# GW - <u>370</u>

# PERMITS, RENEWALS, & MODS

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# RECEIVED

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January 30, 2008

Mr. Wayne Price Bureau Chief NMOCD Environmental Bureau 1220 South St. Francis Drive Santa FE, New Mexico, 87505

#### VIA FEDERAL EXPRESS PRIORITY OVERNIGHT

RE: PUBLIC NOTICES FOR NASH DRAW (GW-366), HARROUN (GW-370), FORTSON (GW-371), TRESTLE (GW-367), SOUTH EUNICE (GW-369) AND WANTZ (GW-368) DISCHARGE PLANS

Dear Mr. Price:

Enclosed are copies of the notices and the Affidavits of Publication from the Carlsbad Current Argus (for Nash Draw, Fortson and Harroun) and the Hobbs Sun (for Trestle, Wantz and South Eunice).

The newspaper notices were published on Thursday, January 17, 2008.

Please give me a call at (505) 842-8000 if you have any questions.

Sincerely, Geolex, Inc.

James C. Hunter, R.G.

JCH/jh

Enclosures

cc w/enclosures: Mr. Tony Savoie, SUGS

G:\06-012\Correspondence\WaynePriceNotices.doc

phone: 505-842-8000 fax: 505-842-7380 500 Marquette Avenue NW, Suite 1350 Albuquerque, New Mexico 87102 email: aag@geolex.com web: www.geolex.com

#### **Affidavit of Publication**

State of New Mexico, County of Eddy, ss.

**April Hernandez**, being first duly sworn, on oath says:

That she is HR Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

January 17

2008

That the cost of publication is \$ 93.46 that Payment Thereof has been made and will be assessed as court costs.

Spril Hernandes

Subscribed and sworn to before me this

day of My commission Expires on

**Notary Public** 

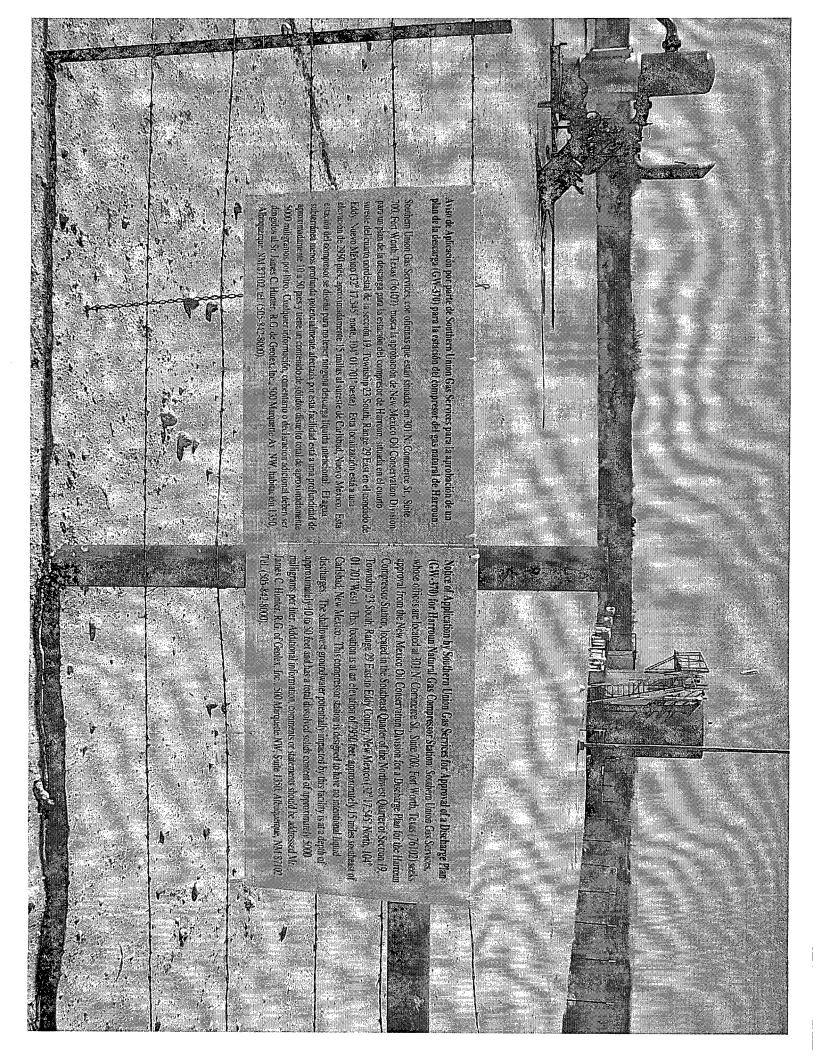
January 17, 2008

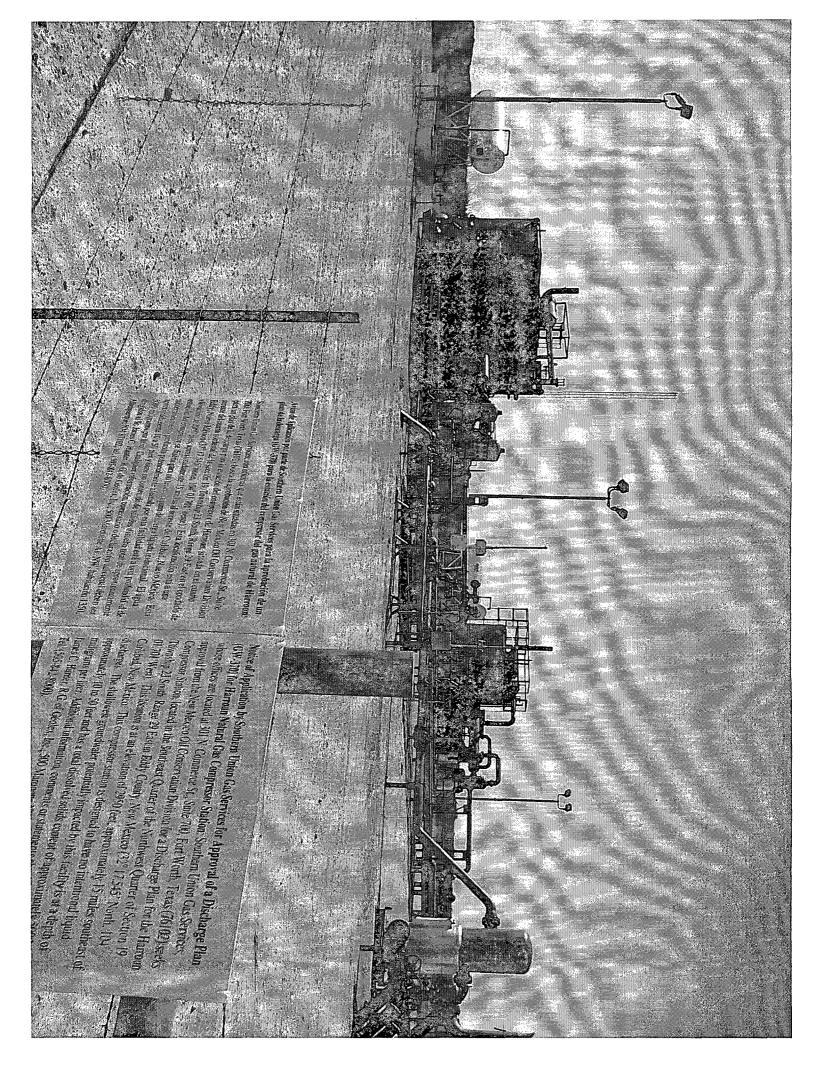
Notice of Application by Southern Union Gas Services for Ap proval of a Discharge Plan (GW-370) for Harroun Natural Gas **Compressor Station:** Southern Union Gas Services, whose of fices are located at 301 N. Commerce St., Suite 700, Fort Worth, Texas (76102) seeks approval from the New Mexico Oil **Conservation Division** for a Discharge Plan for the Harroun Com pressor Station, locat ed in the Southeast Quarter of the North west Quarter of Sec. tion 19, Township 23 South, Range 29 East in Eddy County, New Mexico (32o 17.545' North, 104o 01.701'West). This lo cation is at an eleva tion of 2950 feet, ap proximately 15 miles southeast of Carls bad, New Mexico. This compressor sta tion is designed to have no intentional liquid discharges. The shallowest groundwater potenti ally impacted by this facility is at a depth of approximately 10 to 50 feet and has a total dissolved solids content of approxi mately 5000 milli grams per liter. Addi tional information, comments or state ments should be ad dressed Mr. James C. Hunter, R.G. of Geolex, Inc., 500 Marquette NW, Suite 1350, Albuquerque, NM 87102, Tel. (505-842-8000). Aviso de Aplicación por parte de Southern Union Gas Services

para la aprobación de

un plan de la descar ga (GW-370) para la u estación del compre sor del gas natural de Harroun:

Southern Union Gas Services, con oficinas que están situadas en 301 N. Commerce St., Suite 700, Fort Worth, Texas (76102) busca la aprobación de New Mexico Oil **Conservation Division** para un plan de la descarga para la es tación del compresor de Harroun, situada en el cuarto sureste del cuarto nordestal de la sección 19, Township 23 South, Range 29 East en el condado de Eddy, Nuevo México (32o 17.545' norte, 104o 01.701' oeste). Esta localización está a una elevación de 2950 pies, aproxima damente 15 millas al sureste de Carlsbad, Nuevo México. Esta estación del compre sor se diseña para no tener ninguna descar ga líquida intencion al. El agua subterrá nea menos profunda potencialmente afec tada por esta facili dad está a una pro fundidad de aproxi madamente 10 a 50 pies y tiene un conte nido de sólidos dis uelto total de aproxi madamente 5000 mi ligramos por litro. Cualquier informa ción, comentario o declaración adicional deben ser dirigidos al Sr. James C. Hunter, R.G. de Geolex, Inc., 500 Marquette Av. NW, habitación 1350, Albuquerque, NM 87102, tel. (505-842-8000).







301 Commerce St., Ste. 700 Fort Worth, TX 76102

Phone: 817.302.9426 Fax: 817.302.9351

February 1, 2008

Wayne Price Environmental Bureau Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Subject: Discharge Permit - Approval Conditions Harroun Gas Compressor Station GW-370 UL E of Section 19, Township 22 South, Range 29 East, NMPM Eddy County, New Mexico

Dear Mr. Wayne Price:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 – 20.6.2.3114 NMAC, the Oil Conservation (OCD) has approved the discharge permit for Southern Union Gas Services, Ltd. (SUGS) for the above referenced site contingent upon the conditions specified with the permit. SUGS agrees to the conditions as stated and the conditions agreement has been signed by Bruce M. Williams, VP Gas Operations, with an original copy attached.

We appreciate your efforts in getting this accomplished in an expeditious manner. If there are any questions, please do not hesitate to contact myself at the number above or email <u>robert.gawlik@sug.com</u> or Tony Savoie at 585-395-2085 or email <u>tony.savoie@sug.com</u>.

Regards,

Robert L. Gawlik

Manger, Environmental Health and Safety

C: BMW/RAM/JW/HH Tony Savoie Randall Dunn Alberto Gutierrez w/ Geolex



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor Joanna Prukop Cabinet Secretary

January 23, 2008

GW-370

Mr. Bruce Williams Southern Union Gas Services, Ltd. 301 Commerce St. Ste. 700 Fort Worth, Texas 76102

Re: Discharge Permit
Harroun Gas Compressor Station (GW-370)
UL E of Section 19, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico,

Dear Mr. Bruce Williams:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 - 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby approves the discharge permit for the Southern Union Gas Services, Ltd. (owner/operator) for the above referenced site contingent upon the conditions specified in the enclosed Attachment to the Discharge Permit. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 15 working days of receipt of this letter including permit fees.

Please be advised that approval of this permit does not relieve the owner/operator of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Carl Chavez of my staff at (505-476-3491) or E-mail carlj.chavez@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Wayne Price Environmental Bureau Chief

Attachments-1 xc: OCD District Office Mark E. Fesmire, P.E. Director Oil Conservation Division

#### ATTACHMENT- DISCHARGE PERMIT APPROVAL CONDITIONS

1. Payment of Discharge Plan Fees: All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division ("OCD") has received the required \$100.00 filing fee and the \$1700.00 flat fee.

2. Permit Expiration, Renewal Conditions and Penalties: Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. The permit will expire on January 30, 2013 and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act {Chapter 74, Article 6, NMSA1978} and civil penalties may be assessed accordingly.* 

3. **Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the owner/operator must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38.

4. **Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its August 28, 2007 discharge plan application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.

5. Modifications: WQCC Regulation 20.6.2.3107.C, and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is being or will be exceeded, or if a toxic pollutant as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.

6. Waste Disposal and Storage: The owner/operator shall dispose of all wastes at an OCDapproved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class II well. RCRA non-hazardous, non-exempt oil field wastes may be disposed of at an OCD-approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

A. OCD Rule 712 Waste: Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

**B.** Waste Storage: The owner/operator shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

7. **Drum Storage:** The owner/operator must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The owner/operator must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The owner/operator must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

8. Process, Maintenance and Yard Areas: The owner/operator shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

9. Above Ground Tanks: The owner/operator shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The owner/operator shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

**10.** Labeling: The owner/operator shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The owner/operator may use a tank code numbering system, which is incorporated into their emergency response plans.

#### 11. Below-Grade Tanks/Sumps and Pits/Ponds.

A. All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

B. All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

C. The owner/operator shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

D. The owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

#### 12. Underground Process/Wastewater Lines:

A. The owner/operator shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The owner/operator may use other methods for testing if approved by the OCD.

B. The owner/operator shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The owner/operator shall report any leaks or loss of integrity to the OCD within 15 days of discovery. The owner/operator shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

13. Class V Wells: The owner/operator shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only, must be permitted by the New Mexico Environment Department (NMED).

14. Housekeeping: The owner/operator shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The owner/operator shall maintain all records at the facility and available for OCD inspection.

**15. Spill Reporting:** The owner/operator shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation 20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The owner/operator shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

16. **OCD Inspections:** The OCD may place additional requirements on the facility and modify the permit conditions based on OCD inspections.

17. Storm Water: The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any stormwater run-off. The owner/operator shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

**18.** Unauthorized Discharges: The owner/operator shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application and approved herein. <u>An unauthorized discharge is a violation of this permit.</u>

19. Vadose Zone and Water Pollution: The owner/operator shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the owner/operator to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

20. Additional Site Specific Conditions: <u>N/A</u>

21. Transfer of Discharge Permit (WQCC 20.6.2.3111) Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee. Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit. The transferee (new owner/operator) shall sign and return an original copy of these permit conditions and provide a written commitment to comply with the terms and conditions of the previously approved discharge permit.

**22.** Closure Plan and Financial Assurance: Pursuant to 20.6.2.3107 NMAC an owner/operator shall notify the OCD when any operations of the facility are to be discontinued for a period in excess of six months. Prior to closure, or as a condition of this permit, or request from the OCD, the operator will submit an approved closure plan, modified plan, and/or provide adequate financial assurance.

23. Certification: (Owner/Operator), by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained here. Owner/Operator further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

<u>Conditions accepted by</u>: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

<u>Southern Union Gas Services, Ltd.</u> Company Name-print name above

Bruce M. Williams Company Representative- print name

Company Representative- Signature

Title VP - Gas Operations

Date: January 31, 2008



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

January 23, 2008

GW-370

Mr. Bruce Williams Southern Union Gas Services, Ltd. 301 Commerce St. Ste. 700 Fort Worth, Texas 76102

Re: Discharge Permit Harroun Gas Compressor Station (GW-370) UL E of Section 19, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico,

Dear Mr. Bruce Williams:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 - 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby approves the discharge permit for the Southern Union Gas Services, Ltd. (owner/operator) for the above referenced site contingent upon the conditions specified in the enclosed Attachment to the Discharge Permit. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 15 working days of receipt of this letter including permit fees.

Please be advised that approval of this permit does not relieve the owner/operator of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Carl Chavez of my staff at (505-476-3491) or E-mail carlj.chavez@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Wayne Price Environmental Bureau Chief

Attachments-1 xc: OCD District Office

#### ATTACHMENT- DISCHARGE PERMIT APPROVAL CONDITIONS

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2. Permit Expiration, Renewal Conditions and Penalties: Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. The permit will expire on January 30, 2013 and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act {Chapter 74, Article 6, NMSA1978} and civil penalties may be assessed accordingly.* 

**3. Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the owner/operator must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38.

4. **Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its August 28, 2007 discharge plan application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.

**5. Modifications:** WQCC Regulation 20.6.2.3107.C, and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is being or will be exceeded, or if a toxic pollutant as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.

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**B.** Waste Storage: The owner/operator shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

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C. The owner/operator shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

D. The owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

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**15. Spill Reporting:** The owner/operator shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation 20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The owner/operator shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

16. **OCD Inspections:** The OCD may place additional requirements on the facility and modify the permit conditions based on OCD inspections.

17. Storm Water: The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any stormwater run-off. The owner/operator shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

18. Unauthorized Discharges: The owner/operator shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application and approved herein. <u>An unauthorized discharge is a violation of this permit.</u>

19. Vadose Zone and Water Pollution: The owner/operator shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the owner/operator to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

20. Additional Site Specific Conditions: <u>N/A</u>

21. Transfer of Discharge Permit (WQCC 20.6.2.3111) Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee. Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit. The transferee (new owner/operator) shall sign and return an original copy of these permit conditions and provide a written commitment to comply with the terms and conditions of the previously approved discharge permit.

**22.** Closure Plan and Financial Assurance: Pursuant to 20.6.2.3107 NMAC an owner/operator shall notify the OCD when any operations of the facility are to be discontinued for a period in excess of six months. Prior to closure, or as a condition of this permit, or request from the OCD, the operator will submit an approved closure plan, modified plan, and/or provide adequate financial assurance.

23. Certification: (Owner/Operator), by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained here. Owner/Operator further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

<u>Conditions accepted by</u>: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

Company Name-print name above

Company Representative- print name

Company Representative- Signature

Title

Date:

#### Price, Wayne, EMNRD

From: Price, Wayne, EMNRD

Sent: Wednesday, December 19, 2007 4:07 PM

To: 'Alberto A. Gutierrez, RG'

Cc: Hansen, Edward J., EMNRD; Chavez, Carl J, EMNRD

Subject: Southern Union Discharge Permits Gw-366-371

Attachments: DraftPermitNoticeGw366-371.DOC; Southern Union Wantz (GW-368)Draft permit\_12\_2007.doc; Southern Union Nash Draw (GW-366)Draft permit\_12\_2007.doc; Southern Union S Eunice (GW-369)Draft permit\_12\_2007.doc; Southern Union S Harroun (GW-370)Draft permit\_12\_2007.doc; Southern Union Trestle (GW-367)Draft permit\_12\_2007.doc; Southern Union Fortson (GW-371)Draft permit\_12\_2007.doc

Dear Mr. Gutierrez and Bruce Williams:

OCD has deemed that the permit applications subject above is hereby administrative complete. Please issue your public notices pursuant WQCC 20.6.2.3108.

Please provide proof of notice once issued. Please find attached OCD's public notice that is going out today and a copy of the draft permits. Please do not sign these drafts. After 30 days and if OCD has not received comment then we will send you the final draft for your sign-off.

Thank You for your cooperation.

Wayne Price-Environmental Bureau Chief Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail <u>wayne.price@state.nm.us</u> Tele: 505-476-3490 Fax: 505-476-3462

GW-370



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

December 19, 2007

GW-370 **DRAFT** 

Mark E. Fesmire, P.E. Director

**Oil Conservation Division** 

Mr. Bruce Williams Southern Union Gas Services, Ltd. 301 Commerce St. Ste. 700 Fort Worth, Texas 76102

Re: Discharge Permit Harroun Gas Compressor Station (GW-370) UL E of Section 19, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico,

Dear Mr. Bruce Williams:

Pursuant to Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 - 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby approves the discharge permit for the Southern Union Gas Services, Ltd. (owner/operator) for the above referenced site contingent upon the conditions specified in the enclosed Attachment to the Discharge Permit. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter including permit fees.

Please be advised that approval of this permit does not relieve the owner/operator of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Carl Chavez of my staff at (505-476-3491) or E-mail carlj.chavez@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff For your cooperation during this discharge permit review.

Sincerely,

Wayne Price Environmental Bureau Chief

Attachments-1 xc: OCD District Office

GW-370 **DRAFT** Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 2

#### ATTACHMENT- DISCHARGE PERMIT APPROVAL CONDITIONS

1. **Payment of Discharge Plan Fees:** All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division ("OCD") has received the required \$100.00 filing fee and the \$1700.00 flat fee.

2. Permit Expiration, Renewal Conditions and Penalties: Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. The permit will expire on January 30, 2012 and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act {Chapter 74, Article 6, NMSA1978} and civil penalties may be assessed accordingly.* 

3. **Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the owner/operator must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38.

4. **Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its August 28, 2007 discharge plan application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.

5. Modifications: WQCC Regulation 20.6.2.3107.C, and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is being or will be exceeded, or if a toxic pollutant as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.

GW-370 **DRAFT** Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 3

6. Waste Disposal and Storage: The owner/operator shall dispose of all wastes at an OCDapproved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class II well. RCRA non-hazardous, non-exempt oil field wastes may be disposed of at an OCD-approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

A. OCD Rule 712 Waste: Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

**B.** Waste Storage: The owner/operator shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

7. **Drum Storage:** The owner/operator must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The owner/operator must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The owner/operator must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

8. Process, Maintenance and Yard Areas: The owner/operator shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

9. Above Ground Tanks: The owner/operator shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The owner/operator shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

**10.** Labeling: The owner/operator shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The owner/operator may use a tank code numbering system, which is incorporated into their emergency response plans.

GW-370 **DRAFT** Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 4

#### 11. Below-Grade Tanks/Sumps and Pits/Ponds.

A. All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

B. All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

C. The owner/operator shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

D. The owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

#### 12. Underground Process/Wastewater Lines:

A. The owner/operator shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The owner/operator may use other methods for testing if approved by the OCD.

GW-370 **DRAFT** 

Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 5

B. The owner/operator shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The owner/operator shall report any leaks or loss of integrity to the OCD within 15 days of discovery. The owner/operator shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

13. Class V Wells: The owner/operator shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only, must be permitted by the New Mexico Environment Department (NMED).

14. Housekeeping: The owner/operator shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The owner/operator shall maintain all records at the facility and available for OCD inspection.

**15. Spill Reporting:** The owner/operator shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation 20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The owner/operator shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

**16. OCD Inspections:** The OCD may place additional requirements on the facility and modify the permit conditions based on OCD inspections.

**17. Storm Water:** The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any stormwater run-off. The owner/operator shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

**18. Unauthorized Discharges:** The owner/operator shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application and approved herein. <u>An unauthorized discharge is a violation of this permit.</u>

GW-370 **DRAFT** Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 6

**19.** Vadose Zone and Water Pollution: The owner/operator shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the owner/operator to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

#### 20. Additional Site Specific Conditions: <u>N/A</u>

**21. Transfer of Discharge Permit (WQCC 20.6.2.3111)** Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transfer or shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee. Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit. The transferee (new owner/operator) shall sign and return an original copy of these permit conditions and provide a written commitment to comply with the terms and conditions of the previously approved discharge permit.

**22. Closure Plan and Financial Assurance:** Pursuant to 20.6.2.3107 NMAC an owner/operator shall notify the OCD when any operations of the facility are to be discontinued for a period in excess of six months. Prior to closure, or as a condition of this permit, or request from the OCD, the operator will submit an approved closure plan, modified plan, and/or provide adequate financial assurance.

23. Certification: (Owner/Operator), by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained here. Owner/Operator further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

GW-370 **DRAFT** 

Mr. Bruce Williams Southern Union Gas Services, Ltd. Page 7

<u>Conditions accepted by</u>: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

Company Name-print name above

Company Representative- print name

Company Representative- Signature

Title\_\_\_\_\_

Date:\_\_\_\_\_

#### NOTICE OF PUBLICATION

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Southern Union Gas Services., Bruce Williams, Bruce Williams, Vice President of Operations, 301 Commerce St., Ste 700 Fort Worth, Texas 76102, telephone 817-302-9400, has submitted discharge plan applications for the following facilities:

(GW-366) Nash Draw Gas Compressor Station located in Eddy Co. approximately 25 miles SE of Carlsbad, NM in UL I- Section 30, Ts 24S, R 30 E, groundwater depth is 100-300 feet deep with a quality of 2500 mg/l of Total Dissolved Solids;

(GW-370) Harroun Gas Compressor Station located in Eddy Co. approximately 15 miles SE of Carlsbad, NM in UL E- Section 19, Ts 23S, R 29 E, groundwater depth is 10-50 feet deep with a quality of 5000 mg/l of Total Dissolved Solids;

(GW-371) Fortson Gas Compressor Station located in Eddy Co. approximately 28 miles SE of Carlsbad, NM in UL A- Section 25, Ts 24S, R 30 E, groundwater depth is 100-300 feet deep with a quality of 2500 mg/l of Total Dissolved Solids;

(GW-367) Trestle Gas Compressor Station located in Lea Co. approximately 9 miles north of Eunice, NM in SE/4 SE/4 of Section 3, Ts 21S, R 37E, Groundwater depth is 70-100 feet deep with a quality of 700-800 mg/l of Total Dissolved Solids;

(GW-368) Wantz Gas Compressor Station located in Lea Co. approximately 2 miles northwest of Eunice, NM in SW/4 SW/4 of Section 21, Ts 21S, R 37E, Groundwater depth is 70-100 feet deep with a quality of 700-800 mg/l of Total Dissolved Solids;

(GW-369) South Eunice Gas Compressor Station located in Lea Co. approximately 2 miles south of Eunice, NM in UL-A of Section 10, Ts 22S, R 37E, Groundwater depth is 70-100 feet deep with a quality of 700-800 mg/l of Total Dissolved Solids;

# The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <a href="http://www.emnrd.state.nm.us/ocd/">http://www.emnrd.state.nm.us/ocd/</a>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice,

during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio'n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19<sup>th</sup> day of December 2007.

#### STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL

Mark Fesmire, Director



301 Commerce St., Ste. 700 Fort Worth, TX 76102

817.302.9400 Fax: 817.302.9350

August 28, 2007

Mr. Carl Chavez Environmental Engineer New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

# Re: APPLICATION BY SOUTHERN UNION GAS SERVICES FOR RENEWAL OF A DISCHARGE PLAN FOR HARROUN COMPRESSOR STATION GW - 370

Dear Mr. Chavez:

Southern Union Gas Services, Ltd. ("SUGS") hereby submits the enclosed Discharge Plan Application for the initial discharge plan for the Harroun Compressor Station. The Harroun Compressor Station, located in Unit E of Section 19, Township 23 South, Range 29 East in Eddy County, New Mexico (32° 17.545' North, 104° 01.701' West).

Enclosed are two checks in the amounts of \$1700.00 for the permit fee and the filing fee of \$100.00, as listed in Section 20.6.2.3144 of the NMWQCC regulations.

Also included for your review as Appendix D to the application is a draft of the public notice required in NMWQCC section 20.6.2.3108. Following NMOCD review and acceptance, we propose to post this notice using a 2'x3' sign, in English and Spanish, at the gate of the above-named facility. Identified adjacent landowners will be provided with copies of this notice by mail, and any owners of any lands the proposed discharge site not owned by SUGS will be notified by certified, receipt requested mailing. The notice will also be advertised, in English and in Spanish, in a 3"x4" display advertisement in the Carlsbad Current-Argus.

Please contact our consultant in this matter, Mr. James C. Hunter, RG (Geolex, Inc.) at (505) 842-8000, if you have any questions or require additional information regarding this submittal.

Sincerely, Southern Union Gas Services, Ltd.

Willim

Bruce Williams Vice President – Operations

Enclosures

cc: w/o enclosures James C. Hunter, RG – Geolex, Inc. Tony Savoie – SUGS – Jal, NM



RECEIVED 301 Commerce St., Ste. 700 Fort Worth, TX 76102 817.302.9400 Fax: 817.302.9350

Mr. Carl Chavez Environmental Engineer

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

### Re: APPLICATION MODIFICATION BY SOUTHERN UNION GAS SERVICES FOR A DISCHARGE PLAN FOR HARROUN COMPRESSOR STATION Gw - 370

Dear Mr. Chavez:

August 30, 2007

Southern Union Gas Services, Ltd. submitted a Discharge Plan Application for the Harroun Compressor Station on August 28, 2007. The Harroun Compressor Station is located in Unit E of Section 19, Township 23 South, Range 29 East in Eddy County, New Mexico (32° 17.545' North, 104° 01.701' West).

We would like to take this opportunity to provide notice that the Harroun Compressor Station will be receiving an additional 550 horsepower compressor. There will be no change in the basic process and/or materials used at this station. We request that this letter be considered notice of a minor modification to our previously submitted application. However; if you would prefer that we revise our discharge plan to reflect this modification, we would be pleased to do so upon request, and incorporate this modification in the final version of the discharge plan following NMOCD's comments regarding the August 28 submittal.

Please contact our consultant in this matter, Mr. James C. Hunter, RG (Geolex, Inc.) at (505) 842-8000, if you have any questions or require additional information.

Sincerely, Southern Union Gas Services, Ltd.

Bruce Williams Vice President – Operations

cc: James C. Hunter, RG – Geolex, Inc. Tony Savoie – SUGS – Jal, NM



### Application for New Mexico Oil Conservation Division Discharge Plan HARROUN COMPRESSOR STATION 6W-370

(Section 19, Township 23 South, Range 29 East)



Prepared For:

New Mexico Oil Conservation Division 1200 South Saint Francis Drive Santa Fe, New Mexico 87505

On Behalf of:

Southern Union Gas Services, Ltd. 301 Commerce Street, Suite 700 Fort Worth, Texas 76102 Telephone: (817)-302-9400

Prepared By:

Geolex, Inc. <sup>®</sup> 500 Marquette Avenue, NE, Suite 1350 Albuquerque, New Mexico 87102 Telephone: (505) 842-8000



District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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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

Revised June 10, 2003

Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office

#### DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

New New Renewal Modification 1. Type: Harroun Gas Compressor Station 2. Operator: Southern Union Gas Services, L.P. Address: P.O. Box 1226, Jal, New Mexico 88252 Contact Person: Mr. Randall Dunn Phone: (505)-395-2116 3. Location: SE 1/4 NW 1/4 Section 19 Township 23S Range 29E Submit large scale topographic map showing exact location. Attach the name, telephone number and address of the landowner of the facility site. 4. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility. 5.

6. Attach a description of all materials stored or used at the facility.

- 7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- 8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- 9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- 10. Attach a routine inspection and maintenance plan to ensure permit compliance.
- 11. Attach a contingency plan for reporting and clean-up of spills or releases.
- 12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
- 13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name:	Mr. Bruce Williams	1.	Title:	Vice President, Operations
Signature:	Brun M.	Hallin	Date:	8-28-07

E-mail: Bruce.Williams@SUGS.com\_\_\_\_

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#### LIST OF APPENDICES

- A: Material Data Sheets
- B: Standard Operating Procedures for Wastewater Sampling at Compressor Stations
- C: Analytical Data and Documentation
- D: Proposed Notice of Application, Locations and Newspaper for Publication

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#### **1.0 TYPE OF OPERATION**

The Harroun Compressor Station (Harroun) is a natural gas compressor station. It compresses field gas, removes excess liquids, measures gas volumes, and transports the gas to pipelines. The facility uses a single compressor with a capacity of approximately 10,000,000 standard cubic feet of gas per day.

#### 2.0 OPERATOR AND LEGALLY RESPONSIBLE PARTY

The Operator is:

Southern Union Gas Services, Ltd. (SUGS) Contact: Mr. Randall Dunn P.O. Box 1226 Jal, New Mexico 88252 Telephone: (505)-395-2116

The Responsible Party is:

Southern Union Gas Services, Ltd. Contact: Mr. Bruce Williams 301 Commerce St. Suite 700 Fort Worth, Texas 76102 Telephone: (817)-302-9421

#### 3.0 LOCATION OF DISCHARGE/FACILITY

The Harroun station is located in Unit E of Section 19, Township 23 South, Range 29 East in Eddy County, New Mexico (32<sup>°</sup>, 17.545' North, 104<sup>°</sup> 01.701'West). This location is at an elevation of 2950 feet, approximately 15 miles southeast of Carlsbad, New Mexico (see Figure 1).

#### 4.0 LANDOWNER

The land is owned by the U. S. Federal Government and is administered by:

Bureau of Land Management Carlsbad Field Office: 620 E. Greene St. Carlsbad, NM 88220 (505) 234-5972 Fax (505) 885-9264

Hobbs Field Station: 414 West Taylor Hobbs, NM 88240 (505) 393-3612 Fax (505) 393-4280

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#### 5.0 SITE CHARACTERISTICS

#### 5.1 GEOLOGICAL SETTING

The site lies in the Delaware Basin region of the Permian Basin, a thick and complex sequence of primarily marine carbonates which extends from southeastern New Mexico into west Texas. The stratigraphy of the Delaware Basin includes the basal Leonard series (Bone Springs Formation), the overlying Guadalupe series (Brushy Canyon, Cherry Canyon and Bell Canyon formations), and the uppermost Ochoan series, including the Castile and Salado evaporites and the clastic Rustler Formation. The most recent Quaternary deposits near Harroun are primarily alluvial terraces of the Pecos River. These deposits range in thickness from zero to over 200 feet, and are a locally important aquifer in the site area.

5.1.1 Site Area Geology

The Harroun Compressor site is situated on a low bluff on the east side of the Pecos River. (see Figure 1). Local soils are tan to reddish silt and clay with minor sand and caliche. Surficial deposits consist of Pecos River alluvium overlying the eroded beds of the Dewey Lake redbeds of the Permian Rustler Formation (Hendrickson and Jones, 1951, Plate 1).

These units are underlain by the Salado and Castile evaporites, containing salt (halite), potash, gypsum and anhydrite. The Salado salts are being mined to construct the Waste Isolation Pilot Project (WIPP), located approximately 15 miles northeast from Harroun. Salt and potash are also extracted by mining and solution extraction in the area north of Harroun.

5.1.2 Uppermost Aquifer

Outside the local alluvium of the valley of the Pecos River underlying the site, the only source of potentially potable drinking water is in the sandy to silty Dewey Lake beds, which overly the relatively impermeable evaporites of the Salado Formation. Within the Dewey Lake units, groundwater occurs in water-table conditions, interspersed with local perched and semi-confined hydrogeological units.

5.1.3 Depth to Water, Direction of Groundwater Flow and Quality

Depth to water in the area of Harroun is from 20 to 50 feet. According to maps published by Hendrickson and Jones (1951), the flow of groundwater in the upper aquifer in the area of Harroun is southeasterly at a gradient of 0.003 (approximately 15 feet per mile).

Available information on groundwater quality is limited in the immediate area of Harroun. The nearest published information is from a well in Section 24, T23S, R29E (approximately 1 mile east of Harroun. This well is completed in the alluvium and has a Total Dissolved Solids of 5100 milligrams per liter (Hendrickson and Jones, 1951; pp. 144 and 162)

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#### 5.1.4 Nearest Potential Groundwater Receptors

As seen in Figure 2, there are number of water wells within one mile of Harroun, although none are immediately downgradient. A list of the adjacent wells is included in Table 5-1 below. Any wells to the southwest of the Pecos River will be protected by the hydraulic barrier created by the river.

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NMSËO FILE #	OWNER	USE	TOWNSHIP	RANGE	SECTION	DEPTH (FT)	WATER DEPTH (FT)
C00053	CARDONA ANTONIO	Irrigation	235	28E	25	(FT) No Record	No Record
	····		235	28E	25	200	42
C00136 C00136S	JOHN OR JANICE WRIGHT JOHNNIE AND SHARON GIOVENGO	Irrigation No Record	235	28E	25	122	45
C00136A	JOHNNIE AND SHARON GIOVENGO	Irrigation	23S	28E	25	100	60
C00475	KEVIN V. WELLS	Irrigation	23S	28E	25	144	38
C00500	C.A. CARRASCO, JR.	Irrigation	235	28E	24	130	No Record
C00791	MISSISSIPPI CHEMICAL COMPANY	Mining	235	28E	13	No Record	No Record
C00868	DRAPER BRANTLEY, JR.	Irrigation	235	28E	24	190	No Record
C00868	HENRY E MC DONALD	Irrigation	235	28E	24	190	No Record
C00868	HENRY E. OR JACKIE DALE MC DONALD	Irrigation	235	28E	24	190	No Record
C01212	U.S. BORAX & CHEM. CORP.	Exploration	23S	28E	13		No Record
C01213	U.S. BORAX & CHEM. CORP.	Exploration	23S	28E	13	1 	No Record
C01214	U.S. BORAX & CHEM. CORP.	Exploration	235	28E	13	70	20
C01215	U.S. BORAX & CHEM.	Exploration	235	28E	13	104	15
C01216	U.S. BORAX & CHEM. CORP.	Exploration	238	28E	13	60	45
C01210	INTREPID MINING NM LLC US BANK	Commercial	235	28E	13	87	50
C01218	U.S. BORAX & CHEM. CORP.	Exploration	235	28E	13	No Record	No Record
C01238	S. F. WILLIAMS	Stock	23S	28E	25	No Record	No Record
C01255	U.S. BORAX & CHEM. CORP.	Exploration	235	28E	13	No Record	No Record
C01258	US BORAX & CHEM, CORP.	Exploration	235	28E	13	No Record	No Record
C01293	U.S. BORAX & CHEM. CORP.	Exploration	235	28E	13	No Record	No Record
C01443	S.F. WILLIAMS	Stock	235	28E	25	50	27
C02338	S.F. WILLIAMS	Stock	235	28E	25	No Record	No Record
C02703	IMC KALIUM	No Record	235	28E	13	150	No Record
C02927	JOHNNIE GIOVENGO	Exploration	235	28E	25	140	No Record
C03001	JOHNNIE GIOVENGO	Exploration	235	28E	25	140	No Record
C03122	JOHNNIE GIOVENGO, JR.	Domestic	235	28E	25	100	60
C03146	DRAPER BRANTLEY, JR. INTREPID MINING NM LLC	Stock	235	28E	24	_82	36
C00302	US BANK	Industrial	235	28E	13	87	50
C00571	JOHNNIE GIOVENGO, JR.	Irrigation	23S	29E	30	89	38
C02182	SANTA FE ENERGY	Provisional	235	29E	30	75	30
C02500	UNITED SALT CORP. UNITED SALT	Exploration	238	29E	17	No Record	No Record
C02608	CORPORATION UNITED SALT	No Record	235	29E	17	400	No Record
C02613	CORPORATION	Exploration	235	29E	20	400	No Record
C02704	IMC KALIUM	No Record	235	29E	19	174	No Record
C02705	IMC KALIUM	No Record	235	29E	19	68	28
C02706	IMC KALIUM UNITED SALT	No Record	235	29E	18	17	10
C03059	CORPORATION	No Record	23S	29E	17	No Record	65
C03121	JOHNNIE GIOVENGO, JR.	Domestic	23S	29E	30	89	38

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#### 5.2 Surface Water

The nearest permanent body of water is the Pecos River, approximately one half miles west from Harroun (Figure 3). Due to the integral containment of all liquids and the no-discharge design of the facility, there is no significant potential for releases to the Pecos River.

The facility is at an elevation of approximately 2950 feet, whereas the elevation of the Pecos River in this area is at approximately 2850 feet. Although there are no available FEMA flood maps for this area, the difference in elevation (100 feet) indicates that the facility is well outside the 100-year floodplain of the Pecos River.

#### 6.0 FACILITY DESCRIPTION

Harroun is a self-contained facility. All wastes, including stormwater which may come in contact with the units, are properly contained for off-site recycling or disposal. The design and operation of the facility was developed to ensure that that no solid or liquid industrial wastes or discharges are released to the water of the State of New Mexico.

A schematic plan of the facility is included as Figure 4. Field gas entering the site is first routed through a Pig Trap, used to remove "pigs", a plug passed through the pipeline to remove waste solids and fluids which accumulate in the lines (Figure 3). The Pig Trap recovers the "pig" and the wastes (see Section 7.0). This cleaning process is used at irregular intervals, depending on the conditions of the field gas and the pipelines.

Field gas then passes through the Inlet Scrubber, a tank which allows liquids (hydrocarbon liquids and produced water) to settle and accumulate. These liquids are carried to storage tanks (tanks TK-1 and TK-2) by internal piping. These liquids are separated by gravity in the tanks, after which the petroleum liquids are removed by tank truck for recycling and the produced water is removed by tank truck for permitted disposal facilities (see Section 7).

From the Inlet Scrubber, the gas is directed by piping to a second separator, the Suction Scrubber, attached to the inlet of the compressor. The Suction Scrubber is employed to remove any liquids which might have passed through the Inlet Scrubber. The liquids from the Suction Scrubber are piped to the same storage tanks as the liquids from the Inlet Scrubber.

After the final scrubbing, the gas is introduced into the compressor to raise its pressure and transport the gas to transmission pipes, which carry the gas either directly to natural gas process plants, or to additional compressor stations.

The compressor is powered by a natural-gas fueled reciprocating engine, attached directly to the compressor. The natural gas (in the case at Harroun) is obtained from commercial gas pipelines, which supply processed, "sweet" gas from natural gas process plants.

The compressor engine is cooled by a liquid-cycle radiator, filled with a mixture of ethylene glycol antifreeze and water, and is sump-lubricated by conventional motor oil. Supplemental tanks of these fluids, which are automatically replenished as needed, are stored on site.

#### 7.0 MATERIALS STORED AND USED AT FACILITY

The materials used at the facility are listed in Table 7-1 below. Photographs of the tanks are shown in Figures 5 through 11 on the following pages. Although not regularly or permanently stored on the site, other miscellaneous materials are used at the facility for maintenance and pipeline service. These include detergents for equipment cleaning, similar detergents for pipeline cleaning during pigging, and methanol for antifreeze operations in the pipelines during the winter months. Applicable MSDS are included in Appendix A.

ТҮРЕ	ID	MATERIAL	FORM	VOLUME	LOCATION	CONTAINMENT
AGT Steel	TK-1	Scrubber Liquids	Liquid	210 bbl	South Area	Steel 1500 bbl
						Containment
AGT Steel	TK-2	Scrubber Liquids	Liquid	210 bbl	South Area	Common w/TK-1
AGT RFG	TK-3	Wastewater	Liquid	100 bbl	South Area	Common w/TK-1
AGT Steel	TK-4	Antifreeze	Liquid	1000 gal	South of	1100 gal Steel
					Compressor	Containment
AGT Steel	TK-5	Lube Oil	Liquid	1000 gal	South of	1100 gal Steel
					Compressor	Containment
Subgrade	TK-6	Waste Oil	Liquid	325 gal	South of	1000 gal double
Poly					Compressor	walled RFG vault
Steel Pan	<b>TK-7</b>	Pig Wastes	Sludge	55 gal	East of	Stored in TK-1/3
		-	-		Compressor	Containment
Steel Pan	TK-8	Pig Wastes	Sludge	55 gal	North of	Stored in TK-1/3
					Compressor	Containment

# Table 7-1: Materials Stored at Harroun Compressor Station

#### 8.0 SOURCES AND QUANTITIES OF EFFLUENT AND WASTE SOLIDS

The sources and quantities of effluents and solid wastes generated from processes at the Harroun Compressor Station are summarized in Table 8-1 below.

Exempt wastes are generated from the production and processing of petroleum hydrocarbons and gasses and are exempted from hazardous waste regulations under Subtitle C. Non-exempt wastes must be characterized, either by chemical analysis or knowledge of process, to determine their status under all applicable and appropriate hazardous waste regulations. The Harroun Compressor facility's waste management system is designed to prevent the commingling of exempt and non-exempt wastes.

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SOURCE	TYPE OF WASTE	VOLUME	REGULATORY STATUS	STATUS DETERMINATION
Compressor	Used Engine Oil	100-200 gal/month	Non-Exempt	Non-Hazardous per 40 CFR 279.11
	Used Filters	4 per month	Non-Exempt	Non-Hazardous per 40 CFR 261.4
	Wash and storm water from Compressor pad	Washdown 75 to 100 gal/month; stormwater varies	Non-Exempt	Chemical Analysis, knowledge of process
	Sorbent/Rags	Varies	Non-Exempt	Non-Hazardous per 40 CFR 279.11
Scrubbers	Gas Liquids	Varies; 50 to 100 bbl/month	Exempt	EPA Subtitle C
Pig Wastes	Pig Solids	Varies; 55 to 110 gal/month	Exempt	EPA Subtitle C
	Hydrocarbon Liquids	Varies; 55 to 110 gal/month	Exempt	NA EPA Subtitle C
Misc. Trash	Solid Wastes	Varies	Non-Exempt	Knowledge of process

Table 8-1: Waste Sources,	<b>Ouantities and I</b>	Regulatory at Harronn	<b>Compressor Station</b>
Table 0=1. Waste Sources,	Quantities and I	at main our	Compressor Station

The quality and constituents of the washwater and stormwater from the compressor pad may vary if the types or brands of materials used on the pad (lube oil, antifreeze, and soaps) are changed. For this reason, an initial TCLP analysis of the wastewater has been performed, as a grab sample from the pad sump. The Sampling and Analysis Standard Operating Procedures are included in Appendix B.

The most recent analysis is summarized below in Table 8-2. If there are any significant changes in the materials used on the pad, an additional analysis will be performed; using the same collection and analytical methods, prior to the disposal of the wastewater, and the method(s) of disposal will be modified as necessary.

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Date Sampled	3/26/2007		
location	Harroun Compresso	r Station	
Report #	7C27003		
Matrix	Waste water		
Destination: unkn	iown		
Volume transport	ed:		
Date:			
	Analytical	Reg limit (TCLP)	
Toxicity	mg/kg	mg/kg	Determination
Benzene	0.0317	0.5	Non-hazardous
Mercury	ND	0.2	Non-hazardous
Arsenic	J(0.0137)	5.0	Non-hazardous
Barium	0.0844	100.0	Non-hazardous
Cadmium	J(0.00151)	1.0	Non-hazardous
Chromium	J(0.00617)	5.0	Non-hazardous
Lead	J(0.00151)	5.0	Non-hazardous
Selenium	0.0747	1.0	Non-hazardous
Silver	ND	5.0	Non-hazardous
Reactive			
Cyanide	ND	250.0	Non-hazardous
pН	7.82 pH units	<2 or >12.5 pH units	Non-hazardous
Sulfide	ND	500.0	Non-hazardous
Ignitability	>85 deg. C	<60 deg C	Non-hazardous

# Table 8-2: Wastewater Analyses From Harroun Compressor Station

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# 9.0 LIQUID AND SOLID WASTES COLLECTION, STORAGE AND DISPOSAL

The collection, storage, removal and disposal of wastes generated at Harroun are summarized in Table 9-1 below. As determined in Section 8.0 above, the facility does not generate any RCRA hazardous wastes; therefore all wastes are ultimately recycled or by disposed of, in licensed, permitted non-hazardous waste disposal or recycling facilities.

# Table 9-1: Collection, Storage, Removal and Disposal of Wastes at Harroun Compressor Station

TYPE OF WASTE	COLLECTION	STORAGE	REMOVED BY	DISPOSAL
Scrubber Liquids	Piped to TK-1 and TK-2	TK-1 (210 bbl) TK-2 (210 bbl)	Varies <sup>1</sup>	SUGS Jal #4 for separation and sales.
Used Oils	Drained from Compressor pad or drained from engine sump	TK-6 (100 gal)	Quail Petroleum Services	Available Permitted Recycler
Used Filters/Sorbents	Filters drained to container on pad; rags and sorbents to dumpster.	Dumpster	Quail Petroleum Services	Available Permitted Recycler
Wash Water	Piped to TK-3	TK-3 (100 bbl)	Varies <sup>1</sup>	Nearest Available Permitted Facility
Pig Wastes	Drained into 55 Gallon Temp. Barrels	55 Gallon Temp. Barrels in Pig Trap Steel Drip Pans	Ocotillo Environmental Services LLC	SUGS Permitted Landfarm at Jal #4 Gas Plant
Spent Antifreeze	Disposal Truck	Not stored on site	Quail Petroleum Services	Available Permitted Recycler
Solid Wastes	Dumpster	Dumpster	SUGS	Lea County Solid Waste Authority

1: Scrubber liquids are transported by either (depending on availability) Quality Transports, Chaparral Services, Riverside Trucking, FULCO Services, or Rapid Transports.

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#### **10.0 INSPECTION, MAINTENCE AND REPORTING**

In accordance with SUGS policy, Harroun and all other active compressor stations are inspected each working day (Monday-Friday) by an appropriately trained technician. This individual visually inspects the waste management systems, including the levels in all tanks and the presence of any liquids in any containment structures.

Based on the knowledge of the operations at Harroun, regular visits are scheduled for removal of wastes. Any apparent problems noted in daily inspections are notified immediately to the SUGS environmental director, who then dispatches the necessary employees, equipment and contractors to address the problem.

The compressor station is also monitored by telemetry (powered by solar batteries) to the SUGS control facility. This telemetry transmits operating parameters including system pressure, temperature, inlet and outlet flows, and other information. This provides an early warning in the event that any equipment is out of its operating parameters, allowing an immediate inspection if warranted.

Due to the non-discharge design of the system, no groundwater monitoring is required or employed at Harroun.

Current TCLP analyses of wastewaters from the compressor pad indicate that the water is nonhazardous. Compressor pad wastewater will be reanalyzed for TCLP parameters if significantly different materials (e.g., oils, antifreeze, soaps) are used on the pad to restablish the water's status.

#### **11.0 SPILL AND LEAK PREVENTION AND REPORTING**

As described in Section 11.0 above, the facility is inspected on a daily basis. Any spills will be addressed in accordance with NMOCD Rule 116 and 20.6.2.1203 NMAC.

#### **12.0 CLOSURE PLAN**

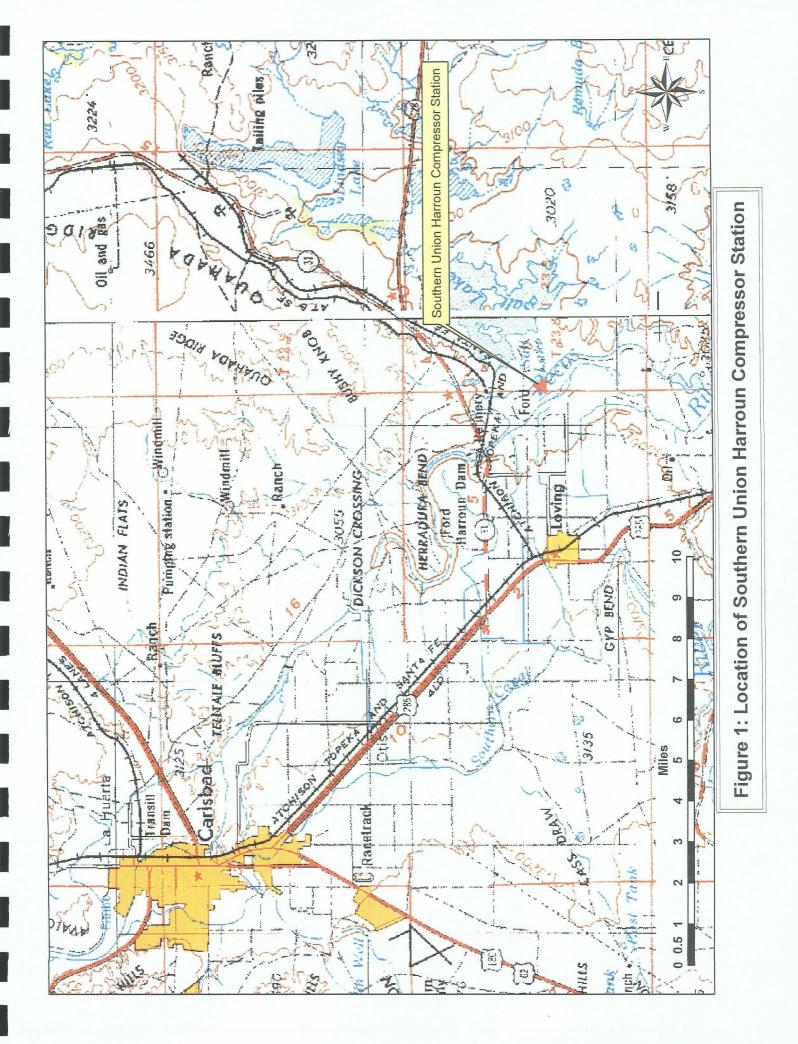
Upon removal from service, the Harroun facility will be closed by:

- Disconnect and close all pipelines, gas, electrical and other utilities,
- Dismantle and remove all equipment,
- Collect and analyze an appropriate number of soil samples to verify that no contaminated soils exist,
- Regrade and revegetate the site in accordance with any applicable bonds and/or other regulations.

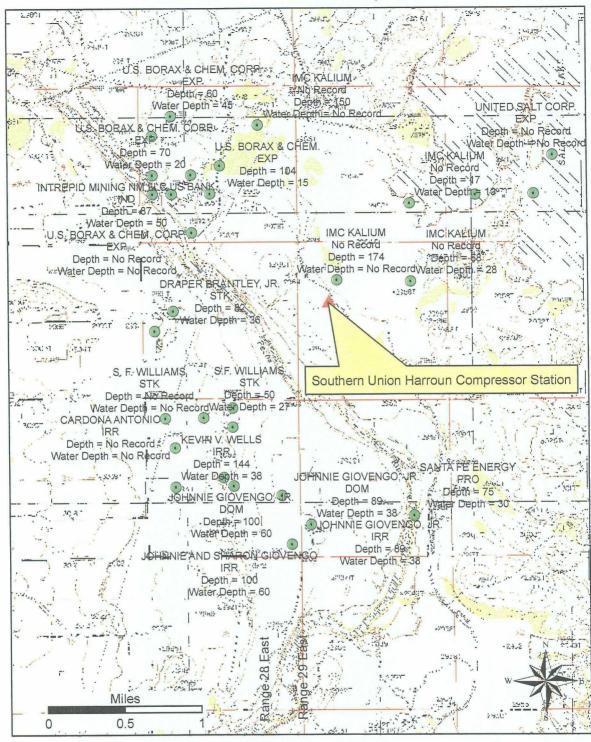
A report will be developed documenting the closure, and will be provided to NMOCD upon request.

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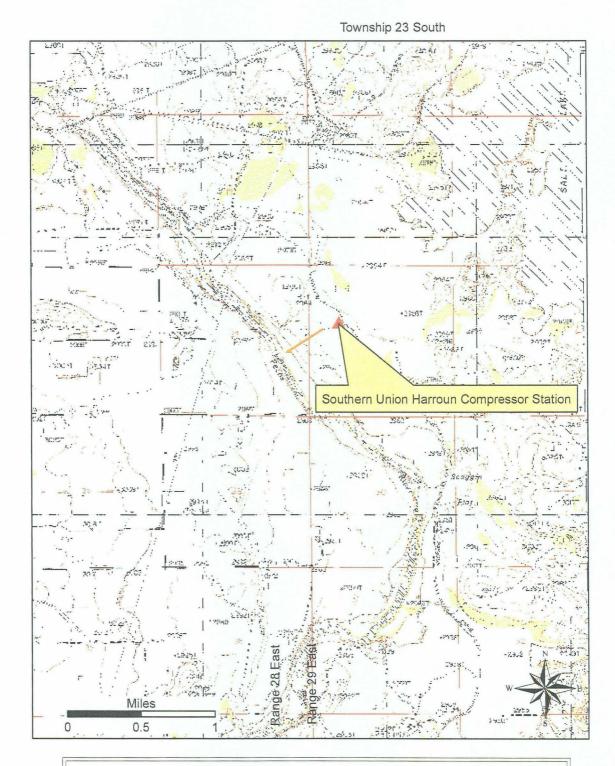
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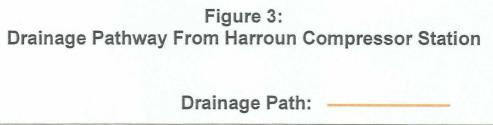


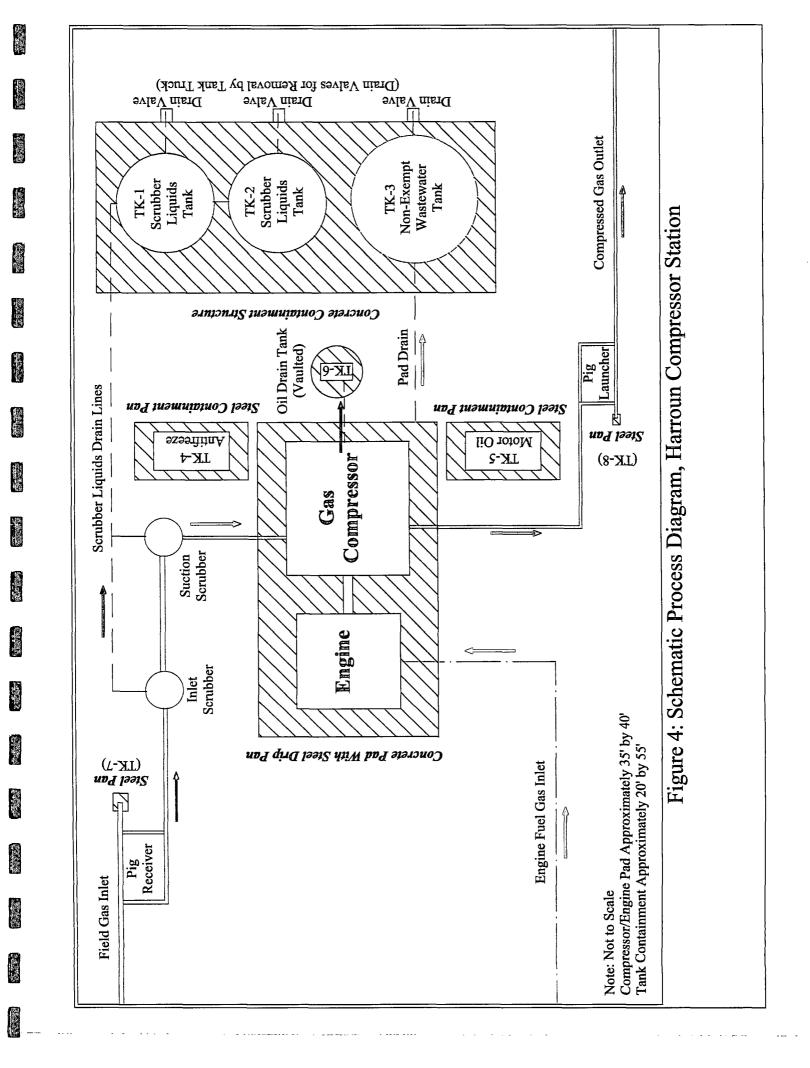
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# Figure 2: Water Wells in the Vicinity of the Harroun Compressor Station • Water Wells Listed in New Mexico State Engineer's Database







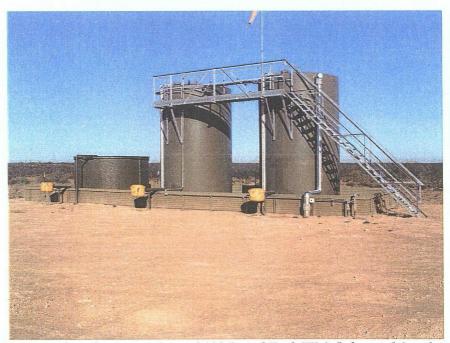


Figure 5: 210 Barrel Tanks TK-1, TK-2 and 100 Barrel Tank TK-3 (left to right) and steel secondary containment structure.



Figure 6: 1000 Gallon Steel Antifreeze Tank TK-4 and 1100 Gallon Steel Secondary Containment.

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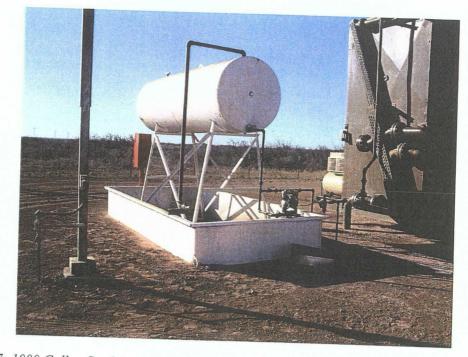


Figure 7: 1000 Gallon Steel Lubrication Oil Tank TK-5 and 1100 Gallon Steel Secondary Containment



Figure 8: Top Cover of Double Walled Fiberglass Vault Holding Waste Oil Tank TK-6

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Figure 9: TK-6 325 Gallon Poly Waste Oil Tank in Fiberglass Vault



Figure 10: Pig Waste Steel Containment TK-7

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Figure 11: Pig Waste Steel Containment TK-8 (far left end)

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# MATERIAL SAFETY DATA SHEETS

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MSDS# E-4550-B Praxair Material Safety Data Sheet

	1. Chemical Product a	nu Company 10	епинсаноп
Product Name:	Natural gas	Trade Name:	Natural gas
Product Use:	Heating fuel.		
Chemical Name:	Natural Gas, compressed	Synonym:	Methane natural gas
Chemical Formula:	Mixture of CH4, C2H6, C3H8, & C4H10	Chemical Famil	y: Hydrocarbons
Telephone:	Emergencies: * 1-800-363-0042	Supplier /Manufacture:	Praxair Canada Inc. 1 City Centre Drive Suite 1200 Mississauga, ON L5B 1M2
		Phone:	905-803-1600
		Fax:	905-803-1682

\*Call emergency numbers 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product. For routine information, contact your supplier or Praxair sales representative.

2. Composition and Information on Ingredients					
INGREDIENTS	% (VOL)	CAS NUMBER	LD50 (Species & Routes)	LC50 (Rat, 4 hrs.)	TLV-TWA (ACGIH)
Natural gas (predominantly methane)	100	8006-14-2	Not applicable.	Not available.	None established.

#### 3. Hazards Identification

#### **Emergency Overview**

DANGER! Flammable, high-pressure gas. May form explosive mixture with air. Can cause rapid suffocation. May cause dizziness and drowsiness. Self-contained breathing apparatus may be required by rescue workers.

ROUTES OF

Inhalation. Eye contact.

EXPOSURE:

THRESHOLD LIMIT VALUE: TLV-TWA Data from 2004 Guide to Occupational Exposure Values (ACGIH). TLV-TWAs should be used as a guide in the control of health hazards and not as fine lines between safe and dangerous concentrations.

### EFFECTS OF A SINGLE (ACUTE) OVEREXPOSURE:

INHALATION:	Asphyxiant. Effects are due to lack of oxygen. Moderate concentrations may cause headaches, drowsiness, dizziness, excitation, excess salivation, vomiting and unconciousness. Lack of oxygen can kill.
SKIN CONTACT:	
	No harmful effects expected from vapour.
SKIN ABSORPTION:	No evidence of adverse effects from available information.
SWALLOWING:	
	An unlikely route of exposure. This product is a gas at normal temperature and pressure.

#### EYE CONTACT:

Vapour may cause irritation.

#### EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE:

None.

OTHER EFFECTS OF OVEREXPOSURE: None known.

#### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

None known.

# SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION: None.

#### CARCINOGENICITY:

Not listed as carcinogen by OSHA, NTP or IARC.

#### 4. First Aid Measures

#### INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SKIN CONTACT:

Abrasions: clean with soap and water then bandage. Burns: seek medical attention.

#### SWALLOWING:

Not applicable (gas).

#### EYE CONTACT:

Flush with water. If irritation persists, call a physician.

#### NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of over-exposure should be directed at the control of symptoms and the clinical condition.

	5. Fire Fighting Measures						
FLAMMABLE :	Yes.	IF YES, UNDER WHAT CONDITIONS?			explosive mixtures with air and g agents.		
FLASH POINT (test method)	Not applic	able.	AUTOIGNITI TEMPERATU		482°C (899.6°F)		
FLAMMABLE LII IN AIR, % by vol		LOWER: 3.8		UPPE	ER: 17		

#### **EXTINGUISHING MEDIA:**

CO2, dry chemical, water spray or fog.

#### SPECIAL FIRE FIGHTING PROCEDURES:

DANGER! Evacuate all personnel from danger area. Immediately cool cylinders with water spray from maximum distance taking care not to extinguish flames. Remove ignition source if without risk. If flames are accidentally extinguished. Explosive re-ignition may occur; therefore, appropriate measures should be taken; e.g., total evacuation. Re-approach with extreme caution. Use self-contained breathing apparatus. Stop flow of gas if without risk while continuing cooling water spray. Remove all containers from area if without risk. Allow fire to burn out.

#### UNUSUAL FIRE AND EXPLOSION HAZARD:

Extremely flammable gas in presence of open flame and sparks. Slightly flammable in presence of heat.

Date: 10/15/2004

#### HAZARDOUS COMBUSTION PRODUCTS:

These products are carbon oxides (CO, CO2).

SENSITIVITY TO IMPACT:

Avoid impact against container.

SENSITIVITY TO STATIC DISCHARGE:

Possible.

#### 6. Accidental Release Measures

#### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

DANGER! Flammable, high-pressure gas. Forms explosive mixtures with air. Immediately evacaute all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if without risk. Reduce gas with fog or fine water spary. Shut off flow if without risk. Ventilate area or move cylinder to a well-ventilated area. Flammable gas may spread from leak. Before entering area, especially confied areas, check atmosphere with an appropriate device.

#### WASTE DISPOSAL METHOD:

Prevent waste from contaminating the surrounding environment. Keep personnel away. Discard and product, residue, disposable container, or liner in an environmentally acceptable manner, infull compliance with federal, provincial, and local regulations. If necessary, call your local supplier for assistance.

#### 7. Handling and Storage

#### PRECAUTIONS TO BE TAKEN IN STORAGE:

Store and use with adequate ventilation. Separate flammable cylinders from oxygen, chlorine, and other oxidizers by at least 6 m or use a barricade of non-combustible material. This barricade should be at least 1.5 m high and have a fire resistance rating of at least ½ hour. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Post "No Smoking or Open Flames" signs in storage and use areas. There must be no sources of ignition. All electrical equipment in storage areas must be explosion-proof. Storage areas must meet national electric codes for Class 1 hazardous areas. Store only where temperature will not exceed 52 C. Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.

#### PRECAUTIONS TO BE TAKEN IN HANDLING:

Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Open valve slowly. If valve is hard to open, discontinue use and contact your supplier. For other precautions, see Section 16.

For additional information on stroage and handling, refer to Compressed Gas Association (CGA) pamphlet P-1, Safe Handling of Compressed Gases in Containers, available from the CGA. Refer to Section 16 for the address and phone number along with a list of other available publications.

#### OTHER HAZARDOUS CONDITIONS OF HANDLING, STORAGE, AND USE:

Flammable high-pressure gas. Use only in a closed system. Use piping and equipment adequately designed to withstand pressures to be encountered. Use only spark-proof tools and explosion-proof equipment. Keep away from heat, sparks, and open flame. May form explosive mixtures with air. Ground all equipment. Gas can cause rapid suffocation due to oxygen deficiency. Store and use with adequate ventilation. Close valve after each use; keep closed even when empty. Prevent reverse flow. Reverse flow into cylinder may cause rupture. Use a check valve or other protective device in any line or piping from the cylinder. When returning cylinder to supplier, be sure valve is closed, then install valve outlet plug tightly. Never work on a pressurized system. If there is a leak, close the cylinder valve. Vent the system down in a safe and environmentally sound manner in compliance with all federal, provincial, and local laws; then repair the leak. Never place a compressed gas cylinder where it may become part of an electrical circuit.

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8. Exposure Controls/Personal Protection VENTILATION/ENGINEERING CONTROLS: LOCAL EXHAUST: An explosion-proof local exhaust system is acceptable	······
LOCAL EXHAUST: An explosion-proof local exhaust system is acceptable	
SPECIAL.	e. See
MECHANICAL (general): Inadequate. See SPECIAL.	
SPECIAL: Use only in a closed system.	
OTHER: None.	
PERSONAL PROTECTION:	
RESPIRATORY PROTECTION: Use respirable fume respirator or air supplied respirator working in confined space or where local exhaust or does not keep exposure below TLV. Select in accord the provincial regulations or guidelines. Selection sho based on the current CSA standards Z94.4, "Selection use of respirators". Respirators should be approved and MSHA.	ventilation ance with ould also be on, care and
SKIN PROTECTION: Wear work gloves when handling cylinders.	
EYE PROTECTION: Wear safety glasses when handling cylinders.	· · · · · · · · · · · · · · · · · · ·
Select in accordance with the current CSA standard "Industrial Eye and Face Protection", and any provinc regulations, local bylaws or guidelines.	
OTHER PROTECTIVE EQUIPMENT: Metatarsal shoes for cylinder handling. Protective clo needed. Cuffless trousers should be worn outside th Select in accordance with the current CSA standard "Protective Foot Wear", and any provincial regulation bylaws or guidelines.	e shoes. Z195,
9. Physical and Chemical Properties	

PHYSICAL STATE:	Gas. (Compressed Gas.)	FREEZING POINT:	Not available.	pH:	Not applicable.
BOILING POINT	-164°C (-263.2°F)	VAPOUR PRESSURE	Not applicable.	MOLECULAR WEIGHT:	17.66 g/mole
SPECIFIC GRAVITY: LIQUID ( Water = 1)	Not applicable.	SOLUBILITY IN WATER,	Very slightly solub	le in cold water.	
SPECIFIC GRAVITY: VAPOUR (air = 1)	0.55	EVAPORATION RATE (Butyl Acetate=1):	Not available.	COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not applicable.
VAPOUR DENSITY:	0.615	% VOLATILES BY VOLUME:	100% (v/v).	ODOUR THRESHOLD:	0.001 ppm

APPEARANCE & ODOUR: Colouriess.

Odour: Faint, disagreeable. (Slight.)

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MSDS# E-4550-B

Date: 10/15/2004

10. Stability and Reactivity		
STABILITY:	The product is stable.	
CONDITIONS OF CHEMICAL INSTABILITY:	Not available.	
INCOMPATIBILITY (materials to avoid):	Oxidizing agents in the presence of ignition source.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition or burning may produce carbon monoxide/carbon dioxide and possible trace amounts of sulphur dioxide and oxides of nitrogen.	
HAZARDOUS POLYMERIZATION:	Will not occur.	
CONDITIONS OF REACTIVITY:	None known.	

11. Toxicological Information

See section 3.

#### 12. Ecological Information

No adverse ecological effects expected. This product does not contain any Class I or Class II ozone-depleting chemicals. The components of this mixture are not listed as marine pollutants by TDG Regulations.

#### 13. Disposal Considerations

WASTE DISPOSAL Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier. METHOD:

#### 14. Transport Information

TDG/IMO SHIPPING Natural Gas, Compressed NAME:

HAZARD		IDENTIFI	CATION	PRODUCT RQ:
CLASS: CLASS Flammable	SS2.1: hable gas.	1971	100 L	
SHIPPING LA	ABEL(s):	Flammable gas		
PLACARD (w required):	hen	Flammable gas		

#### SPECIAL SHIPPING INFORMATION:

Cylinders should be transported in a secure position, in a well-ventilated vehicle. Cylinders transported in an enclosed, nonventilated compartment of vehicle can present serious safety hazards.

#### 15. Regulatory Information

The following selected regulatory requirements may apply to this product. Not all such requirements are identified. Users of this product are solely responsible for compliance with all applicable federal, provincial, and local regulations.

WHMIS (Canada) CLASS A: Compressed gas. CLASS B-1: Flammable gas.

#### **International Regulations**

EINECSNot available.DSCL (EEC)This product is not classified according to the EU regulations.International ListsNo products were found.

### 16. Other Information

# MIXTURES:

When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

#### HAZARD RATING SYSTEM:

#### HMIS RATINGS:

HEALTH 0 FLAMMABILITY 4 PHYSICAL HAZARD 0

#### STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:

THREADED:	0 - 3000 psig: CGA-350
PIN-INDEXED YOKE:	Not applicable.
ULTRA-HIGH-INTEGRITY	Not applicable.
CONNECTION:	

Use the proper CGA connections. **DO NOT USE ADAPTERS.** Additional limited-standard connections may apply. See CGA pamphlets V-1 and V-7 listed below.

Ask your supplier about free Praxair safety literature as referred to in this MSDS and on the label for this product. Further information about this product can be found in the following pamphlets published by the Compressed Gas Association, Inc. (CGA), 4221 Walney Road, 5th Floor, Chantilly, VA 20151-2923, Telephone (703) 788-2700, Fax (703) 961-1831, website: www.cganet.com.

AV-1 Safe Handling and Storage of Compressed Gas

P-1 Safe Handling of Compressed Gases in Containers

- P-14 Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres
- SB-2 Oxygen-Deficient Atmospheres
- V-1 Compressed Gas Cylinder Valve Inlet and Outlet Connections
- V-7 Standard Method of Determining Cylinder Valve Outlet Connections for Industrial Gas Mixtures
- -- Handbook of Compressed Gases, Fourth Edition

#### PREPARATION INFORMATION:

DEPARTMENT:	Safety and Environmental Services
<b>TELEPHONE:</b>	905-803-1600

MSDS# E-4550-B

Date: 10/15/2004

The opinions expressed herein are those of qualified experts within Praxair Canada Inc. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Praxair Canada Inc., it is the user's obligation to determine the conditions of safe use of the product.

Praxair Canada Inc. requests the users of this product to study this Material Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

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Praxair Canada Inc. 1 City Centre Drive Suite 1200 Mississauga, ON L5B 1M2 Page 7 of 7



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# **Material Safety Data Sheet**

# NATURAL GAS CONDENSATE

April 28, 1995

PHILLIPS PETROLEUM COMPANY Bartlesville, Oklahoma 74004 PHONE NUMBERS Emergency: (918) 661-8118 General MSDS Information: (918) 661-8327 For Additional MSDSs: (918) 661-5952

# A. Product Identification

Synonyms: Drip; Hydrocarbon gas drip; Gas drip Chemical Name: Natural gas condensate Chemical Family: Mixture Chemical Formula: Mixture CAS Reg. No.: 68919-39-1 Product No.: Not Established

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

# B. Components

Ingredients	CAS Number	By Wt.	OSHA PEL	ACGIH TLV
Hydrogen sulfide	7783-06-4	0-20	10 ppm	10 ppm
C2 Hydrocarbons (As ethane) Asphyxiant	Various	0 - 5	NE	Simple
C3 Hydrocarbons (As propane) Asphyxiant	Various	0-15	1000 ppm	Simple
C4 Hydrocarbons (As butane)	Various	0-45	800 ppm	800 ppm
C5 Hydrocarbons (As pentane)	Various	5-70	600 ppm	600 ppm
C6 Hydrocarbons (As n-hexane	e) Various	25-95	50 ppm(1	) 50 ppm(l)
may include: Cyclohexane	110-82-7	NE	300 ppm	300 ppm
C7 Hydrocarbons (As heptane)	Various	25-95	400 ppm	400 ppm
C8 Hydrocarbons (As octane)	Various	25-95	300 ppm	300 ppm
Aromatic Hydrocarbons	Various	0-10	NE	NE
may include: Benzene	71-43-2	NE	l ppm(2	) 10 ppm
Toluene	108-88-3	NE	100 ppm	100 ppm
Mixed xylene	2 1330-20-7	NE	100 ppm	100 ppm
Ethylbenzene	100-41-4	NE	100 ppm	100 ppm
(1) As n-Hexane. As Hexane isomers 500 ppm. (2) Areas exempted by the Benzene Standard, 29 CFR 1910.1028, will have a 10 ppm 8 hour TWA.				

# C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure below recommended levels.

Respiratory Protection: For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air supplied respirator. In case of spill or leak resulting in unknown concentrations, use NIOSH/MSHA approved supplied air respirator.

Eye Protection: Use chemical goggles.

Skin Protection: Use full-body, long-sleeved garments. Use polyvinyl alcohol or Buna-N gloves.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

# D. Handling and Storage Precautions

Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist, fume or dust. May be harmful. Proper personal protective equipment must be used when handling this chemical. Launder contaminated clothing before reuse. Wash thoroughly after handling. Use only with adequate ventilation. Do not swallow. May be aspirated into lungs.

Store in a well-ventilated area. Store in tightly closed container. Keep away from heat, sparks, and flames. Bond and ground during transfer.

# E. Reactivity Data

Stability: Conditions to Avoid: Incompatibility (Materials to Avoid):	
Hazardous Polymerization: Conditions to Avoid: Hazardous Decomposition Products:	Not Applicable

# F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

#### Acute Effects of Overexposure:

Eye: May cause irritation including pain, blurred vision,

redness, tearing and superficial corneal turbidity.

- Skin: May cause slight irritation. Extreme exposure may produce discoloration, muscle weakness, breathing difficulties and other central nervous system effects.
- Inhalation: Toxic by this route of exposure. May cause nausea, diarrhea, loss of appetite, dizziness, disorientation, headache, excitation, rapid respiration, drowsiness, labored breathing, anesthesia and other central nervous system effects. Hydrogen sulfide may cause lung paralysis and asphyxiation. Extreme overexposure may cause rapid unconsciousness and respiratory arrest.
  - Ingestion: May be mildly irritating to intestines. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

#### Subchronic and Chronic Effects of Overexposure:

Benzene has been designated as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), and the Occupational Safety and Health Administration (OSHA). Benzene may produce blood changes which include reduced platelets, reduced red blood cells, reduced white blood cells, aplastic anemia, and acute nonlymphocytic leukemia. Benzene has produced fetal death in laboratory animals and caused chromosome changes in humans and mutation changes in cells of other organisms.

Chronic high level n-hexane exposure damages the nervous system initially producing a lack of feeling in the extremities and possibly progressing to a more severe nerve damage.

Inhalation of high levels (1000 and 5000 ppm) of n-hexane has produced testicular damage in rats. Mice exposed to the same dose levels showed no testicular effects.

#### Other Health Effects:

The odor of hydrogen sulfide may not be recognized after prolonged inhalation due to paralysis of the sense of smell. Effects from inhaling the fume may lead to chronic bronchitis, respiratory irritation, increased loss of pulmonary function, and tearing of the eyes.

Some isoparaffins have produced kidney damage in male rats only. No comparable kidney disease is known to occur in humans.

#### Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	_X_	_x_	Toxic	х	
Suspect Carcinoger			Corrosive		
Mutagen	X		Irritant		
Teratogen			Target Organ Toxin	X	X
Allergic Sensitize	er		Specify - Nerve Toxin	n; Liver and	Kidney
Highly Toxic			Toxin; Lung	J-Aspiration	Hazard

#### First Aid and Emergency Procedures:

- Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.
- Skin: Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.
- Inhalation: Immediately remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

# G. Physical Data

Appearance:Colorless to dark liquid<br/>Odor:Rotten egg odor if hydrogen<br/>sulfide is present.Boiling Point:Not Established<br/>Vapor Pressure:Vapor Density (Air = 1):>1<br/>Solubility in Water:Solubility in Water:Negligible<br/>Not Specific Gravity (H2O = 1):Percent Volatile by Volume:100<br/>Viscosity:Evaporation Rate (Butyl Acetate = 1):>1<br/>Viscosity:

# H. Fire and Explosion Data

Flash Point (Method Used): <-100F (<-73C)(Estimated)</pre> Flammable Limits (% by Volume in Air): LEL - Not Established UEL - Not Established Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO2) Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Shut off source, if possible. Water fog or spray may be used to cool exposed equipment and containers Allow fire to burn until gas flow is shut off, if possible. Fire and Explosion Hazards: Carbon oxides and possibly sulfur oxides formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site.

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# I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled: Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible. Protect from ignition. Ventilate area thoroughly.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations): Incinerate or otherwise manage at a RCRA permitted waste management facility.

# J. DOT Transportation

For Natural Gas Condensate with an IBP < 68F Shipping Name: Hydrocarbon gases mixtures, liquefied, n.o.s. (contains Propanes and Butanes) Hazard Class: 2.1 (Flammable gas) ID Number: UN 1965 Packing Group: Not applicable Marking: Hydrocarbon gases mixtures, liquefied,, n.o.s. (contains Propanes and Butanes), UN 1965, RQ\* Label: Flammable gas Placard: Flammable gas/1965 Hazardous Substance/RQ: Benzene/10#; Toluene/1000#; Cyclohexane/1000#; Xylene/1000#; Ethylbenzene/1000# Shipping Description: Hydrocarbon gases mixtures, liquefied, n.o.s. (contains Propanes and Butanes), 2.1 (Flammable gas), UN 1965, RQ\* Packaging References: 49 CFR 173.304, 173.306, 173.314, 173.315

\*Enter the letters "RQ" and the name of the hazardous substance as shown only if the hazardous substance is present in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) shown for the hazardous substance.

For Natural Gas Condensate with an IBP > 68F Shipping Name: Natural gasoline Hazard Class: 3 (Flammable liquid) ID Number: UN 1257 Packing Group: I (if IBP < 95F) or II (if IBP > 95F) Marking: Natural gasoline, Un 1257, RQ\* Label: Flammable liquid Placard: Flammable liquid/1257 Hazardous Substance/RQ: Benzene/10#; Toluene/1000#; Cyclohexane/1000#; Xylene/1000#; Ethylbenzene/1000# Shipping Description: Natural gasoline, 3 (Flammable liquid), UN 1257, PG I or II, RQ\*

\*Enter the letters "RQ" and the name of the hazardous substance as shown only if the hazardous substance is present in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) shown for the hazardous substance.

# K. RCRA Classification - Unadulterated Product as a Waste

Ignitable (D001)

Prior to disposal, consult your environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

# L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

# M. Hazard Classification

\_X\_ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

	Combustible Liquid		Flammable Aerosol		Oxid
izer					
X_	Compressed Gas Flammable Gas Flammable Liquid Flammable Solid	_x_	Explosive Health Hazard (Section F) Organic Peroxide		Pyrophoric Unstable Water Reactive
	Based on information	nroce	antly available this produ	at d	oes not meet

\_\_\_\_\_Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

# N. Additional Comments

#### SARA 313

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B).

Hexane Benzene Toluene Mixed xylene Ethylbenzene Cyclohexane

Phillips Petroleum Company (references to Phillips Petroleum Company or Phillips includes its divisions, affiliates and subsidiaries) believes that the information contained herein (including data and statements) is accurate as of the date hereof. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE INFORMATION HEREIN PROVIDED. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information referred to herein are beyond the control of Phillips, Phillips expressly disclaims any and all liability as to any results obtained or arising from any use of the product or such information. No statement made herein shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.



Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 1 of 8

# MATERIAL SAFETY DATA SHEET

**SECTION 1** 

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Product Description: Base Oil and Additives Product Code: 15036 Intended Use: Engine oil

#### COMPANY IDENTIFICATION

Supplier:

Canada Imperial Oil Limited, An Affliate of Exxon Mobil Corporation P.O. Box 4029, Station A Calgary, ALBERTA. T2P 3M9 Canada 24 Hour Health Emergency 519-339-2145 Transportation Emergency Phone 519-339-2145 Supplier General Contact 1-800-567-3776

**SECTION 2** 

#### **COMPOSITION / INFORMATION ON INGREDIENTS**

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3

1. M.

#### HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

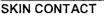
NFPA Hazard ID:	Health:	0	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health:	0	Flammability: 1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4	FIRST AID MEASURES	

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.



Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

ExonMobil

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

# SECTION 5 FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Sulfur oxides, Incomplete combustion products, Oxides of carbon, Aldehydes, Smoke, Fume

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: 200C (392F) [ ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: 315°C (599°F)

#### **SECTION 6**

# ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other

#### Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 3 of 8

shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### SECTION 7 HANDLING AND STORAGE

#### HANDLING

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

#### STORAGE

Do not store in open or unlabelled containers.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits/standards for materials that can be formed when handling this product:** When mists / aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL, 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

# PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.



#### Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 4 of 8

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

#### **SECTION 9**

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#### PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

#### **GENERAL INFORMATION**

Physical State:LiquidForm:ClearColor:AmberOdor:CharacteristicOdor Threshold:N/D

#### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.86 Flash Point [Method]: 200C (392F) [ASTM D-92] .... Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: 315°C (599°F) Boiling Point / Range: 340C (644F) - 600C (1112F) Vapor Density (Air = 1): > 2 at 101 kPa Vapor Pressure: [N/D at 20 °C] | < 1 kPa (7.5 mm Hg) at 38C Evaporation Rate (n-butyl acetate = 1): < 0.1 pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 Solubility in Water: Negligible Viscosity: >20 cSt (20 mm2/sec) at 40 C | 10.7 cSt (10.7 mm2/sec) at 100C Oxidizing Properties: See Sections 3, 15, 16.

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Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 5 of 8

#### OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A Pour Point: -30°C (-22°F) DMSO Extract (mineral oil only), IP-346: < 3 %wt

#### **SECTION 10**

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### STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

#### SECTION 11

#### TOXICOLOGICAL INFORMATION

# ACUTE TOXICITY

ACUTE TOXICITY	
Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

#### CHRONIC/OTHER EFFECTS

#### For the product itself:

Diesel engine oils: Not carcinogenic in animals tests. Used and unused diesel engine oils did not produce any carcinogenic effects in chronic mouse skin painting studies.

Oils that are used in gasoline engines may become hazardous and display the following properties: Carcinogenic in animal tests. Caused mutations in vitro. Possible allergen and photoallergen. Contains polycyclic aromatic compounds (PAC) from combustion products of gasoline and/or thermal degradation products.

Contains:



## Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 6 of 8

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

	REGULATORY LISTS SE	ARCHED
1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

## SECTION 12

## **ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

## ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

#### MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

# PERSISTENCE AND DEGRADABILITY

## **Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

## **BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

## **SECTION 13**

## **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

## **DISPOSAL RECOMMENDATIONS**

Dispose of waste at an appropriate treatment & disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration.

# **REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous

waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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SECTION 14				1 11 16 161		
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LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

**SECTION 15** 

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**REGULATORY INFORMATION** 

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: DSL, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

# The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations	
DIPHENYLAMINE	122-39-4	5, 9, 18	
ZINC ALKYLDITHIOPHOSPHATE	68649-42-3	15	

	REGULAT	ORY LISTS SEARCHED	
1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK



Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 8 of 8

4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

# SECTION 16

OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

## THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

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# MATERIAL SAFETY INFORMATION SHEET

SECT	TION 1: F	PRODUCT AND CO	OMPANY IDENTIFICATION		
PRODUCT NAME:	USED OIL				
SYNONYMS:	Waste oil; Used lubricating oil; Oil and water mixture				
PRODUCT PART NUMBER(S):	Not applicable.				
PRODUCT USE:	Oil or water mixture for re-refining or reprocessing. If this product is used in combination with other products, refer to the Material Safety Data Sheets for those products.				
These numbers are fo	or M	4-HOUR EMERGE EDICAL:	NCY PHONE NUMBERS TRANSPORTATION (SPILL):		
emergency use only. you desire non-emerg product information, please call a phone number listed below.		800-752-7869	1-800-468-1760		
MANUFACTURER/ SUPPLIER: Safety-Kleen Systems, Inc. 5400 Legacy Drive Cluster II, Building 3 Plano, Texas 75024 USA 1-800-669-5740 www.Safety-Kleen.com					
MANUFACTURER/ SL	JPPLIER:	5400 Legacy Driv Cluster II, Buildin Plano, Texas 75 USA	ve g 3 024		
		5400 Legacy Driv Cluster II, Buildin Plano, Texas 75 USA <b>1-800-669-5740</b> www.Safety-Kle	ve g 3 024		
	ATION: 1	5400 Legacy Driv Cluster II, Buildin Plano, Texas 75 USA 1-800-669-5740 www.Safety-Kle	ve g 3 024 en.com		
TECHNICAL INFORM	<b>ATION: 1</b> R: 81451	5400 Legacy Driv Cluster II, Buildin Plano, Texas 75 USA 1-800-669-5740 www.Safety-Kle	/e g 3 024 en.com ess 1 then 1 then Extension 7500		

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<u>NT%</u>	NAME	SYNONYM	CAS NO.	TWA	STEL	TWA	STEL	LD <sup>a</sup>	<u>rc</u> p
30 to 100	Lubricating oils, used	Used oil	70514-12-4	N. Av.	N. Av.	N. Av.	N. Av.	<u>N.</u> Av.	N. AV
0 to 20*	Water/solids	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av
0 to 10*	Hydrocarbon solvents. May include gasoline, diesel fuel, jet fuel, mineral spirits, etc.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av
D to 1.5*	Metals. May include lead, iron, zinc, copper, chromium, arsenic, nickel, and others: each below 1.0 WT%.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av
0 to 1.0*	Polynuclear aromatics. May include naphthalene, fluoranthene, phenanthrene, pyrene, and others: each below 0.3 WT%.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	Ν. Αν.	N. Av.	Ν. Αν

# SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

# APPEARANCE

Liquid, black and viscous (thick), petroleum odor.

WARNING! PHYSICAL HAZARDS Combustible liquid.

# **HEALTH HAZARDS**

May be harmful if inhaled. May be harmful if absorbed through skin. May be harmful or fatal if swallowed. May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. Suspect cancer hazard. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. Contains material which can cause birth defects. Contains material which can cause lung, liver, kidney, skin, and/or central nervous system damage.

## ENVIRONMENTAL HAZARDS

Product may be toxic to fish, plants, wildlife, and/or domestic animals.

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	ALTH EFFECTS vary depending on material composition. Typical effects may
include:	
INHALATION (BREATHING):	High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.
EYES:	May cause irritation.
SKIN:	May cause irritation. Product may be absorbed through the skin and cause harm as noted under INHALATION (BREATHING).
INGESTION (SWALLOWING	May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under <b>INHALATION (BREATHING)</b> . Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.
MEDICAL CON AGGRAVATED EXPOSURE:	
CHRONIC:	Prolonged or repeated inhalation may cause oil pneumonia, lung tissue inflammation, fibrous tissue formation, and/or toxic effects as noted under <b>INHALATION (BREATHING)</b> . Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).
CANCER INFORMATION	<ul> <li>This product contains mineral oils, untreated or mildly treated, which can</li> <li>cause cancer. This product may contain hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics which can cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see SECTION 11: CARCINOGENICITY.</li> </ul>
	IVIRONMENTAL EFFECTS toxic to fish, plants, wildlife, and/or domestic animals.

Also see SECTION 12: ECOLOGICAL INFORMATION.

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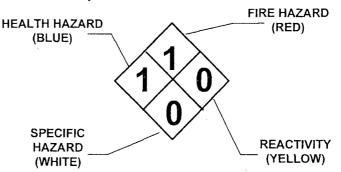
	SE	CTION 4: FIRST AID MEASURES			
INHALATION: (BREATHING)	is difficult, g personnel.	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.			
EYES:	exposure in	If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.			
SKIN:		Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.			
INGESTION: (SWALLOWING)	Do NOT induce vomiting. Immediately get medical attention. Call 1-800-752-7869 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.				
NOTE TO PHYSICIANS:	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-752-7869 for additional information.				
	SECT	ION 5: FIRE FIGHTING MEASURES			
FLASH POINT:		>200°F (93°C) (minimum) Pensky-Martens Closed Cup			
FLAMMABLE LIM	ITS IN AIR:	Not available.			
AUTOIGNITION TEMPERATURE:		Not available.			
HAZARDOUS CO PRODUCTS:	MBUSTION	Decomposition and combustion materials may be toxic. Burning may produce phosgene gas, nitrogen oxides, carbo monoxide, and unidentified organic compounds.			
CONDITIONS OF FLAMMABILITY:		Heat, sparks, or flame. Product may burn but does not ignite readily.			
EXTINGUISHING	MEDIA:	Use carbon dioxide, regular foam, dry chemical, water spray, or water fog.			

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NFPA 704 HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS: Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface waters and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION.** 

	SECTION 7: HANDLING AND STORAGE
HANDLING:	Keep away from heat, sparks, or flame. Where flammable mixtures may b present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, storage tanks, tanker trucks, and rail tank cars should be grounde and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.
SHIPPING AND STORING:	Keep container tightly closed when not in use and during transport. Do no pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other source of ignition. Empty product containers may retain product residue and can be dangerous. See <b>SECTION 14: TRANSPORT INFORMATION</b> for Packing Group information.
SEC	TION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS:	Use general ventilation, process enclosures, local exhaust ventilation, or other engineering controls to control air-borne levels. Where explosive mixtures may be present, equipment safe for such locations should be used.
PERSONAL PRO RESPIRATORY PROTECTION:	<b>TECTIVE EQUIPMENT</b> A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.
EYE PROTECTION:	Wearing chemical goggles is recommended. Contact lens may be worn with eye protection.
SKIN PROTECTION:	Where prolonged or repeated skin contact is likely, wear neoprene, nitrile (4 mil minimum), PVC (polyvinyl chloride), or equivalent protective gloves; wearing natural rubber or equivalent gloves is not recommended.
	When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing.
	To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots,

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PERSONAL HYGIENE:	eating, drink and protecti and/or prote	ughly with soap and water after handling product and before king, or using tobacco products. Clean affected clothing, shoes, ve equipment before reuse. Discard affected clothing, shoes, ective equipment if they cannot be thoroughly cleaned. Discard les, such as shoes, saturated with the product.
PROTECTIVE should be early a s		and splashes are likely, facilities storing or using this product quipped with an emergency eyewash and shower, both ith clean water, in the immediate work area.
	SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE APPEARANCE, A	•	Liquid, black and viscous (thick), petroleum odor.
ODOR THRESHO	LD:	Not available
MOLECULAR WE	IGHT:	Not applicable.
SPECIFIC GRAVI	TY:	0.8 to 1.0 at 60°F (15.6°C) (water = 1)
DENSITY:		6.7 to 8.3 LB/US gal (800 to 1000 g/l) (approximately)
VAPOR DENSITY	:	greater than 1 (air = 1) (based on kerosene)
VAPOR PRESSUR	RE:	Not available.
BOILING POINT:		Not available.
FREEZING/MELTI	NG POINT:	Not available.
pH:		Not applicable.
EVAPORATION R	ATE:	less than 1 (butyl acetate = 1)
SOLUBILITY IN W	ATER:	Slight.
FLASH POINT:		>200°F (93°C) (minimum) Pensky-Martens Closed Cup
FLAMMABLE LIM	ITS IN AIR:	Not available.
AUTOIGNITION TEMPERATURE:		Not available.

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	SECTION 10: STABILITY AND REACTIVITY
STABILITY:	Stable under normal temperatures and pressures. Avoid heat, sparks, flame.
INCOMPATIBILITY:	Avoid acids, alkalies, oxidizing agents, reducing agents, reactive halogens, or reactive metals.
REACTIVITY:	Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal temperatures and pressures. Also see SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.
	SECTION 11: TOXICOLOGICAL INFORMATION
SENSITIZATION:	Based on best current information, there may be known human sensitization associated with this product.
MUTAGENICITY:	Based on best current information, there may be mutagenicity associated with this product.
CARCINOGENICITY:	Mineral oils, untreated or mildly treated are listed by IARC as a known carcinogen. Mineral oils, untreated or mildly treated are classified by NTP as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.
	There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are listed by OSH/ as known carcinogens. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are listed by IARC as known, probable, or possible carcinogens. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are classified by NTP as known carcinogens or as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are recognized by ACGIH as confirmed or suspected human carcinogens.
	Also see SECTION 3: CANCER INFORMATION
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REPRODUCTIVE TOXICITY:	Based on best current information, there may be reproductive toxicity associated with this product.
TERATOGENICITY:	Based on best current information, there may be teratogenicity associated with this product.
TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):	Based on best current information, there may be toxicologically synergistic products associated with this product.
	SECTION 12: ECOLOGICAL INFORMATION
ECOTOXICITY:	Not available.
OCTANOL/WATER PARTITION COEFFIC	CIENT: Not available.
VOLATILE ORGANIC COMPOUNDS:	Not available. As per 40 CFR-Part 51.100(s).
	SECTION 13: DISPOSAL CONSIDERATIONS
also apply to empty co	e with federal, state, provincial, and local regulations. Regulations may ontainers. The responsibility for proper waste disposal lies with the owner Safety-Kleen regarding proper recycling or disposal.
	SECTION 14: TRANSPORT INFORMATION
DOT: N	ot regulated.
TDG: N	ot regulated.
EMERGENCY RESPO GUIDE NUMBER:	DNSE Not applicable. Reference North American Emergency Response Guidebook
	SECTION 15: REGULATORY INFORMATION
USA REGULATIONS SARA SECTIONS	Based on the ingredient(s) listed in <b>SECTION 2</b> , this product does not contain any "extremely hazardous substances" listed pursuant to Title II

SARA SECTIONSSara Section any "extremely hazardous substances" listed pursuant to Title III302 AND 304:of the Superfund Amendments and Reauthorization Act of 1986 (SARA)Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix<br/>A and B.

**SARA SECTIONS** This product poses the following physical and health hazards as

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Section 2

	SECTION 16: OTHER INFORMATION
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):	Not available.
CANADIAN REGULA WHMIS:	TIONS Not regulated
CALIFORNIA:	This product is not for sale or use in the State of California.
TSCA:	Not available.
CERCLA:	This product may contain "hazardous substances" listed pursuant to Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.
SARA SECTION 313:	This product may contain "toxic" chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.
311 AND 312:	defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard

# SECTION 16: OTHER INFORMATION

**REVISION INFORMATION:** 

Update to Section 2.

# LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product as supplied to the user.



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MSDS Number: E5125 * * * * * Effective Date: 11/09/06 *	* * * * * Supercedes: 03/15/04		
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- 10			
		24 Hour Emergency Telephone 908-855-2151 CHEMTREC 1400-424-8300	
N	ASDS Material Safety Data Sheet	NECCON RESOURCE IN CANNON CANUICE, STA 1994-6445	
		Ovente U.S. and Canada Chamiles: 703-527-3897	
	From: MallinckrodtBaber, Inc. Mallinckrodt J. Baker 222 Rød Echool Lane Philipaburg, NJ 08665	NOTE, CHENTER, CAREFE, CAREFEL et d'Assendé Songonna Lantes et angung support sobre MARCON d'Anne d'Acteurs de energe Con- tro-eng à los d'asse les assenses d'antéres conteng à los d'asse les assenses d'antéres conteng d'anne als	
	All non a chargency curricities should be deacted to Ducather Service : I	e00 557-2537) to: assessment.	-
a service a provinging the first start of the first start of the service of the service of the service start of the service start of the service of the service start of the			
	ETHYLENE GL		

#### 1. Product Identification

Synonyms: 1,2-Ethanediol; glycol; 1,2-Dihydroxyethane; Ethylene Alcohol; Ethulene Dihydrate CAS No.: 107-21-1 Molecular Weight: 62.07 Chemical Formula: CH2OHCH2OH Product Codes: J.T. Baker: 5387, 5845, 9140, 9298, 9300, 9346, 9356, L715 Mallinckrodt: 5001, 5037

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethylene Glycol	107-21-1	99 - 100%	Yes

#### 3. Hazards Identification

#### Emergency Overview

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION, MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

#### SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES Storage Color Code: Green (General Storage)

## Potential Health Effects

#### Inhalation:

Vapor inhalation is generally not a problem unless heated or misted. Exposure to vapors over an extended time period has caused throat irritation and headache. May cause nausea. vomiting, dizziness and drowsiness. Pulmonary edems and central nervous system depression may also develop. When heated or misted, has produced tapid, involuntary eye movement and coma.

Ingestion:

Initial symptoms in massive dosage parallel alcohol intoxication, progressing to CNS depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow. Lethal dose in humans; 100 ml (3-4 ounces). Skin Contact:

Minor skin irritation and penetration may occur

Eye Contact:

Splashes may cause irritation, pain, eye damage. Chronic Exposure:

Repented small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus. Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders. eye problems, or impaired liver, kidney, or respiratory function may be more susceptible to the effects of this substance.

#### 4. First Aid Measures

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. Skin Contact:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper cyclids occasionally. Get medical attention immediately

Note to Physician:

# http://www.jtbaker.com/msds/englishhtml/E5125.htm

Give sodium bicarbonate intravenously to treat acidosis. Urinalysis may show low specific gravity, proteinuria, pyuria, cylindruria, hematuria, calcium oxide, and hippuric acid crystals. Ethanol can be used in antidotal treatment but monitor blood glucose when administering ethanol because it can cause hypoglycemia. Consider infusion of a diuretic such as mannitol to help prevent or control brain edema and hemodialysis to remove ethylene glycol from circulation.

#### 5. Fire Fighting Measures

#### Fire:

Flash point: 111C (232F) CC Autoignition temperature: 398C (748F) Flammable limits in air % by volume:

lel: 3.2; uel: 15.3

Slight to moderate fire hazard when exposed to heat or flame Explosion:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Containers may explode when involved in a fire.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

#### Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Toxic gases and vapors may be released if involved in a fire.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., verniculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

#### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and oxidizing materials. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

#### Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL): 50 ppm Ceiling

-ACGIH Threshold Limit Value (TLV): 50 ppm Ceiling (vapor)

#### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

#### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit is exceeded, a half-face respirator supplied by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH 1900 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH 1910 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing. Eve Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

Appearance: Clear oily liquid Odor: Odorless Solubility: Miscible in water. Specific Gravity: ി @20C/4C oH: No information found % Volatiles by volume @ 21C (70F); 100 **Boiling Point:** 197.6C (388F) Melting Point: -13C (9F) Vapor Density (Air=1): 2.14 Vapor Pressure (mm Hg): 0.06 @ 20C (68F) Evaporation Rate (BuAc=1): No information found

#### 10. Stability and Reactivity

#### Stability:

Stable under ordinary conditions of use and storage. Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization:

#### Will not occur. Incompatibilities:

Strong exclusions agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid. Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212F(100C) with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate. Conditions to Avoid:

Heat, flames, ignition sources, water (absorbs readily) and incompatibles

#### **11. Toxicological Information**

#### **Toxicological Data:**

Oral rat LDS0: 4700 mg/kg; skin rabbit LD50: 9530 mg/kg. Irritation - skin rabbit: 555mg(open), mild; eye rabbit: 500mg/24H, mild. Investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals.

\Cancer Lists\			
	NT P	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Ethylene Glycol (107-21-1)	No	No	None

#### 12. Ecological Information

#### Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l.

#### **13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements,

#### 14. Transport Information

Not regulated

#### 15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
Ethylene Glycol (107-21-1)				Yes	
	2\				
Ingredient		Korea	DSL		Phil.
Ethylene Glycol (107-21-1)		Yes		No	
\Federal, State & International Re	- SAR	A 302-		SAR	A 313
Ingredient					mical Catg.
Ethylene Glycol (107-21-1)				5	
\Federal, State & International Re	egulat	ions -		2\ 	
Ingredient			261.3	3 8	(d)
Ethylene Glycol (107-21-1)	5000		No		

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

http://www.jtbaker.com/msds/englishhtml/E5125.htm

#### 16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning: WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION, MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

Label Precautions: Do not breathe vapor or mist.

Use only with adequate ventilation.

Keep container closed. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If swallowed, give water or milk to drink and induce vomiting. Never give anything by mouth to an unconscious person. In all cases call a physician.

**Froduct** Use

Laboratory Reagent. Revision Information: No Information Found.

Disclaimer:

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Prepared by: Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

http://www.jtbaker.com/msds/englishhtml/E5125.htm

## 3/29/2007

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SEC	TION 1: PRODUCT AND C	OMPANY IDENTIFICATION		
PRODUCT NAME:	USED ANTIFREEZE			
SYNONYMS:	1,2-Ethanediol; 1,2-Ethyle	ne glycol; 2-Hydroxyethanol; Ethylene alcohol		
PRODUCT CODE:	Prefix 95P	Prefix 95P		
PRODUCT USE:	Used automotive coolant. If this product is used in co Material Safety Data Shee	ombination with other products, refer to the t for those products.		
These numbers are emergency use only	for MEDICAL:	ENCY PHONE NUMBERS TRANSPORTATION (SPILL):		
	rgency 1-800-752-7869 ,	1-800-468-1760		
SUPPLIER: Safety-Kleen 5400 Legacy Drive Cluster II, Building 3 Plano, Texas 75024 USA 1-800-669-5740				
	Plano, Texas  75024 USA			
TECHNICAL INFORM	Plano, Texas  75024 USA	ess 1 then Enter 7500		
TECHNICAL INFORI	Plano, Texas 75024 USA 1-800-669-5740 MATION: 1-800-669-5740 Pt	ress 1 then Enter 7500 ISSUE: February 20, 2003		
	Plano, Texas 75024 USA <b>1-800-669-5740</b> MATION: <b>1-800-669-5740</b> Pi ER: 82912			

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# SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

				<u>OSHA</u>	PEL**	ACGI	<u>H TLV<sup>®</sup></u>		
<u>WT%</u>	NAME	SYNONYM	CAS NO.	TWA	STEL	TWA	STEL	LD <sup>a</sup>	LCb
30-87	Water	N.Av.	7732-18-5	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.
2-68	Ethylene glycol	1,2-Ethanediol; 1,2- Dihydroxyethane	107-21-1	N.Av.	N.Av.	N.Av.	N.Av.	4700 mg/kg (9530 uL/kg) <sup>c</sup>	10876 mg/kg
4-44	1,2-Propylene glycol	N.Av.	57-55-6	N.Av. d	N.Av.	N.Av.	N.Av.	20 gm/kg (20800 mg/kg) °	N.Av.
1-2	Diethylene glycol	2,2'-oxybis-ethanol	111-46-6	N.Av. <sup>e</sup>	N.Av.	N.Av.	N.Av.	12565 mg/kg (11890 mg/kg) <sup>c</sup>	N.Av.

<sup>a</sup>OshA Final PEL Valle (Enorceable). Some States have adopted more stingent values <sup>b</sup>Inhalation-Rat LC<sub>50</sub> <sup>a</sup>Oral-Rat LD<sub>50</sub> <sup>c</sup>Skin-Rabbit LD<sub>50</sub>

<sup>d</sup>AIHA recommended TWA 50 ppm <sup>e</sup>AIHA recommended TWA 10mg/m<sup>3</sup>

# SECTION 3: HAZARDS IDENTIFICATION

# EMERGENCY OVERVIEW

APPEARANCE Liquid, green, sweet odor. Syrupy.

## DANGER!

See al

## **HEALTH HAZARDS**

May be harmful if inhaled. May be fatal if swallowed.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. Contains material which may cause birth defects. Contains material which may cause lung, kidney, liver, central nervous system, and eye damage.

# POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): This product is not likely to present an inhalation hazard at normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may cause liver, lung, and kidney damage. High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

**EYES:** May cause irritation. May cause inflammation of the iris, ciliary body, and the membrane lining the eyelids and covering the eyeball (conjunctivitis). May cause corneal damage.

**SKIN:** May cause irritation. Not likely to be absorbed through the skin in harmful amounts.

INGESTION<br/>(SWALLOWING):May be fatal if swallowed. The estimated lethal dose is 100 ml (3.4<br/>ounces). May damage lung, liver, and kidneys. May cause throat irritation,<br/>nausea, vomiting, central nervous system effects as noted under<br/>INHALATION (BREATHING), unconsciousness, coma, and death.<br/>Breathing product into the lungs during ingestion or vomiting may cause<br/>lung injury and possible death.

MEDICAL CONDITIONSIndividuals with pre-existing liver, kidney, respiratory tract (nose,<br/>throat, and lungs), central nervous system, eye, and/or skin<br/>disorders may have increased susceptibility to the effects of<br/>exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under INHALATION (BREATHING). Prolonged or repeated eye contact may cause blindness. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated exposure may have reproductive toxicity, teratogenic, or mutagenic effects.

CANCER No known carcinogenicity. For more information, see SECTION 11: INFORMATION: CARCINOGENICITY.

# POTENTIAL ENVIRONMENTAL EFFECTS

Not available. Also see SECTION 12: ECOLOGICAL INFORMATION.

	SECTION 4: FIRST AID MEASURES
INHALATION (BREATHING):	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
EYES:	If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.
SKIN:	Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.
INGESTION (SWALLOWING):	Do NOT induce vomiting. Immediately get medical attention. Call 1-800-752-7869 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.
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Treat symptomatically and supportively. Administration of gastric lavage, if NOTE TO warranted, should be performed by qualified medical personnel. PHYSICIANS: Treatment may vary with condition of victim and specifics of incident. Call 1-800-752-7869 for additional information. Ethylene glycol is metabolized by alcohol dehydrogenase to various metabolites including glycoaldehyde, glycolic acid, and oxalic acid. The signs and symptoms in ethylene glycol poisoning are those of metabolic acidosis, central nervous system depression, and kidney damage. The currently recommended medical management of ethylene glycol poisoning includes elimination of ethylene glycol and metabolites, correction of metabolic acidosis, and prevention of kidney injury. As a competitive substrate for alcohol dehydrogenase, ethanol is antidotal when given in the early stages of intoxication because it blocks the formation of nephrotoxic metabolites. A more effective intravenous antidote is 4-methylpyrazole, a potent inhibitor of alcohol dehydrogenase, which effectively blocks the formation of toxic metabolites. Pulmonary edema with hypoxia has been described in a number of patients following ethylene glycol poisoning. Respiratory support with mechanical ventilation and positive end expiratory pressure may be required. There may be cranial nerve involvement in the later stages of toxicity from swallowing ethylene glycol. Effects have been reported presenting bilateral facial paralysis, diminished hearing, and dysphagia.

# SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:

>200°F (>93.3°C)

FLAMMABLE LIMITS IN AIR:

LOWER: 3.2 VOL% (ethylene glycol)

organic compounds.

readily.

748°F (398°C) (ethylene glycol)

**UPPER:** 15.3 VOL% (ethylene glycol)

AUTOIGNITION TEMPERATURE: HAZARDOUS COMBUSTION PRODUCTS:

CONDITIONS OF FLAMMABILITY:

**EXTINGUISHING MEDIA:** 

NFPA 704 HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.

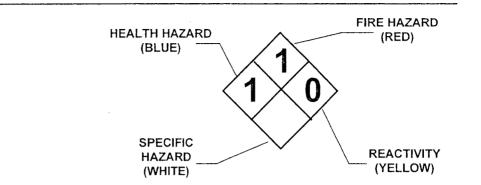
Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

Heat, sparks, or flame. Products may burn, but do not ignite

Decomposition and combustion materials may be toxic.

Burning may produce carbon monoxide and unidentified

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FIRE FIGHTING

FIRE AND EXPLOSION HAZARDS:

Keep storage containers cool with water spray. A positivepressure, self-contained breathing apparatus (SCBA) and fullbody protective equipment are required for fire emergencies.

Vapors will spread along the ground and collect in low or confined areas. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

	SECTION 7: HANDLING AND STORAGE
HANDLING:	Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilate area. Avoid contact with eyes, skin, clothing, and shoes.
SHIPPING AND STORING:	Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources or ignition. Empty product containers may retain product residue and can be

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dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING** Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT

Sec. Se

**RESPIRATORY** Use NIOSH-certified, full-face, air-purifying respirators with P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1920.134; or in Canada with CSA Standard Z94.4.

**EYE** Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

**SKIN** Where skin contact is likely, wear Polyvinyl Chloride (PVC), neoprene, butyl rubber, nitrile, or equivalent protective gloves; use of polyvinyl alcohol (PVA) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL<br/>HYGIENE:Use good personal hygiene. Wash thoroughly with soap and water after<br/>handling product and before eating, drinking, or using tobacco products.<br/>Clean affected clothing, shoes, and protective equipment before reuse.<br/>Discard affected clothing, shoes, and/or protective equipment if they cannot<br/>be thoroughly cleaned. Discard leather articles, such as shoes, saturated<br/>with this product.

OTHERWhere spills and splashes are likely, facilities storing or using this productPROTECTIVEshould be equipped with an emergency eyewash and shower, bothEQUIPMENT:equipped with clean water, in the immediate work area.

SECTION 9: PHY	SICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE, APPEARANCE, AND ODOR:	Liquid, green, sweet odor. Syrupy.
ODOR THRESHOLD:	Not available.
MOLECULAR WEIGHT:	106.
SPECIFIC GRAVITY:	>1 (water = 1)
DENSITY:	Not available.
VAPOR DENSITY:	>1 (air = 1)
VAPOR PRESSURE:	<0.1 mmHg at 68°F (20°C)
BOILING POINT:	>300°F (148.9°C)
FREEZING/MELTING POINT:	Not available.
pH:	6-10
EVAPORATION RATE:	Not available.
SOLUBILITY IN WATER:	Complete
FLASH POINT:	>200°F (>93.3°C)
FLAMMABLE LIMITS IN AIR:	<b>LOWER:</b> 3.2 VOL% (ethylene glycol) <b>UPPER:</b> 15.3 VOL% (ethylene glycol)
AUTOIGNITION TEMPERATURE:	748°F (398°C) (ethylene glycol)

	SECTION 10: STABILITY AND REACTIVITY
STABILITY:	Stable under normal temperatures and pressures. Avoid heat, sparks, of flame.
INCOMPATIBILITY:	Avoid acids, alkalies, oxidizing agents, or reactive metals.
REACTIVITY:	Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal temperatures and pressures. See also SECTION 5 HAZARDOUS COMBUSTION PRODUCTS.
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S	SECTION 11: TOXICOLOGIC	AL INFORMATION						
SENSITIZATION:	Ethylene glycol has demonstrated human effects of skin sensitization							
	Based on best current information, the other components listed in <b>SECTION 2</b> are not sensitizers.							
MUTAGENICITY:	Ethylene glycol and diethylene glycol have demonstrated human effects of mutagenicity.							
CARCINOGENICITY:	Based on best current information, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.							
REPRODUCTIVE TOXICITY:	Ethylene glycol and diethylene glycol have demonstrated animal effects of reproductive toxicity.							
TERATOGENICITY:	Ethylene glycol and diethylene glycol have demonstrated animal effects of teratogenicity.							
TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):	Based on best current information, there are no known toxicologically synergistic products associated with this product.							
	SECTION 12: ECOLOGICAL							
ECOTOXICITY:	Ethylene glycol (1							
	Test & Species 96 Hr LC50	41000 mg/L	Conditions					
	rainbow trout 96 Hr LC50	27500 mg/L						
	bluegill 96 Hr LC50 goldfish	27500 mg/L						
	<b>1,2-Propylene glyc</b> 24 Hr LC50 goldfish	<b>:ol (57-55-6)</b> 5000 mg/L						
	48 Hr LC50 guppy	10000 mg/L						
	<b>Diethylene glycol</b> 96 Hr LC50 fathea minnow		flow-through					
	Revision 2/03; MSDS Form No. 82	2912 - Page 8 of 10						

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OCTANOL/WATER PARTITION COEFFICIENT: VOLATILE ORGANIC COMPOUNDS: Not available. Not available.

# SECTION 13: DISPOSAL CONSIDERATIONS DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal. USEPA WASTE CODES(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product. DOT: Shipping Name: Not regulated as a hazardous material for transportation. TDG: Shipping Name: Not regulated as a dangerous good for transportation.

EMERGENCY RESPONSENot applicable.GUIDE NUMBER:Reference North American Emergency Response Guidebook

# SECTION 15: REGULATORY INFORMATION

# USA REGULATIONS

SARA SECTIONS<br/>302 AND 304:Based on the ingredient(s) listed in SECTION 2, this product does not<br/>contain any "extremely hazardous substances" listed pursuant to Title III<br/>of the Superfund Amendments and Reauthorization Act of 1986 (SARA)<br/>Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A<br/>and B.

SARA SECTIONSThis product poses the following health hazard(s) as defined in 40 CFR311 AND 312:Part 370 and is subject to the requirements of sections 311 and 312 of<br/>Title III of the Superfund Amendments and Reauthorization Act of 1986<br/>(SARA):<br/>Immediate (Acute) Health Hazard<br/>Delayed (Chronic) Health Hazard

 SARA SECTION
 The following component is subject to the requirements of section 313 of
 Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Revision 2/03; MSDS Form No. 82912 - Page 9 of 10

Ethylene glycol (107-21-1) 1.0 percent de minimis concentration CERCLA: Based on the ingredient(s) listed in SECTION 2, this product contains the following "hazardous substance(s)" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ): Ethylene glycol (107-21-1) 5000 lb final RQ; 2270 kg final RQ TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory. CALIFORNIA: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer. This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm. CANADIAN REGULATIONS This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR. Class D2A - Contains component that may cause cancer. WHMIS: Class D2B - Irritating to eyes and skin. CANADIAN All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the ENVIRONMENTAL requirements to be listed on, the Canadian Domestic Substances List PROTECTION (DSL). ACT (CEPA):

# **SECTION 16. OTHER INFORMATION**

**REVISION INFORMATION:** 

New product.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this(these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

WE CARE,

©2003 Printed in the USA.

Revision 2/03; MSDS Form No. 82912 - Page 10 of 10

# APPENDIX B:

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# STANDARD OPERATING PROCEDURES FOR WASTEWATER SAMPLING AT COMPRESSOR STATIONS

4/4/2007

# APPENDIX B

# SOUTHERN UNION GAS SERVICES STANDARD OPERATING PROCEEDURE

# WASTEWATER SAMPLING AND ANALYSIS FOR SE NMGAS COMPRESSOR STATIONS

## 1.0 Scope

This procedure is designed to direct the sampling and analytical methods used to determine the applicable RCRA characteristics of wastewater (wash water and/or storm water) collected at Southern Union Gas Services (SUGS) compressor stations located in SE New Mexico. These procedures are to be used when changes in materials and/or processes at compressor stations are modified to any degree which might significantly alter the chemical or physical characteristics of wastewaters generated at the facility.

## 2.0 Equipment

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ALC: NO

Sampling of wastewater will require:

- 1. Sample containers (prepreserved, from laboratory)
- 2. Chain of Custody forms
- 3. Shipping Cooler
- 4. Shipping labels
- 5. Packing Tape
- 6. Ice or "blue ice"
- 7. Poly or latex gloves
- 8. Small plastic sheet or tarp
- 9. Site-specific safety equipment (e.g., hard hat, coveralls, safety glasses)
- 10. Paper towels
- 11. Ziplock bags
- 12. Hand washer or towelettes
- 13. Trash bags
- 14. Notebook
- 15. Camera

## 3.0 Laboratory

The selected laboratory is:

Environmental Laboratory of Texas 12600 W. I-20 E Odessa, Texas 79765 (432) 563-1800 1.2

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Contact the laboratory at least 24 hours before the sampling date and arrange to have shipped the appropriate sample containers (pre-preserved), chain of custody forms, sample labels, and shipping labels shipped to the appropriate location.

# 4.0 Analytes, Containers and Preservatives

The analytes and their containers, preservatives, and handling are summarized in Table 1 below.

Toxicity	Regulatory Limit (TCLP) mg/kg	Analytical Method	Container	Preservation	Holding Time		
Benzene	0.5	8240A (GC/MS)	2x 40 ml VOA	Cool to 4 <sup>°</sup> C.	14 Days		
Mercury	0.2	7471 (Cold Vapor)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^0$ C.	6 Months		
Arsenic	5.0	7060 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^{\circ}$ C.	6 Months		
Barium	100.0	7080 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^{\circ}$ C.	6 Months		
Cadmium	1.0	7130 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^{\circ}$ C.	6 Months		
Chromium	5.0	7190 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^{\circ}$ C.	6 Months		
Lead	5.0	7420 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^{\circ}$ C.	6 Months		
Selenium	1.0	7740 (AA)	1 L HDPE	Nitric Acid to pH < 2, Cool to $4^{\circ}$ C.	6 Months		
Silver	5.0	7760A (AA)	1 L HDPE	Nitric Acid to pH < 2, Cool to $4^{\circ}$ C.	6 Months		
Reactive							
Cyanide	250.0	9010A	1 L HDPE	Cool to 4 <sup>°</sup> C.	14 Days		
рН	<2 or >12.5 pH units	9040	250 ml HDPE	Cool to 4 <sup>°</sup> C.	24 Hours		
Sulfide	500.0	9031	250 ml HDPE	Cool to $4^{\circ}$ C.	6 Months		
Ignitability	<60 deg C	1010	250 ml Glass	Cool to $4^{\circ}$ C.	6 Months		

VOA - Volatile Organic Analysis vial

HDPE – High Density Polyethylene

Two identical samples are collected for Benzene in the two 40 milliliter VOAs. One 1-liter HDPE container is used for all of the metals (mercury, arsenic, barium, cadmium, chromium, lead, selenium and silver). Individual containers are used for cyanide, pH and sulfide.

# 5.0 Methods

After obtaining the sample materials from the laboratory and the field equipment listed in Section 2.0, schedule the site visit and proceed to the facility.

Upon reaching the site, document the location, date, time, personnel involved and the purpose of the sampling visit. Also note any environmental conditions (weather, condition of equipment, adjacent activities) which might influence the sampling. Photograph the site and areas where samples will be taken.

Unpack and review the completeness and condition of the sampling equipment.

After selecting the points for sample collection, proceed as follows:

- 1. Put on a clean pair of gloves
- 2. Spread the plastic sheet on a flat, level surface near the sampling point and lay out the cooler and containers
- 3. Fill out the appropriate labels, and place then in a location secure from weather
- 4. Begin by filling the VOAs, making sure that the vials are completely full and that no air bubbles are present.
- 5. Then collect the other parameters, filling them to within <sup>1</sup>/<sub>4</sub>" of the top and securely closing the containers.
- 6. Clean the containers with paper towels and apply the labels
- 7. Place the labeled containers in zipped bags and place in the cooler with bagged ice or "blue ice"
- 8. Clean up the area to remove paper trash and towels, etc.
- 9. Remove your gloves, wash your hands, and put the gloves in the trash bag
- 10. Complete the information required on the Chain of Custody form, sign the form, and remove the sampler's copy.
- 11. Place the Chain of Custody form in a sealed plastic bag and place it in the cooler
- 12. Fill and attach the shipping label, and secure the cooler with packing tape
- 13. Keep the cooler in your custody until it is shipped to the laboratory
- 14. Contact the laboratory to notify them that the samples are en route, and request that you be notified when the samples are received. Arrange for e-mail notification directly from the shipper (i.e., Federal Express) to the laboratory contact and the sampler.
- 15. After returning from the sampling site, appropriately file your notes, photographs and Chain of Custody forms.
- 16. Copy all notes, photographs and chain of custody forms and attach to results when received and forward to:

Mr. Tony Savoie Southern Union Gas Services, LLP 160 Commerce Street Jal NM 88252

# APPENDIX C:

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# ANALYTICAL DATA AND DOCUMENTATION



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A Xenco Laboratories Company

# Analytical Report

Prepared for:

Tony Savoie Southern Union Gas Services- Jal P.O. Box 1226 Jal, NM 88252

Project: Harroun Compressor Project Number: None Given Location: West of Jal

Lab Order Number: 7C27003

Report Date: 04/05/07

Southern Union Gas Services- Jal P.O. Box 1226 Jal NM, 88252

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# Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Harroun	7C27003-01	Water	03/26/07 11:41	03-27-2007 10:30

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Page 1 of 10

Fax: 505-395-2326

Southern Union Gas Services- Jal P.O. Box 1226 Jal NM, 88252

## Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

General Chemistry Parameters by EPA / Standard Methods

<b>Environmental L</b>	ab of Texas
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Harroun (7C27003-01) Water								,	
Ignitability by Flashpoint	[>85.0]		°C	1	ED70303	04/02/07	04/02/07	EPA 1010A / ASTM D93-80	
pH	7.82		pH Units	**	EC72904	03/28/07	03/28/07	EPA 150.1	O-04

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Southern Union Gas Services- Jal P.O. Box 1226 Jal NM, 88252

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## Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

## TCLP Metals 1311 by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Extracted	Prepared	Analyzed	Method	Notes
Harroun (7C27003-01) Water										
Mercury	ND	0.000250	mg/L	1	EC73019	tclp 3-28-07	03/29/07	03/30/07	EPA 7470A	
Chromium	J [0.00617]	0.00975		10	EC73020		03/29/07	03/30/07	EPA 6020A	J
Arsenic	J [0.0137]	0.0170	P	n	"	**	"	"	38	J
Selenium	0.0747	0.0300	и		n	11		п		
Silver	ND	0.00405	"		н			"	"	
Cadmium	J [0.00151]	0.00692	n	'n	и	**	11	n	п	J
Barium	0.0844	0.00489	**	11	"			н		
Lead	J [0.00151]	0.00296	"			11	**	н		J

Environmental Lab of Texas A Xenco Laboratories Company The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Page 3 of 10

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#### Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

Fax: 505-395-2326

### TCLP Volatile Halocarbons by EPA Method 1311/8021B

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Extracted	Prepared	Analyzed	Method	Notes
Harroun (7C27003-01) Water										
Benzene	0.0317	0.00100	mg/L	1	EC73101	03/28/07 TCLP	03/31/07	03/31/07	EPA 8021B	
Toluene	0.0507	0.00100		n	"	**	п	"		
Ethylbenzene	0.0114	0.00100	*	"		"	"	н	10	
Xylene (p/m)	0.0982	0.00100	۲		н		п	"	**	
Xylene (0)	0.0787	0.00100	**	"	"	79	н	и		
Surrogate: a,a,a-Trifluorotoluene		91.4 %	8(	0-120	"	"	n	"	11	
Surrogate: 4-Bromofluorobenzene		82.4 %	80	0-120	"	"	"	"	"	

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#### Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

·····										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC72904 - General Preparation (	WetChem)									
Calibration Check (EC72904-CCV1)				Prepared &	k Analyzed:	03/28/07				
pH	9.96		pH Units	10.00		99.6	97.5-102.5			
Calibration Check (EC72904-CCV2)				Prepared &	2 Analyzed	03/28/07				
рН	6.98		pH Units	7.00		99.7	97.5-102.5	· · · · · · · ·		
Duplicate (EC72904-DUP1)	Sou	rce: 7C26010	-01	Prepared &	k Analyzed	: 03/28/07				
pH	8.12		pH Units		8.08			0.494	20	
Duplicate (EC72904-DUP2)	Sou	rce: 7C27011	-01	Prepared &	& Analyzed	: 03/28/07				
рН	7.59		pH Units		7.58			0.132	20	
Batch ED70303 - General Preparation (	WetChem)							_		
LCS (ED70303-BS1)				Prepared a	& Analyzed	: 04/02/07				
Ignitability by Flashpoint	29.0		°C				96-104	_		
Duplicate (ED70303-DUP1)	Sou	rce: 7C27001	-01	Prepared a	& Analyzed	: 04/02/07				
Ignitability by Flashpoint	[>85.0]		°C		0.00				20	

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#### Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

#### TCLP Metals 1311 by EPA / Standard Methods - Quality Control

#### Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC73019 - EPA 1311/7470A										
Blank (EC73019-BLK1)				Prepared: 0	)3/29/07 <i>F</i>	Analyzed: 03	/30/07			
Mercury	ND	0.000250	mg/L							
LCS (EC73019-BS1)				Prepared: 0	)3/29/07 A	Analyzed: 03	3/30/07			
Mercury	0.000850	0.000250	mg/L	0.00100		85.0	85-115			
LCS Dup (EC73019-BSD1)			-	Prenared: (	13/29/07	Analyzed: 03	8/30/07			
Mercury	0.000980	0.000250	mg/L	0.00100		98.0	85-115	14.2	20	
	0.000000	0.000200							20	
Calibration Check (EC73019-CCV1)					03/29/07	Analyzed: 03				
Mercury	0.000900		mg/L	0.00100		90.0	90-110			
Matrix Spike (EC73019-MS1)	Sou	rce: 7C22001-	02	Prepared: (	)3/29/07	Analyzed: 03	3/30/07			
Mercury	0.00106	0.000250	mg/L	0.00100	ND	106	75-125			
							0.00.00			
				Dromorody						
Blank (EC73020-BLK1)	ND	0.000975	mall	Prepared:	03/29/07	Analyzed: 0.	3/30/07			
Chromium	ND	0.000975	mg/L "	Prepared:	03/29/07	Analyzed: 0.	3/30/07			
Chromium Arsenic	ND	0.00170		Prepared:	03/29/07	Analyzed: 0.	3/30/07			
Chromium Arsenic Selenium	ND ND	0.00170 0.00300		Prepared:	03/29/07	Analyzed: 0.	3730/07			
Chromium Arsenic	ND	0.00170		Prepared: (	03/29/07	Analyzed: 0.	3/30/07			
Chromium Arsenic Selenium Silver	ND ND ND	0.00170 0.00300 0.000405		Prepared: (	03/29/07	Analyzed: 0.	3/30/07			
Chromium Arsenic Selenium Silver Cadmium	ND ND ND ND	0.00170 0.00300 0.000405 0.000692	н н н	Prepared: (	03/29/07	Analyzed: 0.	3/30/07			
Chromium Arsenic Selenium Silver Cadmium Barium	ND ND ND ND	0.00170 0.00300 0.000405 0.000692 0.000489	11 11 11 11 11	·		Analyzed: 0.				
Chromium Arsenic Selenium Silver Cadmium Barium Lead	ND ND ND ND	0.00170 0.00300 0.000405 0.000692 0.000489	11 11 11 11 11	·						
Chromium Arsenic Selenium Silver Cadmium Barium Lead LCS (EC73020-BS1)	ND ND ND ND ND	0.00170 0.00300 0.000405 0.000692 0.000489 0.000296	9 9 9 9 9	Prepared:		Analyzed: 0	3/30/07			
Chromium Arsenic Selenium Silver Cadmium Barium Lead LCS (EC73020-BS1) Chromium	ND ND ND ND ND	0.00170 0.00300 0.000405 0.000692 0.000489 0.000296	"" " " " mg/L	Prepared: 0.200		Analyzed: 0 95.0	<u>3/30/07</u> 85-115			
Chromium Arsenic Selenium Silver Cadmium Barium Lead LCS (EC73020-BS1) Chromium Arsenic	ND ND ND ND ND 0.190 0.737	0.00170 0.00300 0.000405 0.000692 0.000489 0.000296 0.000296	" " " " mg/L	Prepared: 0.200 0.800		Analyzed: 0 95.0 92.1	3/30/07 85-115 85-115			
Chromium Arsenic Selenium Silver Cadmium Barium Lead LCS (EC73020-BS1) Chromium Arsenic Selenium	ND ND ND ND 0.190 0.737 0.396	0.00170 0.00300 0.000405 0.000692 0.000489 0.000296 0.000296	" " " " mg/L " "	Prepared: 0.200 0.800 0.400		Analyzed: 0 95.0 92.1 99.0	3/30/07 85-115 85-115 85-115 85-115			
Chromium Arsenic Selenium Silver Cadmium Barium Lead LCS (EC73020-BS1) Chromium Arsenic Selenium Silver	ND ND ND ND 0.190 0.737 0.396 0.104	0.00170 0.00300 0.000405 0.000692 0.000489 0.000296 0.000296 0.000975 0.00170 0.00300 0.000405	" " " " " " " " " "	Prepared: 0.200 0.800 0.400 0.100		Analyzed: 0 95.0 92.1 99.0 104	3/30/07 85-115 85-115 85-115 85-115 85-115			

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## Project: Harroun Compressor Project Number: None Given

Project Manager: Tony Savoie

### TCLP Metals 1311 by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC73020 - EPA 1311/3005	······································									
LCS Dup (EC73020-BSD1)				Prepared: 0	13/29/07 Ar	alyzed: 03	/30/07			
Chromium	0.189	0.000975	mg/L	0.200		94.5	85-115	0.528	20	
Arsenic	0.732	0.00170		0.800		91.5	85-115	0.681	20	
Selenium	0.394	0.00300	"	0.400		98.5	85-115	0.506	20	
Silver	0.103	0.000405	"	0.100		103	85-115	0.966	20	
Cadmium	0.200	0.000692	"	0.200		100	85-115	1.01	20	
Barium	0.207	0.000489		0.200		104	85-115	3.44	20	
Lead	1.06	0.000296		1.10		96.4	85-115	0.948	20	
Calibration Check (EC73020-CCV1)				Prepared: (	)3/29/07 Ai	nalyzed: 03	/30/07			
Chromium	0.0498		mg/L	0.0500		99.6	90-110			
Arsenic	0.0491		•	0.0500		98.2	90-110			
Selenium	0.0489			0.0500		97.8	90-110			
Silver	0.0495			0.0500		99.0	90-110			
Cadmium	0.0509			0.0500		102	90-110			
Barium	0.0488		"	0.0500		97.6	90-110			
Lead	0.0480		*	0.0500		96.0	90-110			
Matrix Spike (EC73020-MS1)	Sou	rce: 7C22001	-02	Prepared: (	03/29/07 A	nalyzed: 03	3/30/07			
Chromium	0.176	0.00975	mg/L	0.200	ND	88.0	75-125			
Arsenic	0.748	0.0170		0.800	ND	93.5	75-125			
Selenium	0.368	0.0300	u –	0.400	0.0282	85.0	75-125			
Silver	0.0979	0.00405		0.100	0.00110	96.8	75-125			
Cadmium	0.190	0.00692	н	0.200	ND	95.0	75-125			
Barium	0.253	0.00489		0.200	0.0804	86.3	75-125			
Lead	0.830	0.00296	"	1,10	ND	75.5	75-125			
Matrix Spike Dup (EC73020-MSD1)	Sou	arce: 7C22001	-02	Prepared:	03/29/07 A	nalyzed: 0	3/30/07			
Chromium	0 177	0.00975	mg/L	0.200	ND	88.5	75-125	0.567	20	
Arsenic	0.743	0.0170	"	0.800	ND	92.9	75-125	0.671	20	
Selenium	0.375	0.0300		0.400	0.0282	86.7	75-125	1.88	20	
Silver	0.0802	0.00405		0.100	0.00110	79.1	75-125	19.9	20	
Cadmium	0.191	0.00692	"	0.200	ND	95.5	75-125	0.525	20	
Barium	0.253	0.00489	r.	0.200	0.0804	86.3	75-125	0.00	20	
Lead	0.835	0.00296	н	1.10	ND	75.9	75-125	0.601	20	

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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### Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

#### TCLP Volatile Halocarbons by EPA Method 1311/8021B - Quality Control

#### **Environmental Lab of Texas**

	Dereck	Reporting	¥ I-Jea	Spike	Source	8/1)FC	%REC	DDD	RPD	Netes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC73101 - EPA GC 1311										
Blank (EC73101-BLK1)				Prepared &	Analyzed:	03/31/07				
Benzene	ND	00100.0	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	43.1		ug/l	50.0		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.2		"	50.0		86.4	80-120			
LCS (EC73101-BS1)				Prepared &	k Analyzed:	03/31/07				
Benzene	0.0452	0.00100	mg/L	0.0500		90.4	80-120			
Toluene	0.0435	0.00100	н	0.0500		87.0	80-120			
Ethylbenzene	0.0452	0.00100	"	0.0500		90.4	80-120			
Xylene (p/m)	0.0861	0.00100		0.100		86.1	80-120			
Xylene (o)	0.0458	00100.0	"	0.0500		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.1		ug/l	50.0		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.2		"	50.0		82.4	80-120			
Calibration Check (EC73101-CCV1)				Prepared:	03/31/07 A	nalyzed: 0	4/02/07			
Benzene	50.6		ug/l	50.0		101	80-120			· · ·
Tolucne	47.8			50.0		95.6	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	91.0		и	100		91.0	80-120			
Xylene (o)	49.0		п	50,0		98.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.0		'n	50.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	45.0		"	50.0		90.0	80-120			
Duplicate (EC73101-DUP1)	So	urce: 7C26001	-01	Prepared:	03/31/07 /	Analyzed: 0	4/02/07			
Benzene	0.000631	0.00100	ing/L		0.000608			3.71	20	
Toluene	ND	0.00100	н		ND				20	
Ethylbenzene	ND	0.00100	"		ND				20	
Xylene (p/m)	0.00138	0.00100	н		0.00143			3.56	20	
Xylene (o)	ND	0.00100	37		ND				20	
Surrogate: a,a,a-Trifluorotoluene	59.2		ug/l	50.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	42.8		"	50.0		85.6	80-120			

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#### Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

#### TCLP Volatile Halocarbons by EPA Method 1311/8021B - Quality Control

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC73101 - EPA GC 1311										
Matrix Spike (EC73101-MS1)	Sou	rce: 7C26001-	01	Prepared:	03/31/07 Ar	nalyzed: 04	/02/07			
Benzene	0.0509	0.00100	mg/L	0.0500	0.000608	101	80-120			
Toluene	0.0490	0.00100		0.0500	ND	98.0	80-120			
Ethylbenzene	0.0495	0.00100	10	0.0500	ND	99.0	80-120			
Xylene (p/m)	0.0957	0.00100		0.100	0.00143	94,3	80-120			
Xylene (o)	0.0514	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	63.0		ug/l	50.0		126	80-120			S
Surrogate: 4-Bromofluorobenzene	47.5		"	50.0		95.0	80-120			

Environmental Lab of Texas A Xenco Laboratories Company The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Project: Harroun Compressor Project Number: None Given Project Manager: Tony Savoie

#### Fax: 505-395-2326

#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

O-04 This sample was analyzed outside the EPA recommended holding time.

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). J

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Duplicate

Dup

Report Approved By:

Barror

4/5/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 10 of 10

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Date:

# Analytical Report 279736

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Service Service

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for

# Southern Union Gas Services-Jal

**Project Manager: Tony Savoie** 

Harroun Compressor

03-APR-07





12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers: Houston, TX E87603 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Page 1 of 7

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Project Location: West of Jal, NM Contact: Tony Savoie Project Id:

Certificate of Analysis Summary 279736 Southern Union Gas Services-Jal, Jal, NM Project Name: Harroun Compressor



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Date Received in Lab: Tue Mar-27-07 10:30 am Report Date: 03-APR-07

Project Manager: Brent Barron, II

	Lab Id:	279736-001	 
2	Field Id:	Harroun	 
Analysis Kequesiea	Depth:		
	Matrix:	WATER	 
	Sampled:	Mar-26-07 11:41	
Docative Cronide by FDA 0010	Extracted:		
Reactive Cyannue by ELA 2010	Analyzed:	Mar-29-07 17:12	
	Units/RL:	mg/L RL	
Cyanide		ND 0.200	
Baadin Culfide by CW 0030R	Extracted:		 
mean the full annual annual	Analyzed:	Mar-27-07 17:25	
	Units/RL:	mg/L RL	
Sulfide		56.0 50.0	

This analysical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed humoghout this may represent the base) subgranes of XENCO Laboratories. KENCO Laboratories assumes no responsibility and makes no warrany to the end use of the dua hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to bus writing. Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Since 1990

Brent Barron Odessa Laboratory Director

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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
3016 U.S. HWY 301 North - Suite 900, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



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# Project Name: Harroun Compressor

Work Order #: 279736			Pro	oject ID:			
Lab Batch #: 694179 Date Analyzed: 03/29/2007	Sample: 6 Date Prepared: 0				x: Water t: MAB		
Reporting Units: mg/L	Batch #:	1	BLANK /B	LANK SPI	KE REC	OVERY S	TUDY
Reactive Cyanide by EPA 901	Res	ult	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A	·1	[ <b>B</b> ]	[C]	76K [D]	70K	
Cyanide	NI	)	0.400	0.342	86	80-120	

Blank Spike Recovery [D] = 100\*[C]/[B]All results are based on MDL and validated for QC purposes.

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の政策



**BS / BSD Recoveries** 



Project Name: Harroun Compressor

Work Order #: 279736								Pro	Project ID:			
Analyst: MAB		D	ate Prepared	Date Prepared: 03/27/2007	7			Date Ar	<b>Date Analyzed:</b> 03/27/2007	//27/2007		
Lab Batch ID: 694181 Samp	Sample: 694181-1-BKS	χs	Batch #: 1					-	Matrix: Water	ater		
Units: mg/L			BLANK	(/BLANK S	SPIKE / E	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVE	RY STUD	Y	
Reactive Sulfide by SW 9030B	030B	Blank Sample Result	Spike It Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		[A]	[ <u>n</u>	[C]		[H]	Duplicate Result [F]	20 20 20	%	X1%	%KPD	
Sulfide		QN	1910	7770	98	7910.0	7370	93	5	60-120	20	

Relative Percent Difference RPD = 200\*[(D-I;)/(D+F)] Blank Spike Recovery [D] = 100\*(C)[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on *MDL* and Validated for QC Purposes

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	. REQUEST 432-563-1800 432-563-1713	Compressor	JAL	-	4891 []		·		247	и.о.я ВС	<u> </u>							s: s: act?	ither(s) siner(s) sr(s)			
	AL YSIS REQUEST Phone: 432-563-1800 Fax: 432-563-1713	rroun	24 OF			Analyze F		50 G L G C	saiitsio	itsioV								Laboratory Comments: Sample Containers Intact?	VOCs Free of Readspace? Custody seals on container Custody seals on cooler(s)	Sample Hand Delivered by Sampber/Client Rep. 7 by Counter? UPS OHL	Temperature Upon Receipt.	
	CHAIN OF CUSTODY RECORD AND AMALYSIS REQUEST (1-20 East Phone: 432-563-189 bxs 19765	Project Name: 1a Kroun	Project #: Project Loc: <u></u>	#	X.		TOTAL	SCOH SC	s (Cs. Mg. Ns (Ct. 502-00 ESP / CEC	s⊓cinA I ∃A2		>	+					Laborato Sample C	1	t	1	
	ECOF	roject	Projet		Report Format:		300		<b>вад</b> эдвюа-		-						1		Time	Time	Time	200
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	IN OF CU East 19765			and a second	لە <sup>-</sup> ب		f Containers	₹!दम		aucn <sup>D</sup> S <sup>2</sup> 2N												- C .)
	CHAIN OF CHAIN OF 12600 Wost I-20 East Odossa, Texas 79765		5 9		525	]	Preservation & # of Containers	<u>उड्ठम</u> र्ड		HOEN JOS2A			>									
	1260( Odes		·	$\sim$	- X 0 4		Plu			HNO <sup>5</sup>	2		•		1	-						1
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Ę	nmer	Project Manager.	Company Name Company Address:	City/State/Zip:	felephone No. communic companie			Wi		-	Harroun	Harrow	Harroun				•	tions		, jun		
	Environmental Lab of Texas	Proje	Cont	City/S	fele,		(lab use only) ORDER #:	λ)	iuo asn qe	) # 3 <b>%</b> -		140	Ha	-				Special Instructions	Reliminished by	Relinquisher Th	Redorgansheed by	
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## **Environmental Lab of Texas**

Variance/ Corrective Action Report- Sample Log-In

lient:	Southern Union Gas							
ate/ Time:	03-27-07 @ 1030							
ab ID # :	1027003							

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nitials:

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#### Sample Receipt Checklist

1	Temperature of container/ cooler?	Yes	No	- <u>3,0</u> °C
2	Shipping container in good condition?	Ves	No	
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
5	Chain of Custody present?	(Yes)	No	
6	Sample instructions complete of Chain of Custody?	Yes	No	
7	Chain of Custody signed when relinquished/ received?	(Yes)	No	
8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont /Lin
9	Container label(s) legible and intact?	Yes	No	Not Applicable
10	Sample matrix/ properties agree with Chain of Custody?	(es)	No	
11	Containers supplied by ELOT?	(Yes)	No	
12	Samples in proper container/ bottle?	Yes	No	* See Below
13	Samples properly preserved?	Yes	No	* See Below
14	Sample bottles intact?	(Yes)	No	
115	Preservations documented on Chain of Custody?	(es)	No	
t16	Containers documented on Chain of Custody?	(Yes)	No	
117	Sufficient sample amount for indicated test(s)?	Tes	No	See Below
118	All samples received within sufficient hold time?	Yes	No	See Below
19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

#### Variance Documentation

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Contact:

Regarding:

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Contacted by:

Jegone McMurray

Date/ Time: 03-27-07

TCLP BTEX preservation (should be neat and not w/Hai

**Corrective Action Taken:** 

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Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

## APPENDIX D:

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## DRAFT NOTICE OF APPLICATION, LOCATIONS AND NEWSPAPER FOR PUBLICATION

### APPENDIX D

Notice of Application by Southern Union Gas Services for Approval of a Discharge Plan for Natural Gas Compressor Station: Southern Union Gas Services, whose offices are located at 301 N. Commerce St., Suite 700, Fort Worth, Texas (76102) seeks approval from the New Mexico Oil Conservation for a Discharge Plan for the Harroun Compressor Station, located in the Southeast Quarter of the Northwest Quarter of Section 19, Township 23 South, Range 29 East in Eddy County, New Mexico (32<sup>°</sup>, 17.545' North, 104<sup>°</sup> 01.701'West). This location is at an elevation of 2950 feet, approximately 15 miles southeast of Carlsbad, New Mexico. This compressor station is designed to have no intentional liquid discharges. The shallowest groundwater potentially impacted by this facility is at a depth of approximately 10 to 50 feet and has a total dissolved solids content of approximately 5000 milligrams per liter. Additional information, comments or statements should be addressed Mr. James C. Hunter, R.G. of Geolex, Inc., 500 Marquette NW, Suite 1350, Albuquerque, NM 87102, Tel. (505-842-8000).

## PROPOSED POSTINGS, NOTIFICATIONS, AND PUBLICATION

Following NMOCD review and acceptance, we propose to post this notice using a 2'x3' sign, in English and Spanish, at the gate of the above-named facility and to post the  $2^{nd}$  sign outside the SUGS office in Jal.

Identified owners of all properties within a 1/3-mile distance from the boundary of the property where the discharge site is located will be provided with copies of this notice by mail. If there are no properties other than properties owned by SUGS within a 1/3-mile distance from the boundary of property where the discharge site is located, notice will be provided to owners of record of the next nearest adjacent properties not owned by the discharger.

Any owners of the lands upon which the proposed discharge site is located not owned by SUGS will be notified by certified, receipt-requested mailing.

The notice will also be advertised, in English and Spanish, in a 3" by 4" display advertisement in the local newspaper, the Carlsbad Current-Argus.