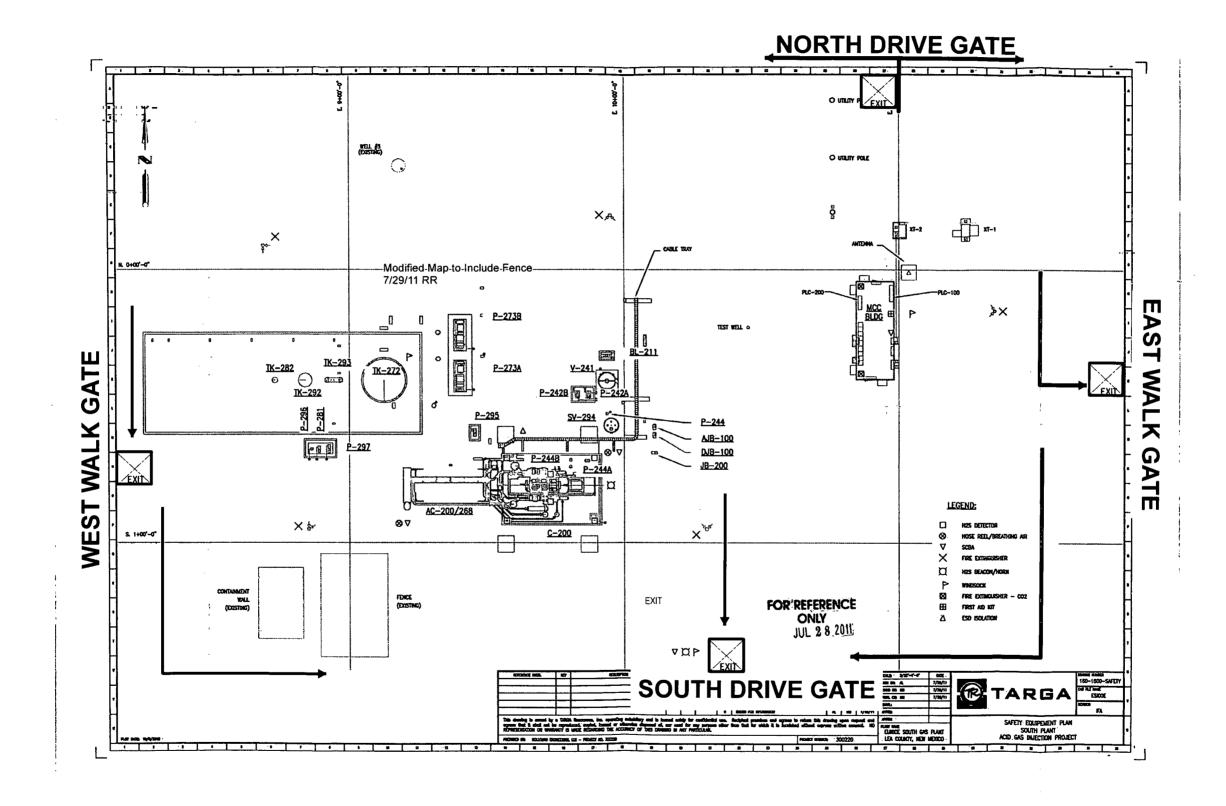
Corporate Security	
Weldon Green	713-584-1301
Cell Phone	281-802-5351

LAW ENFORCEMENT AND EMERGENCY SERVICES

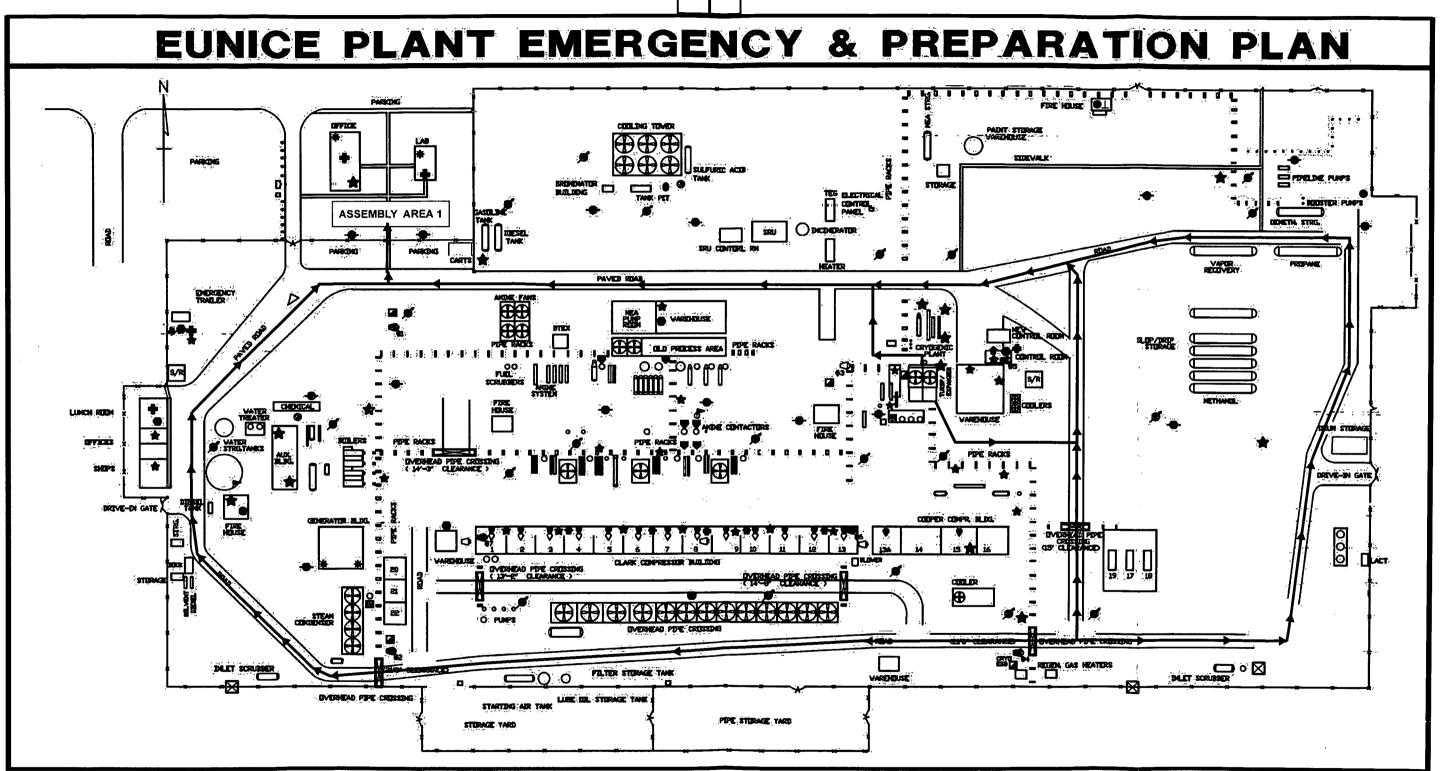
STATE POLICE

New Mexico 575-392-5588

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EVACUATION ROUTES

EMERGENCY EQUIPMENT LEGEND

- TT PRE CONQUENCE ORY CHORCE
- * INE DUNGUSHER 002
- 🗭 WHER WHE PRE EXCHIGUISHERS ORY CHEMICAL
- FPC PUMP
- INDRANT
- FINE MONTER



- 🔶 IFE BLAKET
- O DIDNENCY SUBIS
- DIERGENCY ALARM SHITCH
- FIRE DETECTOR
- Q OIS DETECTOR
- W Has us detector
- P WHO SOCK
- S/R SHOKE ROOM

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- SZIF-CONDANED BREADERS AFFARITUS
- ESD and Manual Block Valve
 - ESD and Manual Block Valve

I.

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State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Fian	icis Di., Sana	a re, inivi 0730.)	Sa	anta Fo	e, NM 875	05		side of form
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Name of Company						Contact			· · · · · · · · ·
Address						Telephone N	lo.		
Facility Na	me		 .			Facility Typ	e		
Surface Ow	ner	<u> </u>		Mineral (Owner			Lease N	lo.
				•		N OF REI	FASE	····	
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County
		-							
			La	titude		Longitud	le		
				NAT	ГURE	OF REL	EASE		
Type of Rele						Volume of			lecovered
Source of Re							lour of Occurrence	e Date and	Hour of Discovery
Was Immedi	iate Notice (Yes [] No 📋 Not R	equired	If YES, To	Whom?		
By Whom?						Date and I	lour	· · · · · · · · · · · · · · · · · · ·	
Was a Water	course Rea					If YES, Vo	lume Impacting	the Watercourse.	
			Yes [] No					
If a Waterco	urse was Im	pacted, Desci	ibe Fully.	*					
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Describe Ca	use of Probl	em and Reme	dial Actio	on Taken.*					
D 11 4	A.CC (1	1.01	A	1 ±					
Describe Are	ea Affected	and Cleanup	Action Ta	ken.*					
L hereby cert	ify that the	information a	iven abov	e is true and com	alete to t	he hest of my	knowledge and u	inderstand that nurs	uant to NMOCD rules and
regulations a	ll operators	are required t	o report a	nd/or file certain	release r	ne best of my notifications a	nd perform correct	tive actions for rel	eases which may endanger
public health	or the envi	ronment. The	acceptan	ce of a C-141 rep	ort by th	e NMOCD m	arked as "Final R	eport" does not reli	eve the operator of liability
									, surface water, human health
		ws and/or reg		ptance of a C-141	report c	loes not reliev	e the operator of	responsibility for c	ompliance with any other
Teueral, state	, or local la	ws and/or reg					OIL CON	SERVATION	DIVISION
S' ·								221(111101)	<u></u>
Signature:									
Printed Name: Approved by District Supervisor:									
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Title:	··· ···					Approval Da	e:	Expiration	Date:
E-mail Addr	ess:					Conditions of	Approval:		Attached 1
									Attached
Date:			Phone		1				1

* Attach Additional Sheets If Necessary

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TRAINING DOCUMENTATION FORM

COUR	SE TITLE		VIDEO		DATE
CLASS	LENGTH (HRS)C	LASS LOCATION	TRAINERS		
		Y			
Grade Pass/Fail	Signature	Print Name	Social Security No. (Last 4 Numbers)	Job Title	Location
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Chavez, Carl J, EMNRD

From:Chavez, Carl J, EMNRDSent:Wednesday, September 07, 2011 6:42 AMTo:Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRDCc:Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD; Jones, William V., EMNRDSubject:RE: Targa 30-025-21497 (GW-344) Targa South Booster

Glenn, et al .:

Re: Targa Acid Gas Injection Well Start-up

EL just clarified that the injection will commence on Thursday, September 8, 2011.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3490 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: <u>http://www.emnrd.state.nm.us/ocd/</u> "Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)

From: Chavez, Carl J, EMNRD
Sent: Wednesday, September 07, 2011 6:09 AM
To: VonGonten, Glenn, EMNRD
Cc: Gonzales, Elidio L, EMNRD
Subject: FW: Targa 30-025-21497 (GW-344) Targa South Booster

FYI. It appears Targa will begin injecting Acid Gas on Wednesday, August 24, 2011.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3490 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: <u>http://www.emnrd.state.nm.us/ocd/</u> "Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: <u>http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental</u>)

From: Herrera, Cindy, EMNRD
Sent: Friday, September 02, 2011 9:08 AM
To: Sanchez, Daniel J., EMNRD; Chavez, Carl J, EMNRD; Griswold, Jim, EMNRD
Cc: Gonzales, Elidio L, EMNRD
Subject: Targa 30-025-21497

For your information. If you have any questions, please feel free to call EL Gonzales. Thanks,



Targa Midstream Services Limited Partnership 6 Desta Drive, Suite 3300 Midland, TX 79705 432.688 0555

www.targaresources.com

Certified Mail: 7010 3090 0001 8450 9696 August 29, 2011 Mr. Elidio Gonzales Hobbs OCD District 1 1625 North French Drive Hobbs, NM 87240 Hobbs NM 87240

RE: Targa Midstream Services LLC Eunice Plant Acid Gas Injection Well Administrative Order SWD-1161, Case No. 14575

Dear Sir:

Per the above mentioned Administrative Order dated February 23, 2009, first paragraph, page 3 of 4, Targa is providing written notice of the date of commencement of injection to the Division's District 1 Office. Targa started the equipment and injected water and acid gas on Wednesday August 24, 2011. That is the date injection commenced. Also commencing that date Targa shall submit monthly reports of the disposal operations on Division form C-115, in accordance with Division Rules 26.13 and 7.24.

If you have any questions, or need additional information, please contact me at <u>cwrangham@targaresources.com</u> or (432)-688-0542.

Sincerely,

Cal Wrangham Targa Resources ES&H Manager

cc: E. Hawkins-Targa Legal Senior Counsel
 B. Little-Eunice Area Manager
 R. Woodell-ES&H Specialist
 J. Keiser-Assistant Vice-President ES&H

Chavez, Carl J, EMNRD

From:	Wrangham, Calvin ฟุ. [CalvinWrangham@targaresources.com]
Sent:	Thursday, March 31, 2011 12:32 PM
To:	Chavez, Carl J, EMNRD; Hudson, Matt
Cc:	VonGonten, Glenn, EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject:	RE: GW-003 and GW-004 H2S CPs

Carl,

Targa is the operator of the Targa Eunice Plant (GW-005), Eunice North Compressor Station (GW-345), and South Eunice Compressor Station (GW-344). As you stated below these facilities are covered in an already submitted H2S CP.

The original GW Discharge plans for North CS (GW-004) and South CS (GW-003) were retained by Chevron to cover the environmental projects occurring at those two sites. New DP numbers were issued to Targa for the current operations, North CS (GW-345 and for South CS GW-344).

As stated above the current operations at these facilities concerning H2S CP are covered by Targa's Plan referring to GW-005, GW-344 and 345.

Targa is in the process of adding a acid gas injection well at the Monument Plant (GW-025) and are in the process of renewing the H2S CP for that facility to cover the existing and new processes. The Buckeye Compressor Station (GW-029) is part of the Monument Plant gathering system so that facility will be included in the Monument H2S CP.

Targa also operates The Saunders Plant (GW-026) and are in the process of renewing the H2S CP for that facility. The Vada Compressor Station (GW-027) is part of the Saunders Plant gathering system so that facility will be included in the Saunders H2S CP.

Hope this helps clarify the plans and facilities covered.

Thanks, Cal.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, March 31, 2011 12:08 PM
To: Hudson, Matt
Cc: Wrangham, Calvin W.; VonGonten, Glenn, EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject: GW-003 and GW-004 H2S CPs

Matt:

Good morning. Subsequent to our meeting with Chevron USA, Inc. (Chevron) this morning regarding the above subject facilities, please find attached the letters that were mailed to you, but as you indicated, Chevron deals with just the environmental aspects of the facilities and Targa is the operator who would be responsible for any H2S CP. In addition, as we discussed, Targa has already submitted an H2S CP for the GW-005 Middle GP, which will cover all of the above subject facilities including possibly GWs-29 344 of Targa.

Please respond to this e-mail with any clarifications of Chevron's involvement with the H2S CP aspects at the facilities mentioned above. Please contact me if you have questions. Thank you.

Xc: OCD Online "GWs 3, 4, 29 and 344" at "H2S Contingency Plan" Thumbnail

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3490 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: <u>http://www.emnrd.state.nm.us/ocd/index.htm</u> "Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)

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Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Thursday, March 31, 2011 11:08 AM
То:	'Hudson, Matt'
Cc:	'Wrangham, Calvin W.'; VonGonten, Glenn, EMNRD; Lowe, Leonard, EMNRD; Griswold, Jim, EMNRD
Subject:	GW-003 and GW-004 H2S CPs
Attachments:	Chevron USA Final Mailed Letters 3-1-2011CJC.pdf

Matt:

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Please respond to this e-mail with any clarifications of Chevron's involvement with the H2S CP aspects at the facilities mentioned above. Please contact me if you have questions. Thank you.

Xc: OCD Online "GWs 3, 4, 29 and 344" at "H2S Contingency Plan" Thumbnail

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3490 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: <u>http://www.emnrd.state.nm.us/ocd/index.htm</u> "Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: <u>http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental</u>)

00 - SPE Churron USA, I 3/31 Mtz Nime Co 5-1000 Carl j. Chave -476-3490 Aux Chaver OCD_2B 5:5 @ state Mm.US HUDSIN CHARDON 713-372-9207 MAT James Oknelas Conestoga Rovers : Associates 432-686-0086 GLOWN VONGONTEN DGD Loonind love DCI) ____ Jin Griswold τí



Susana Martinez Governor

Brett F. Woods, Ph.D. Acting Cabinet Secretary Daniel Sanchez Acting Division Director Oil Conservation Division

March 1, 2011



Mr. Matt Hudson Project Manager Chevron U.S.A. Inc. 11111 South Wilcrest Houston, TX 77099

Dear Mr. Hudson:

Re: Eunice South Gas Plant (GW-003) Oil and Gas Facilities/Operations that may Vent and/or Flare H₂S Gas

In New Mexico, the OCD Rules that pertain to Hydrogen Sulfide (H₂S) Gas are provided at § 19.15.11 <u>et seq</u>. NMAC (Hydrogen Sulfide Gas). The OCD Oil and Gas Rules that address "No-Flare" and the OCD Form C-129 process are provided at § 19.15.7.37 <u>et seq</u>. NMAC (Application for Exception to No-Flare). Gas plants have gas gathering pipelines with meters connected to operators who then either sell or vent casinghead gas into the gas gathering pipelines that feed into the plants. The OCD Rules that pertain to "Casinghead Gas" are provided at § 19.15.18.12 <u>et seq</u>. NMAC (Production Operating Practices).

This letter was precipitated by a recent event where a gas plant operator shut-in a "gas gathering pipeline." This "shutting-in" of the pipeline impacted approximately thirty individually-metered operators who may have continued operating instead of "shutting-in" their well(s). In spite of the fact that approximately thirty operators were impacted, the OCD observed that only one of those thirty operators contacted the OCD via Form C-129 as required under the OCD Rules to obtain approval of their application for an "exception to no-flare." (The operator initially had contacted the OCD to request approval to vent H_2S gas into the air rather than shut-in the well.) The OCD has serious public safety concerns when operators do not properly shut-in their wells when gas gathering pipelines and/or meters are shut-in, especially where the wells are near populated and/or agricultural areas due to the potential for loss of life from toxic gas.

In subsequent communications with gas plant operators who flare gas, the OCD discovered that the operators were under the impression that if their facility has an NMED- AQB Construction Permit which includes a provision to flare/emit gas, then this is all that is needed to operate in New Mexico. This is actually only partially

Oil Conservation Division 1220 South St. Francis Drive - Santa Fe, New Mexico 87505 Phone (505) 476-3440 - Fax (505) 476-3462 - www.emnrd.state.nm.us/OCD

Mr. Hudson Chevron U.S.A. Inc. March 1, 2011 Page 2 of 2

correct because operators are also required to comply with the requirements set out in the OCD Rules regarding flaring and venting. For example, in the situation where a gas plant operator has notified connected well operators of a gas-gathering pipeline shut-down, each of those well operators is required to shut-in its well(s) or to obtain OCD District Supervisor approval to flare via an OCD C-129 Form. Operators who do not comply are illegally venting and/or flaring gas under OCD Rules.

In addition, gas plants and/or oil and gas operators may be required to satisfy OCD § 19.15.11 et seq. NMAC (Hydrogen Sulfide Gas) Contingency Plan requirements for facilities and wells in cases where 100 ppm or greater H/S concentrations may impact public areas. OCD records indicate that Chevron U.S.A. Inc. does not currently have an H/S Contingency Plan (CP) on file with the OCD. If you do not have an approved CP under § 19.15.11 et seq. NMAC (Hydrogen Sulfide Gas) for your gas plant yet, please submit your CP to the OCD Environmental. Bureau in Santa Fe on or before August 11, 2011. (The OCD notes that it is aware of some operators who have recently submitted CPs to the OCD that are currently under review. Please advise if this is the case for Chevron U.S.A. Inc.)

The OCD recognizes that when multiple sets of Rules, Regulations and Statutes apply, it can sometimes be tricky to definitively determine which requirements apply, to whom and in what circumstances. Operators must, however, take all care to ensure that they are at all times operating in compliance with all applicable state, federal and/or local rules and regulations. In this instance, this means that operators are subject not only to the requirements imposed by the NMED-AQB permitting structure, but also to those set forth in the OCD Rules.

We hope that this communication has helped to clarify the issue regarding the applicability of the OCD Rules in these situations, regardless of the existence of a valid NMED-AQB permit. Please contact Carl Chavez of my staff at (505) 476-3490 if you have questions or need assistance with the CP. The OCD looks forward to bringing your facility into compliance with OCD Rules if it is not currently already in compliance. Thank you for your cooperation in this matter.

Sincerely,

Daniel Sanchez, Compliance & Enforcement Manager

xc: Richard Goodyear, NMED- AQB OCD Environmental Bureau OCD District Offices New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Brett F. Woods, Ph.D. Acting Cabinet Secretary Daniel Sanchez Acting Division Director Oil Conservation Division

March 1, 2011



Mr. Matt Hudson Project Manager Chevron U.S.A. Inc. 11111 South Wilcrest Houston, TX 77099

Dear Mr. Hudson:

Re: Eunice North Gas Plant (GW-004) Oil and Gas Facilities/Operations that may Vent and/or Flare H₂S Gas

The New Mexico Oil Conservation Division (OCD) is writing to operators of the above-referenced types of facilities or operations that may have New Mexico Environmental Department (NMED) - Air Quality Bureau (AQB) Oil and Gas type Permits. The purpose of this communication is to inform operators of such facilities regarding OCD Rules that may be applicable to gas plant operators and/or oil and gas facilities/operations in the hope that it provides some clarification regarding the applicability of these rules, and to ultimately increase overall compliance

In New Mexico, the OCD Rules that pertain to Hydrogen Sulfide (H₂S) Gas are provided at § 19.15.11 <u>et seq</u>. NMAC (Hydrogen Sulfide Gas). The OCD Oil and Gas Rules that address "No-Flare" and the OCD Form C-129 process are provided at § 19.15.7.37 <u>et seq</u>. NMAC (Application for Exception to No-Flare). Gas plants have gas gathering pipelines with meters connected to operators who then either sell or vent casinghead gas into the gas gathering pipelines that feed into the plants. The OCD Rules that pertain to "Casinghead Gas" are provided at § 19.15.18.12 <u>et seq</u>. NMAC (Production Operating Practices).

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Daniel Sanchez, Compliance & Enforcement Manager

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