# GW - <u>366</u>

# PERMITS, RENEWALS, & MODS

Dec 07



Alberto A. Gutiérrez, C.P.G.

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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

#### 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 \$ 94.12 that Payment Thereof has been made and will be assessed as court costs.

april Hermandez

Subscribed and sworn to before me this

day of Q n My commission Expires on

**Notary Public** 



January 17, 2008 por parte de Southern Notice of Application by Southern Union para la aprobación de Gas Services for Ap proval of a Discharge Plan (GW-366) for Nash Draw Natural sor del gas natural de **Gas Compressor Sta** tion: Southern Union Gas Services, whose offices are located at 301 N. Commerce St., 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 Nash Draw Compressor Station, located in the North east Quarter of the Southeast Quarter of Section 30, Township 24 South, Range 30 East in Eddy County, New Mexico (32o 11.118' North, 103o 54.794'West). This location is at an ele vation of 3200 feet, approximately 25 miles southeast of Carlsbad, New Mexi co. This compressor station is designed to have no intentional liquid discharges. The shallowest groundwater potenti ally impacted by this facility is at a depth of approximately 100 to 300 feet and has a total dissolved solids content of approxi mately 2500 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

Union Gas Services

un plan de la descar

ga (GW-366) para la

estación del compre

Nash Draw:

Southern Union Gas

Services, con oficinas

que están situadas en

Suite 700; Fort Worth, Texas (76102)

busca la aprobación

de New México Oil

**Conservation Division** para un plan de la descarga para la es tación del compresor

de Nash Draw, situa

da en el cuarto nor destal del cuarto sur

este) de la sección

30, Township 24

South, Range 30 East

en el condado de

Eddy, Nuevo México

(32o 11.118' norte,

103o 54.794' oeste).

Esta localización está

a una elevación de

3200 pies, aproxima

damente 25 millas al

sureste de Carlsbad,

Nuevo México. Esta

estación del compre

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tener ninguna descar ga líquida intencion

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cional deben ser diri

gidos al Sr. James C.

Hunter, R.G. de Geo

lex, Inc., 500 Marquette Av. NW, habitación 1350, Al

buquerque, NM 87102, tel. (505-842-8000)



whose offices are located at 301 N. Commerce St., Suite 700, Fort Worth, Texas (76102) seeks Notice of Application by Southern Union Gas Services for Approval of a Discharge Plan approval from the New Mexico Oil Conservation Division for a Discharge Plan for the Nash discharges. The shallowest groundwater potentially impacted by this facility is at a depth of 30, Township 24 South, Range 30 East in Eddy County, New Mexico (32° 11.118' North, 103° approximately 100 to 300 feet and has a total dissolved solids content of approximately 2500 (GW-366) for Nash Draw Natural Gas Compressor Station: Southern Union Gas Services miligrams per liter. Additional information, comments or statements should be addressed Mr Draw Compressor Station, located in the Northeast Quarter of the Southeast Quarter of Section James C. Hunter, R.G. of Geolex, Inc., 500 Marquette NW, Suite 1350, Albuquerque, NM 87102 Carlsbad, New Mexico. This compressor station is designed to have no intentional liquid 54.794 West). This location is at an elevation of 3200 feet, approximately 25 miles southeast of Lel. (505-842-8000)

plan de la descarga (GW-366) para la estación del compresor del gas natural de Nash Draw. Southern Union Gas Services, con oficinas que están situadas en 301 N. Commerce St., Suite para un plan de la descarga para la estación del compresor de Nash Draw, situada en el cuarto elevación de 3200 pies, aproximadamente 25 millas al sureste de Carlsbad, Nuevo México. Esta 700, Fort Worth, Texas (76102) busca la aprobación de New México Oil Conservation Division estación del compresor se diseña para no tener ninguna descarga líquida intencional. El agua de Eddy, Nuevo México (32° 11.118' norte, 103° 54.794' oeste). Esta localización está a una nordestal del cuarto sureste) de la sección 30, Township 24 South, Range 30 East en el condado aproximadamente 100 a 300 pies y tiene un contenido de sólidos disuelto total de subterránea menos profunda potencialmente afectada por esta facilidad está a una profundidad de aproximadamente 2500 miligramos por litro. Cualquier información, comentario o declaración NW, habitación 1350, Albuquerque, NM 87102, tel. (505-842-8000 adicional deben ser dirigidos al Sr. James C. Hunter, R.G. de Geolex, Inc., 500 Marquette Av

Aviso de Aplicación por parte de Southern Union Gas Services para la aprobación de un

1.2 (12



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 Nash Draw Gas Compressor Station GW-366 UL I of Section 30, Township 24 South, Range30 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-366

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 Nash Draw Gas Compressor Station (GW-366) UL I of Section 30, Township 24 South, Range 30 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

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."

Southern Union Gas Services, Ltd. 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-366

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

Re: Discharge Permit Nash Draw Gas Compressor Station (GW-366) UL I of Section 30, Township 24 South, Range 30 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

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.

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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.

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.

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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.

#### 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."

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
То:	'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_200

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

6w-366



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

December 19, 2007

GW-366 **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 Nash Draw Gas Compressor Station (GW-366) UL I of Section 36, Township 24 South, Range 30 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-366 **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-366 **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-366 **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-366 **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-366 **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-366 **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 NASH DRAW COMPRESSOR STATION Gw-366

Dear Mr. Chavez:

Southern Union Gas Services, Ltd. ("SUGS") hereby submits the enclosed Discharge Plan Application for the initial discharge plan for the Nash Draw Compressor Station. The Nash Draw Compressor Station, located in Unit I of Section 30, Township 24 South, Range 30 East in Eddy County, New Mexico (32° 11.118' North, 103° 57.794' 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.

Smie M. Hellin-

Bruce Williams Vice President – Operations

Enclosures

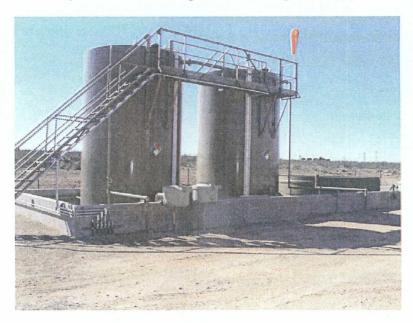
cc: w/o enclosures James C. Hunter, RG – Geolex, Inc. Tony Savoie – SUGS – Jal, NM

AAG@GEOLEX.COM



### Application for New Mexico Oil Conservation Division Discharge Plan NASH DRAW COMPRESSOR STATION 6W-366

(Section 30, Township 24 South, Range 30 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



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

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

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)

243631 New New Renewal Modification 1. Type: Nash Draw 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: NE 1/4SE 1/4 Section 30 Township 24S Range 30E Submit large scale topographic map showing exact location. Attach the name, telephone number and address of the landowner of the facility site. 4. 5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility. 6. Attach a description of all materials stored or used at the facility. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water 7. must be included. Attach a description of current liquid and solid waste collection/treatment/disposal procedures. 8. Attach a description of proposed modifications to existing collection/treatment/disposal systems. 9.

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. Broce Williams	/•	Title:	Vice President, Operations
Signature: _	Brue M.	Hillin	Date:	8-27-07

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

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- 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 Nash Draw Compressor Station (Nash Draw) 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 Nash Draw station is located in Unit I of Section 30, Township 24 South, Range 30 East in Eddy County, New Mexico (32° 11.118' North, 103° 54.794'West). This location is at an elevation of 3200 feet, approximately 25 miles southeast of Carlsbad, New Mexico (see Figure 1).

#### 4.0 LANDOWNER

The land is owned by 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

#### 8/9/2007

### **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 are primarily stabilized sand dunes, known as the Mescalaro sands. These dunes range locally from zero to 60 feet, and are stabilized by vegetation such as mesquite bushes. This unit does not typically host groundwater in this area.

### 5.1.1 Site Area Geology

The Nash Draw Compressor site is situated on a low bluff between Pierce and Cedar canyons (see Figure 1). Local soils are tan to reddish silt and clay with minor sand and caliche. Surficial deposits consist of thin colluvial and aeolian material (Mescalero sands), overlying the eroded beds of the Triassic Dockum Group and 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 Nash Draw. Salt and potash are also extracted by mining and solution extraction in the area north of Nash Draw.

### 5.1.2 Uppermost Aquifer

Outside the local alluvium of the valley of the Pecos River to the west, the only source of potentially potable drinking water is in the sandy to silty Dockum and Dewey Lake beds, which overly the relatively impermeable evaporites of the Salado Formation.

Within the Dockum and 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 Nash Draw is from 100 to 300 feet. According to maps published by Hendrickson and Jones (1951), the flow of groundwater in the upper aquifer in the area of Nash Draw 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 Nash Draw. The nearest published information is from a well in Section 9, T25S, R30E (approximately 4 8/9/2007

miles south of Nash Draw. This well is completed in the Dockum and has a Total Dissolved Solids of 2470 milligrams per liter (Hendrickson and Jones, 1951; pp. 154 and 162)

5.1.4 Nearest Potential Groundwater Receptors

The nearest groundwater well in the vicinity of Nash Draw is a stock well owned by M&M Cattle Partnership (New Mexico State Engineer's Office File Number C02109) in Section 19, T24S, R30E, approximately 1.5 miles north (crossgradient) of the Nash Draw facility (Figure 2). This location prevents any potential migration by groundwater flow from the compressor station to this well

5.2 SURFACE WATER

The nearest permanent body of water is the Pecos River, approximately 5 miles west from Nash Draw (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 3200 feet, whereas the elevation of the Pecos River in this area is at approximately 2900 feet. Although there are no available FEMA flood maps for this area, the difference in elevation (300 feet) indicates that the facility is well outside the 100-year floodplain of the Pecos River.

### 6.0 FACILITY DESCRIPTION

Nash Draw 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 waters 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 Nash Draw) 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.

TYPE AGT Steel	ID TK-1	MATERIAL Scrubber Liquids	FORM Liquid	VOLUME 210 bbl	LOCATION South Area	CONTAINMENT Concrete 1500 bbl Containment
AGT Steel	TK-2	Scrubber Liquids	Liquid	210 bbl	South Area	Common w/TK-1
AGT RFG	<b>TK-3</b>	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	TK-7	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 Nash Draw 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 Nash Draw 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 Nash Draw

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Compressor facility's waste management system is designed to prevent the commingling of exempt and non-exempt wastes.

SOURCE	TYPE OF WASTE	VOLUME	REGULATORY STATUS	STATUS DETERMINÁTION
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, Quantities and Regulatory at Nash Draw 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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### Table 8-2: Wastewater Analyses From Nash Draw Compressor Station

Date Sampled	3/26/2007 & 4/					
location	Nash Draw Co	Nash Draw Compressor Station				
Report #	7C27005 & 7D	013012				
Matrix	Waste water					
Destination: unk	nown					
Volume transpor	ted:					
Date:						
	Analytical	Reg limit (TCLP)				
Toxicity	mg/kg	mg/kg	Determination			
Benzene	0.00388	0.5	Non-hazardous			
Mercury	ND	0.2	Non-hazardous			
Arsenic	0.0251	5.0	Non-hazardous			
Barium	0.0172	100.0	Non-hazardous			
Cadmium	J(0.00414)	1.0	Non-hazardous			
Chromium	0.293	5.0	Non-hazardous			
Lead	0.00809	5.0	Non-hazardous			
Selenium	0.122	1.0	Non-hazardous			
Silver	ND	5.0	Non-hazardous			
Reactive						
Cyanide	ND	250.0	Non-hazardous			
рН	7.26 pH units	<2 or >12.5 pH units	Non-hazardous			
Sulfide	56.0	500.0	Non-hazardous			
lgnitability	>85 deg. C	<60 deg C	Non-hazardous			

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### 9.0 LIQUID AND SOLID WASTES COLLECTION, STORAGE AND DISPOSAL

The collection, storage, removal and disposal of wastes generated at Nash Draw 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 Nash Draw 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-12 (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
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, Nash Draw 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 Nash Draw, 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 Nash Draw.

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 Nash Draw 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.

G:\06-012\CompressorStationDischargePlans\NashDraw\Reports\NashDrawDischargePlan.doc

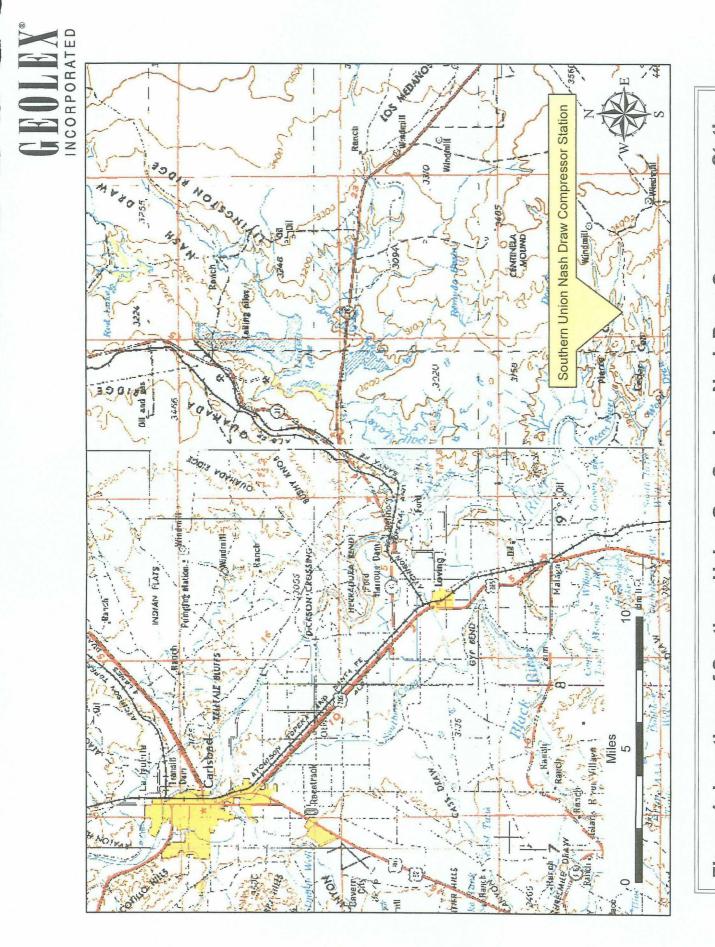


Figure 1: Locations of Southern Union Gas Services Nash Draw Compressor Station

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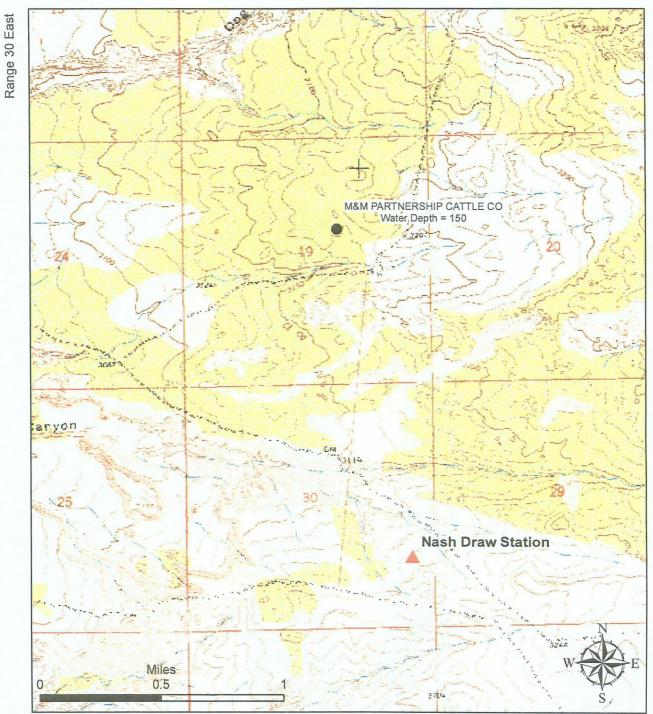
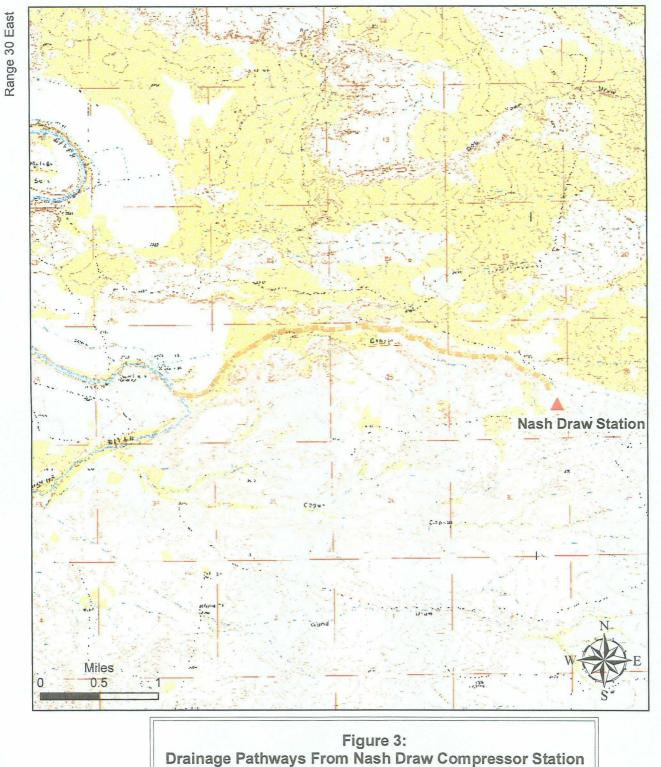


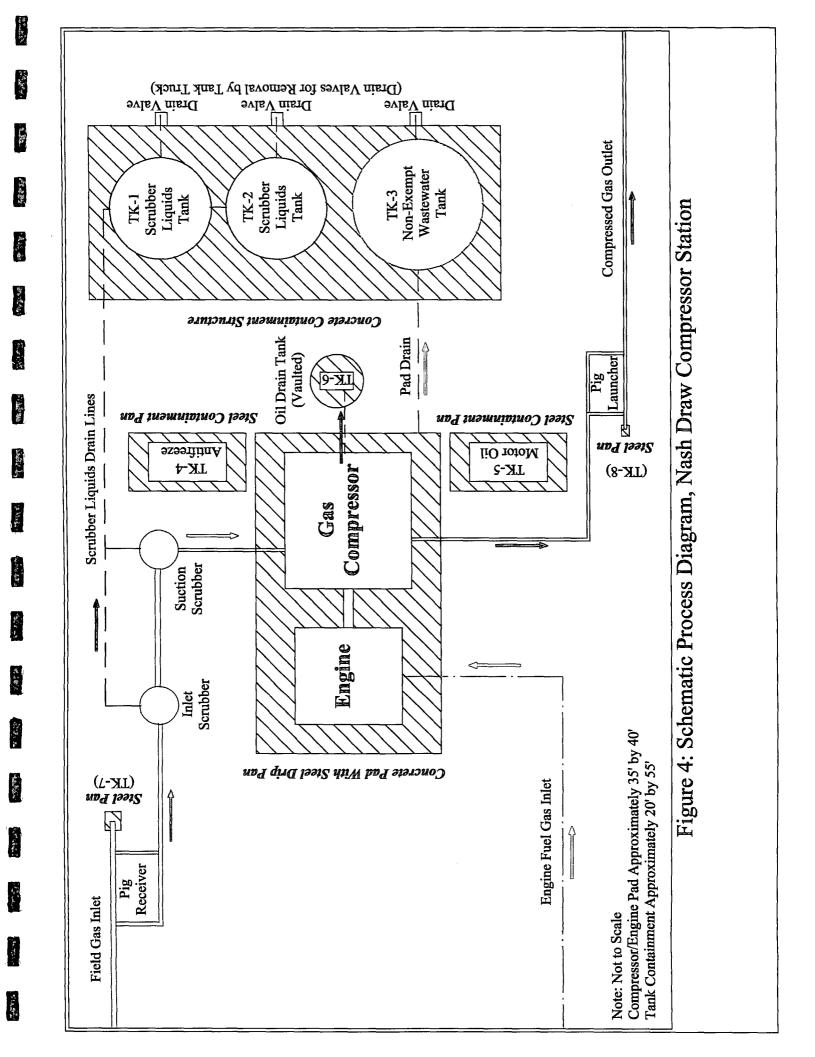
Figure 2: Wells Adjacent to Nash Draw Compressor Station







Drainage Path:



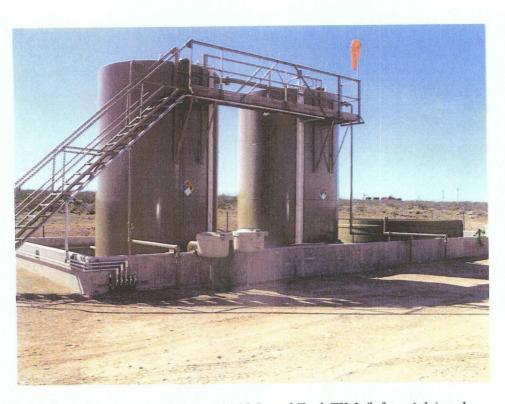


Figure 5: 210 Barrel Tanks TK-1, TK-2 and 100 Barrel Tank TK-3 (left to right) and concrete secondary containment structure.



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

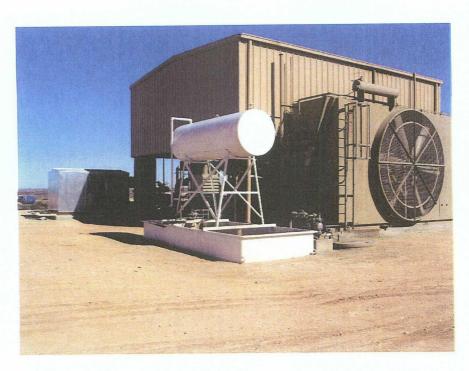


Figure 7: 1000 Gallon Steel Lubrication Oil Tank TK-5 and 1100 Gallon Steel Secondary Containment (note vault for TK-6 by lower right corner of TK-5 containment).



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

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Figure 10: Pig Waste Steel Containment TK-7 and Temporary Poly Drum (Empty)



Figure 11: Pig Waste Steel Containment TK-8

### APPENDIX A:

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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 Iu		
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 Family: Hydrocarbons		
Telephone:	Emergencies: * 1-800-363-0042	Supplier /Manufacture: Phone:	Praxair Canada Inc. 1 City Centre Drive Suite 1200 Mississauga, ON L5B 1M2 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.

INGREDIENTS	% (VOL)	CAS NUMBER	LD <sub>50</sub> (Species & Routes)	LC50 (Rat, 4 hrs.)	TLV-TWA (ACGIH)			
Natural gas (predomina methane)	antly 100	8006-14-2	Not applicable.	Not available.	None established.			
		3. Hazards Ident	ification					
		Emergency Ov	erview					
suffor		ziness and drowsi			air. Can cause rapio hing apparatus may b			
ROUTES OF EXPOSURE:	Inhalation. Eye co	ntact.						
THRESHOLD LIMIT V TLV-TWAs should be u dangerous concentratio	sed as a guide in the o	a from 2004 Guide to control of health haz	Occupationa ards and not a	I Exposure Va as fine lines be	lues (ACGIH). tween safe and			
EFFECTS OF A SINGL	E (ACUTE) OVEREX	POSURE:						
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 ex		No evidence of adverse effects from available information.					
SKIN CONTACT:			able informati	on.				

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### 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?		Forms ex oxidizing a	plosive mixtures with air and gents.
FLASH POINT (test method)	Not applicabl	e.	AUTOIGNITI TEMPERATU		482°C (899.6°F)
FLAMMABLE LIN		WER: 3.8		UPPER:	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.

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### 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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Date: 10/15/2004

roduct Name:	Natural gas	INSD:	S# E-4550-B		Date: 10/15/200
	8. E	xposure Control	s/Personal Pro	tection	
ENTILATION/E		DLS:			
	LOCAL	EXHAUST: An ex SPEC		al exhaust system is acc	eptable. See
	MECHANICA	L (general): Inadeo	quate. See SPE	CIAL.	
		SPECIAL: Use o	nly in a closed sy	/stem.	······································
		OTHER: None.			
PERSONAL PRO	DTECTION:	· · · · · · · · · · · · · · · · · · ·			
	RESPIRATORY PR	workir does r the pr based	ng in confined sp not keep exposu ovincial regulatio on the current C respirators". Re	espirator or air supplied re ace or where local exhau re below TLV. Select in a ns or guidelines. Selectio CSA standards Z94.4, "Se espirators should be appr	ist or ventilation accordance with on should also be election, care and
	SKIN PR	OTECTION: Wear	work gloves whe	en handling cylinders.	
	EYE PR	OTECTION: Wear	safety glasses w	hen handling cylinders.	
		"Indus		vith the current CSA stan ce Protection'', and any p vs or guidelines.	
0	THER PROTECTIVE E	neede Seleci "Prote	d. Cuffless trous t in accordance v	ylinder handling. Protecti ers should be worn outsi vith the current CSA stan ', and any provincial reg	de the shoes. dard Z195,
				**************************************	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	9	9. Physical and C	hemical Prope	erties	
PHYSICAL STATE:	Gas. (Compressed Gas.)	FREEZING POINT:	Not available.	рН:	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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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:			
	ASS 2.1: nmable gas.	IDENTIFICATION #: 1971	PRODUCT RQ: 100 L
SHIPPING LABEL(s)	Flammable ga	as	
PLACARD (when	Flammable ga	35	

required):

#### 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**

EINECS Not available.

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists No 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

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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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## Material Safety Data Sheet

## NATURAL GAS CONDENSATE

April 28, 1995

PHONE NUMBER	S
Emergency:	(918) 661-8118
General MSDS Infor	mation:
	(918) 661-8327
For Additional MSD	Ss: (918) 661-5952
	Emergency: General MSDS Infor

### 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

Ingredient	S	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Hydrogen sulfide		7783-06-4	0-20	10 ppm	10 ppm
C2 Hydrocarbons (A Asphyxiant	s ethane)	Various	0 - 5	NE	Simple
C3 Hydrocarbons (A Asphyxiant	s propane)	Various	0-15	1000 ppm	Simple
C4 Hydrocarbons (A	s butane)	Various	0-45	800 ppm	800 ppm
C5 Hydrocarbons (A	s pentane)	Various	5-70	600 ppm	600 ppm
C6 Hydrocarbons (A	s n-hexane)	Various	25-95	50 ppm(]	) 50 ppm(1)
may include: Cyc	lohexane	110-82-7	NE	300 ppm	300 ppm
C7 Hydrocarbons (A	s heptane)	Various	25-95	400 ppm	400 ppm
C8 Hydrocarbons (A	s octane)	Various	25-95	300 ppm	300 ppm
Aromatic Hydrocarb	ons	Various	0-10	NE	NE
may include: Be	nzene	71-43-2	NE	l ppm(2	) 10 ppm
То	luene	108-88-3	NE	100 ppm	100 ppm
Mi	xed xylene	1330-20-7	NE	100 ppm	100 ppm
Ēt	hylbenzene	100-41-4	NE	100 ppm	100 ppm
<ol> <li>As n-Hexane.</li> <li>Areas exempter a 10 ppm 8 hor</li> </ol>	d by the Be			910.1028,	will have

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### 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):	Stable Not Applicable Oxygen and strong oxidizing materials
Hazardous Polymerization: Conditions to Avoid: Hazardous Decomposition Products:	Will Not Occur Not Applicable Carbon oxides and various hydrocarbons formed when burned. Sulfur oxides may be formed if hydrogen sulfide is present.

### F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

### Acute Effects of Overexposure:

Eye: May cause irritation including pain, blurred vision,

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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 \_X\_ Suspect Carcinogen Corrosive Х Mutagen Irritant Х Teratogen Target Organ Toxin Specify - Nerve Toxin; Liver and Kidney Allergic Sensitizer Highly Toxic Toxin; Lung-Aspiration Hazard

### First Aid and Emergency Procedures:

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Eye:	Flush eye	es with	running	water	for	at	least	fifteen	minutes.
	If irrita	ation of	r adverse	sympt	oms	dev	velop,	seek med	dical
	attention	ı.							

- 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 Odor: Rotten egg odor if hydrogen sulfide is present. Boiling Point: Not Established Vapor Pressure: < 40 psia @ 70F (21C) (Estimated) Vapor Density (Air = 1): >1 Solubility in Water: Negligible Specific Gravity (H2O = 1): 0.5-0.7 (Estimated) Percent Volatile by Volume: 100 Evaporation Rate (Butyl Acetate = 1): >1 Viscosity: < 40 SUS @ 68F (20C)

### H. Fire and Explosion Data

Flash Point (Method Used): Flammable Limits (% by Volume in Air):	
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\* Packaging References: 49 CFR 173.150, 173.201, 173.202, 173.242, 173.243

\*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
	Deced on information :		atly available this produ	a+ d	one not most

\_ 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

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ExonMobil

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 OILProduct Description:Base Oil and AdditivesProduct Code:15036Intended Use:Engine oil

### COMPANY IDENTIFICATION

Supplier:Canada Imperial Oil Limited, An Affliate of Exxon Mobil Corporation<br/>P.O. Box 4029, Station A<br/>Calgary, ALBERTA. T2P 3M9Canada24 Hour Health Emergency519-339-2145Transportation Emergency Phone519-339-2145Supplier General Contact1-800-567-3776

### **SECTION 2**

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

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

**SECTION 3** 

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### 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.



Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 2 of 8

### SKIN CONTACT

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.

### 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

# ExonMobil

### 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**

### 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: Liquid Form: Clear Color: Amber Odor: Characteristic Odor Threshold: N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

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

ExonMobil

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

### 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	
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:

# ExonMobil

### 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	EARCHED
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



### Product Name: ESSOLUBE XDI 5W-30 PROPANE/CNG ENGINE OIL Revision Date: 09Nov2006 Page 7 of 8

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.

### SECTION 14 TRANSPORT INFORMATION

- 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

### **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	

REGULATORY 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

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#### 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	

**OTHER INFORMATION** 

Code key: CARC=Carcinogen; REPRO=Reproductive

## **SECTION 16**

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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, republication 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

SECTION 1: PRODUCT AND COMPANY 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.					
24-HOUR EMERGENCY PHONE NUMBERSThese numbers are for emergency use only. If you desire non-emergency product information, please call a phone number listed below.24-HOUR EMERGENCY PHONE NUMBERS TRANSPORTATION (SPILL): 1-800-752-7869						
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/ S	5400 Legacy Dr Cluster II, Buildi Plano, Texas 79 USA <b>1-800-669-5740</b>	ive ng 3 5024				
	5400 Legacy Dr Cluster II, Buildi Plano, Texas 75 USA <b>1-800-669-5740</b> www.Safety-Kle	ive ng 3 5024				
	5400 Legacy Dr Cluster II, Buildi Plano, Texas 7: USA <b>1-800-669-5740</b> www.Safety-Ki ATION: <b>1-800-669-5740</b> P	ive ng 3 5024 <b>een.com</b>				
TECHNICAL INFORM	5400 Legacy Dr Cluster II, Buildi Plano, Texas 75 USA <b>1-800-669-5740</b> www.Safety-Ki ATION: 1-800-669-5740 Pi ER: 81451	ive ng 3 5024 een.com ress 1 then 1 then Extension 7500				

				OSH	IA PEL	ACG	H TLV®		
WT%	NAME	SYNONYM	CAS NO.	TWA	STEL	TWA	STEL	<u>LD</u> a	<u>гс</u> р
80 to 100	Lubricating oils, used	Used oil	70514-12-4	N, Av.	N. Av.	N. Av.	N. Av.	N. 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.	Ν. Αν.	N. Av.	N. Av.	N. Av.	N. Av
0 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.	<b>N. Av.</b>	N. Av.	N. Av.	N. Av.	N. Av

<sup>b</sup>Inhalation-Rat LC<sub>50</sub>

## SECTION 3: HAZARDS IDENTIFICATION

## APPEARANCE

## EMERGENCY OVERVIEW

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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	EALTH EFFECTS vary depending on material composition. Typical effects may					
INHALATION	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, anausea, 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	This product contains mineral oils, untreated or mildly treated, which can 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.					
	VIRONMENTAL EFFECTS					

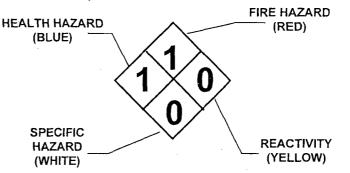
Product may be toxic to fish, plants, wildlife, and/or domestic animals. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

SECTION 4: FIRST AID MEASURES						
INHALATION: (BREATHING)	is difficult, g personnel.	fresh air. If not breathing, give artificial respiration. If breathing ive oxygen. Oxygen should only be administered by qualified Someone should stay with victim. Get medical attention if fficulty 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.					
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 COMBUSTION PRODUCTS:		Decomposition and combustion materials may be toxic. Burning may produce phosgene gas, nitrogen oxides, carbor monoxide, and unidentified organic compounds.				
CONDITIONS OF FLAMMABILITY:		Heat, sparks, or flame. Product may burn but does not ignite readily.				
EXTINGUISHING	IEDIA:	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:

FIRE AND EXPLOSION HAZARDS: 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.

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**.

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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, sparkproof tools and explosion-proof equipment. When transferring product, storage tanks, tanker trucks, and rail tank cars should be grounded 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 not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources 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	CTION 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, apron, whole body suits, or other protective clothing.					
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PERSONAL HYGIENE:	Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with the product.				
OTHER PROTECTIVE EQUIPMENT:	should be e	s and splashes are likely, facilities storing or using this product quipped with an emergency eyewash and shower, both rith 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 GRAVIT	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 <b>SECTION 5: HAZARDOUS COMBUSTION PRODUCTS</b> .
	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 OSHA 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.

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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	IENT: Not available.							
VOLATILE ORGANIC	Not available.							
COMPOUNDS:	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 ntainers. The responsibility for proper waste disposal lies with the owner Safety-Kleen regarding proper recycling or disposal.							
	SECTION 14: TRANSPORT INFORMATION							
DOT: No	pt regulated.							
TDG: No	ot regulated.							
EMERGENCY RESPO	NSE Not applicable							
GUIDE NUMBER:	Reference North American Emergency Response Guidebook							
	SECTION 15: REGULATORY INFORMATION							
USA REGULATIONS SARA SECTIONS 302 AND 304: Based on the ingredient(s) listed in SECTION 2, this product does not contain any "extremely hazardous substances" listed pursuant to Title of the Superfund Amendments and Reauthorization Act of 1986 (SARA Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.								
SARA SECTIONS	This product poses the following physical and health hazards as							

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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					
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.					
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.					
TSCA:	Not available.					
CALIFORNIA:	This product is not for sale or use in the State of California.					
CANADIAN REGULAT WHMIS:	FIONS Not regulated					
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):	Not available.					
	SECTION 16: OTHER INFORMATION					
REVISION INFORMAT	ION: Update to Section 2.					
LABEL/OTHER INFOR	ABEL/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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	Fram: Maliincka 222 Red I Phillipebr	odi Beker, mc. N Mallini School Lane arg. NJ 08865	ckrodt JT.Baker	Dutside U.S. and Canada Chemiter: 70:557-5487 WOTE: Def KTEFF; CUBICTEC: and fast well functions can amazine versioners to the Left: Cuty to the and "X" disarrow strategy course	
	Air ron	E E-MISSINGY QUINNEEDS 900005 500005 50 24000	at le Cuscher Service (1	encineng a coll acts loss account of account a	
		ETHYLE	NE GL	YCOL	
1. Product Identification					
Synonyms: 1,2-Ethanediol; glycol; CAS No.: 107-21-1 Molecular Weight: 62.07 Chemical Formula: CH2OHCH2O: Product Codes: J.T. Baker: 5387, 5845, 9140, 9298, Mallinckrodt: 5001, 5037	н	ne Alcohol: Ethulene	Dihydrate		
2. Composition/Information	an Ingredients				
Ingredient	CAS No	Percent	Hazardous		
Ethylene Glycol	107-21-1	99 - 100¥	Yes		
Emergency Overview 	FATION TO SKIN, EYES,			DRBED THROUGH SKIN. MAY C Affects central nervous s	
Emergency Overview 	ATION TO SKIN, EYES, d here for your convenience) 	AND RESPIRATOI	RY TRACT. 4 	AFFECTS CENTRAL NERVOUS S	
WARNING: HARMFUL OR FAT REACTION, MAY CAUSE IRRIT SAF-T-DATA <sup>(tm)</sup> Ratings (Provide: Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGCLES &	ATION TO SKIN, EYES, d here for your convenience) 	AND RESPIRATOI	RY TRACT. 4 	AFFECTS CENTRAL NERVOUS S	
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Emergency Overview WARNING! HARMFUL OR FAT REACTION. MAY CAUSE IRRIT SAF-T-DATA <sup>(tm)</sup> Ratings (Provide: Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGGLES & Storage Color Code: Green (General Potential Health Effects Potential Health Effects Inhalation: Vapor inhalation is generally not a pr vomiting, dizziness and drowsiness. I movement and coma. Ingestion: Initial symptoms in massive dosage p stupor, collapse, and unconsciousness; Skin Contact: Minor skin irritation and penetration Eye Contact: Splashes may cause irritation, pain, e	FATION TO SKIN, EYES, d here for your convenience) SHIELD; LAB COAT & AF Storage) roblem unless heated or miste Pulmonary edema and central harallel alcohol intoxication, p with convulsions. Death fro may occur.	AND RESPIRATOI	RY TRACT. /  ); PROPER GL  s over an exter ression may als  epression, vom	AFFECTS CENTRAL NERVOUS S OVES ided time period has caused throat irri is develop. When heated or misted, hi	YSTEM. tation and headache. May cause nause s produced rapid, involuntary eye heart rate, lowered blood pressure,
Emergency Overview WARNING! HARMFUL OR FAT REACTION. MAY CAUSE IRRIT SAF-T-DATA <sup>(tm)</sup> Ratings (Provided Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGGLES & Storage Color Code: Green (General Potential Health Effects Inhalation: Vapor inhalation is generally not a pr vomiting, dizziness and drowsiness. I movement and coma. Ingestion: Initial symptoms in massive dosage p stupor, collapse, and unconsciousness Skin Contact: Minor skin irritation and penetration Eye Contact: Splashes may cause irritation, pain, e Chronic Exposure: Repeated small exposures by any rou Aggravation of Pre-existing Condit Persons with pre-existing skin disord	FATION TO SKIN, EYES, d here for your convenience) SHIELD; LAB COAT & AF Storage) roblem unless heated or miste Pulmonary edema and central parallel alcohol intoxication, p s with convulsions. Death fro may occur. ye damage. te can cause severe kidney pr ions: ers, eye problems, or impaire	AND RESPIRATOI PRON; VENT HOOD d. Exposure to vapor nervous system depr progressing to CNS do m respiratory arrest o oblems. Brain damag d liver, kidney, or res	RY TRACT. /  s over an exter ression may als  epression, vom r cardiovascul ee may also occ piratory functio	AFFECTS CENTRAL NERVOUS S OVES Noves Noves Noves Near a second second second second second Near collapse may follow. Lethal dose in Sur. Skin allergy can develop. May da on may be more susceptible to the eff	Ation and headache. May cause nause s produced rapid, involuntary eye heart rate, lowered blood pressure, humans: 100 ml (3-4 ounces).
Emergency Overview WARNING! HARMFUL OR FAT REACTION. MAY CAUSE IRRIT SAF-T-DATA <sup>(tm)</sup> Ratings (Provide: Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGGLES & Storage Color Code: Green (General Potential Health Effects Inhalation: Vapor inhalation is generally not a pr vomiting, dizziness and drowsiness. I movement and coma. Ingestion: Initial symptoms in massive dosage p stupor, collapse, and unconsciousness Skin Contact: Minor skin irritation and penetration Eye Contact: Splashes may cause irritation, pain, e Chronic Exposure: Repeated small exposures by any rou Aggravation of Pre-existing Condit	FATION TO SKIN, EYES, d here for your convenience) SHIELD; LAB COAT & AF Storage) roblem unless heated or miste Pulmonary edema and central parallel alcohol intoxication, p s with convulsions. Death fro may occur. ye damage. te can cause severe kidney pr ions: ers, eye problems, or impaire	AND RESPIRATOI PRON; VENT HOOD d. Exposure to vapor nervous system depr progressing to CNS do m respiratory arrest o oblems. Brain damag d liver, kidney, or res	RY TRACT. /  s over an exter ression may als  epression, vom r cardiovascul ee may also occ piratory functio	AFFECTS CENTRAL NERVOUS S OVES Noves Noves Noves Near a second second second second second Near collapse may follow. Lethal dose in Sur. Skin allergy can develop. May da on may be more susceptible to the eff	Ation and headache. May cause nause s produced rapid, involuntary eye heart rate, lowered blood pressure, humans: 100 ml (3-4 ounces).
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Emergency Overview WARNING! HARMFUL OR FAT REACTION. MAY CAUSE IRRIT SAF-T-DATA <sup>(tm)</sup> Ratings (Provide- Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protetive Equip: GOGCLES & Storage Color Code: Green (General Potential Health Effects Inhalation: Vapor inhalation is generally not a pr vomiting, dizziness and drowsiness. I movement and coma. Ingestion: Ningestion: Repeated small exposure: Repeated small exposure: Repeated small exposure: Repeated small exposures by any rou Aggravation of Pre-existing Condit Persons with pre-existing condit Persons with pre-existing skin disord First Aid Measures Induce vomiting immediately as direct Skin Contact: Remove to fresh air. If not breathing, Ingestion: Induce vomiting immediately as direct Skin Contact: Remove any contaminated clothing. M Eye Contact:	FATION TO SKIN, EYES, d here for your convenience) SHIELD; LAB COAT & AF Storage) oblem unless heated or miste Pulmonary edema and central parallel alcohol intoxication, p s with convulsions. Death fro may occur. ye damage. te can cause severe kidney pr ions: ers. eye problems, or impaire give artificial respiration. If I ted by medical personnel. No Vash skin with soap and wate	AND RESPIRATOI PRON; VENT HOOD d. Exposure to vapor: nervous system depr progressing to CNS da m respiratory arrest o oblems. Brain damag d liver, kidney, or res preathing is difficult, ; ever give anything by tr for at least 15 minu	RY TRACT. /  s over an exter ression may als epression, vom r cardiovascul et may also occ piratory functi- give oxygen. C mouth to an uz tes. Get medic	AFFECTS CENTRAL NERVOUS S OVES OVES Unded time period has caused throat irri- to develop. When heated or misted, ha niting, headache, rapid respiratory and ar collapse may follow. Lethal dose in cur. Skin allergy can develop. May da on may be more susceptible to the eff Call a physician. neonscious person. Get medical attent al attention if irritation develops or pe	Ation and headache. May cause nause s produced rapid, involuntary eye heart rate, lowered blood pressure, humans: 100 ml (3-4 ounces). nage the developing fetus. sets of this substance.
Emergency Overview WARNING! HARMFUL OR FAT REACTION. MAY CAUSE IRRET SAF-T-DATA <sup>(tm)</sup> Ratings (Providee Health Rating: 2 - Moderate (Life) Flammability Rating: 1 - Slight Contact Rating: 3 - Severe (Life) Lab Protective Equip: GOGGLES & Storage Color Code: Green (General Potential Health Effects Inhalation: Vapor inhalation is generally not a pr vomiting, dizziness and drowsiness. I movement and coma. Ingestion: Indica Small cause irritation, pain, effort contact: Splashes may cause irritation, pain, effort contact: Splashes may cause irritation, pain, effort contact: Splashes may cause irritation, pain, effort cause is study of Pre-existing Condit Persons with pre-existing skin disord First Aid Measures Induce vomiting immediately as direc Skin Contact: Remove to fresh air. If not breathing, Ingestion: Induce vomiting immediately as direc Skin Contact:	FATION TO SKIN, EYES, d here for your convenience) SHIELD; LAB COAT & AF Storage) oblem unless heated or miste Pulmonary edema and central parallel alcohol intoxication, p s with convulsions. Death fro may occur. ye damage. te can cause severe kidney pr ions: ers. eye problems, or impaire give artificial respiration. If I ted by medical personnel. No Vash skin with soap and wate	AND RESPIRATOI PRON; VENT HOOD d. Exposure to vapor: nervous system depr progressing to CNS da m respiratory arrest o oblems. Brain damag d liver, kidney, or res preathing is difficult, ; ever give anything by tr for at least 15 minu	RY TRACT. /  s over an exter ression may als epression, vom r cardiovascul et may also occ piratory functi- give oxygen. C mouth to an uz tes. Get medic	AFFECTS CENTRAL NERVOUS S OVES OVES Unded time period has caused throat irri- to develop. When heated or misted, ha niting, headache, rapid respiratory and ar collapse may follow. Lethal dose in cur. Skin allergy can develop. May da on may be more susceptible to the eff Call a physician. neonscious person. Get medical attent al attention if irritation develops or pe	Ation and headache. May cause nause s produced rapid, involuntary eye heart rate, lowered blood pressure, humans: 100 ml (3-4 ounces). nage the developing fetus. sets of this substance.

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 meatment 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):

Personal Respirators (NOSH 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 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 P100 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.

Eye 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: 1.1 @20C/4C pH: 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 oxidizing 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 LD50: 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\			
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 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 has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is 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

Ingredient		TSCA	EC	Japan	Australia
Ethylene Glycol (107-21-1)					Yes
	2\				
			C	anada	
Ingredient		Korea			Phil.
•••••••••••••••••••••••••••••••••••••••					
Ethylene Glycol (107-21-1)		Yes	Yes	No	Yes
Ingredient	RQ	TPQ	Li	st Cher	A 313 nical Catg
					No
Ethylene Glycol (107-21-1)	No	No	iei	•	
		.ons -	Part 3	2\	
Ethylene Glycol (107-21-1) \Federal, State & International Re	egulati	.ons -	Part : -RCRA	2\ TS	SCA-
Ethylene Glycol (107-21-1)	egulati CERCI	.ons - "A	Part 2 -RCRA- 261.32	2\ 	5CA- (d)

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.

#### 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

Product Use: Laboratory Reagent Revision Information: No Information Found.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR RURPS ON IMPLIED, INCLUDING WITHOUT LIMITATION WARKANTIES OF WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

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

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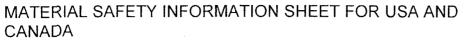
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E. A. S.





SEC	SECTION 1: PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME:	USED ANTIFREEZE					
SYNONYMS:	<b>ONYMS:</b> 1,2-Ethanediol; 1,2-Ethylene glycol; 2-Hydroxyethanol; Ethylene alcoho					
PRODUCT CODE:	ODUCT CODE: Prefix 95P					
PRODUCT USE:	PRODUCT USE:Used automotive coolant.If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.					
24-HOUR EMERGENCY PHONE NUMBERS         These numbers are for       MEDICAL:       TRANSPORTATION (SPILL):         emergency use only. If       If						
	please call a phone					
SUPPLIER:	Safety-Kleen 5400 Legacy Drive Cluster II, Building 3 Plano, Texas 75024 USA <b>1-800-669-5740</b>					
TECHNICAL INFORM	ATION: 1-800-669-5740 Press	1 then Enter 7500				
MSDS FORM NUMBE	<b>R:</b> 82912	ISSUE: February 20, 2003				
ORIGINAL ISSUE: Fe	bruary 20, 2003	SUPERSEDES: Not applicable.				
PREPARED BY: Prod						

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

				<u>OSHA</u>	PEL**	ACGI	<u>H TLV<sup>®</sup></u>		
WT%	NAME	SYNONYM	CAS NO.	TWA	STEL	TWA	STEL	LD <sup>a</sup>	<u>LC</u> b
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)°	10876 mg/kg
4-44	1,2-Propylene glycol	N.Av.	57-55-6	N.Av. °	N.Av.	N.Av.	N.Av.	20 gm/kg (20800 mg/kg) <sup>c</sup>	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.

\*\*OSHA Final PEL value (enforceable). Some States have adopted more stringent values. N.Av. = Not Available <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!**

#### 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 CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of 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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NOTE TO PHYSICIANS:	warranted, s Treatment r 1-800-752-7 Ethylene gly metabolites signs and s acidosis, ce currently re- includes elir metabolic a substrate fo early stages metabolites potent inhib formation of described ir Respiratory pressure ma later stages	should be performed by qua may vary with condition of vi 7869 for additional informati- ycol is metabolized by alcoh- including glycoaldehyde, gl ymptoms in ethylene glycol- entral nervous system depre commended medical manag- mination of ethylene glycol a cidosis, and prevention of k or alcohol dehydrogenase, e s of intoxication because it b . A more effective intraveno- itor of alcohol dehydrogenase f toxic metabolites. Pulmona n a number of patients follow support with mechanical ve ay be required. There may b of toxicity from swallowing	ictim and specifics of incident. Call				
	SECTI	ON 5: FIRE FIGHTING ME	ASURES				
FLASH POINT:		>200°F (>93.3°C)					
FLAMMABLE LIN	IITS IN AIR:	LOWER: 3.2 VOL% (ethylene glycol)	<b>UPPER:</b> 15.3 VOL% (ethylene glycol)				
TEMPERATURE:							

748°F (398°C) (ethylene glycol) Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

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

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

HAZARDOUS COMBUSTION

PRODUCTS:

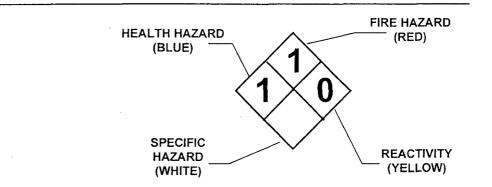
CONDITIONS OF

FLAMMABILITY:

**NFPA 704** 

**HAZARD IDENTIFICATION:** This information is intended solely for the use by individuals trained in this system.

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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				
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 ventilated area. Avoid contact with eyes, skin, clothing, and shoes.				
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				

Revision 2/03; MSDS Form No. 82912 - Page 5 of 10

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

**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.

OTHER PROTECTIVE EQUIPMENT:

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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SECTION 9: PHYSICAL 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 68ºF (20ºC)					
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:	LOWER: 3.2 VOL% (ethylene glycol) UPPER: 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, or 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.
	Revision 2/03; MSDS Form No. 82912 - Page 7 of 10

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s s	SECTION 11: TOXICOLOGICAL INFORMATION					
SENSITIZATION:	Ethylene glycol has demonstrated human effects	s 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 demo effects of reproductive toxicity.	onstrated animal				
TERATOGENICITY:	Ethylene glycol and diethylene glycol have demonstrated animal effects of teratogenicity.					
TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):	Based on best current information, there are no synergistic products associated with this product					
	SECTION 12: ECOLOGICAL INFORMATION					
ECOTOXICITY:	Ethylene glycol (107-21-1)         Test & Species         96 Hr LC50       41000 mg/L         rainbow trout       96 Hr LC50       27500 mg/L         bluegill       96 Hr LC50       27500 mg/L         96 Hr LC50       27500 mg/L       goldfish         1,2-Propylene glycol (57-55-6)       24 Hr LC50       5000 mg/L         goldfish       48 Hr LC50 guppy       10000 mg/L	Conditions				
	Diethylene glycol (111-46-6) 96 Hr LC50 fathead 75200 mg/L minnow	flow-through				

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OCTANOL/WATER PARTITION COEFFICIENT: VOLATILE ORGANIC COMPOUNDS:

Not available.

	SECTIO	ON 13: DISPOSAL CONSIDERATIONS			
<b>DISPOSAL:</b> 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.					
<b>USEPA WASTE</b> <b>CODES(S):</b> 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.					
	SECTI	ON 14: TRANSPORT INFORMATION			
DOT:	Shipping	Name: Not regulated as a hazardous material for transportation.			
TDG: Shipping Name: Not regulated as a dangerous good for transportation.					
EMERGENCY RE GUIDE NUMBER		Not applicable. Reference North American Emergency Response Guideboo			

## SECTION 15: REGULATORY INFORMATION

## **USA REGULATIONS**

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

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. WHMIS: Class D2A - Contains component that may cause cancer. Class D2B - Irritating to eyes and skin.

CANADIANAll the components of this product are listed on, or are automaticallyENVIRONMENTALincluded as "substance occurring in nature" on, or are exempted from the<br/>requirements to be listed on, the Canadian Domestic Substances List<br/>(DSL).ACT (CEPA):(DSL).

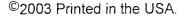
#### **SECTION 16. OTHER INFORMATION**

**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.





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# **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

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

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Page 1 of 3

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	Analytical	Container	Preservation	Holding Time
	(TCLP) mg/kg	Method			
Benzene	0.5	8240A (GC/MS)	2x 40 ml VOA	Cool to 4 <sup>0</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 $4^0$ C.	6 Months
Lead	5.0	7420 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^0$ C.	6 Months
Selenium	1.0	7740 (AA)	1 L HDPE	Nitric Acid to $pH < 2$ , Cool to $4^0$ 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
рH	<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 <sup>0</sup> 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: Nash Draw Compressor Project Number: None Given Location: West of Jal

Lab Order Number: 7C27005

Report Date: 04/05/07

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#### Project: Nash Draw Compressor Project Number: None Given Project Manager: Tony Savoie

Fax: 505-395-2326

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Nash Draw	7C27005-01	Water	03/26/07 13:11	03-27-2007 10:30

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## Project: Nash Draw Compressor Project Number: None Given Project Manager: Tony Savoie

Fax: 505-395-2326

# General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nash Draw (7C27005-01) Water									
Ignitability by Flashpoint	[>85.0]		°C	1	ED70501	04/04/07	04/04/07	EPA 1010A / ASTM D93-80	
рН	7.26		pH Units		EC72904	03/28/07	03/28/07	EPA 150.1	O-04

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.

Page 2 of 10

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Project:Nash Draw CompressorProject Number:None GivenProject Manager:Tony Savoie

#### TCLP Metals 1311 by EPA / Standard Methods

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Extracted	Prepared	Analyzed	Method	Notes
Nash Draw (7C27005-01) Water										
Mercury	ND	0.000250	mg/L	1	EC73019	tclp 3-28-07	03/29/07	03/30/07	EPA 7470A	
Chromium	0.293	0.00975	9	10	EC73020	"	03/29/07	03/30/07	EPA 6020A	
Arsenic	0.0251	0.0170	11	п	۳.,	n	u	"	"	
Selenium	0.122	0.0300	n	"	*	н	n	н	"	
Silver	ND	0.00405			"	n	"	*	"	
Cadmium	J [0.00414]	0.00692		"	н	**	н	н		J
Barium	0.0172	0.00489	۳	"		"	и	*		
Lead	0.00809	0.00296	v	"	"	и	н	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

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Project: Nash Draw 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
Nash Draw (7C27005-01) Water									A. 1718	
Benzene	0.576	0.00100	mg/L	1	EC73101	03/28/07 TCLP	03/31/07	03/31/07	EPA 8021B	
Toluene	0.0433	0.00100	"	"		n		н	n	
Ethylbenzene	0.0157	0.00100	u	"		n	u	н	n	
Xylene (p/m)	0.136	0.00100	**	"		н	"	"	"	
Xylene (0)	0.106	0.00100	н	11	"	"	"		"	
Surrogate: a,a,a-Trifluorotoluene		132 %	80	-120	н	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		91.6%	80	-120	n	"	17	"	"	

Environmental Lab of Texas

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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.

Page 4 of 10

Southern Union Gas Services- Jal	Project: Nash Draw Compressor	Fax: 505-395-2326
P.O. Box 1226	Project Number: None Given	
Jal NM, 88252	Project Manager: Tony Savole	

## 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	Note
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	1		
Calibration Check (EC72904-CCV2)				Prepared &	Analyzed	03/28/07				
pH	6.98		pH Units	7.00		99.7	97.5-102.5			
Duplicate (EC72904-DUP1)	Sour	ce: 7C26010-	-01	Prepared &	Analyzed:	03/28/07				
pH	8.12		pH Units		8.08			0.494	20	
Duplicate (EC72904-DUP2)	Sour	ce: 7C27011-	-01	Prepared &	Analyzed:	03/28/07				
pH	7.59		pH Units		7.58			0.132	20	
Batch ED70501 - General Preparation (	WetChem)									
LCS (ED70501-BS1)				Prepared &	z Analyzed	04/04/07				
Ignitability by Flashpoint	29.0		°C	29.0		100	96-104			
Duplicate (ED70501-DUP1)	Sour	ce: 7C27005-	-01	Prepared &	z Analyzed:	04/04/07				
Ignitability by Flashpoint	[>85.0]		°C		0.00				20	

Environmental Lab of Texas

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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.

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

#### Environmental Lab of Texas

		Reporting	<b>.</b>	Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC73019 - EPA 1311/7470A	<u></u>		·····							
Blank (EC73019-BLK1)				Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Мегсшу	ND	0.000250	mg/L							
LCS (EC73019-BS1)				Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Мегсигу	0.000850	0.000250	mg/L	0.00100		85.0	85-115			
LCS Dup (EC73019-BSD1)				Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Mercury	0.000980	0.000250	mg/L	0.00100		98.0	85-115	14.2	20	
Calibration Check (EC73019-CCV1)				Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Мегсигу	0.000900		mg/L	0.00100		90.0	90-110			
Matrix Spike (EC73019-MS1)	Sou	rce: 7C22001-	02	Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Mercury	0.00106	0.000250	mg/L	0.00100	ND	106	75-125			
Blank (EC73020-BLK1)				Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Chromium	ND	0.000975	mg/L	Flepared. 0	5/29/07	Analyzeu. 0.				
Arsenic	ND	0.00170	"							•
Selenium	ND	0.00300	н							
Silver	ND	0.000405								
Cadmium	ND		"							
Cadmium Barium	ND ND	0.000692	**							
Barium	ND ND ND		17 17 12							
Cadmuum Barium Lead LCS (EC73020-BS1)	ND	0.000692 0.000489		Prepared: 0	3/29/07	Analyzed: 03	3/30/07			
Barium Lead	ND	0.000692 0.000489		Prepared: 0 0.200	3/29/07	Analyzed: 03 95.0	3/30/07 85-115			
Barium Lead LCS (EC73020-BS1)	ND ND	0.000692 0.000489 0.000296	Ŧ	•	3/29/07					
Barium Lead LCS (EC73020-BS1) Chromium Arsenic	ND ND 0.190	0.000692 0.000489 0.000296	" mg/L	0.200	3/29/07	95.0	85-115			
Barium Lead LCS (EC73020-BS1) Chromium Arsenic Selenium	ND ND 0.190 0.737	0.000692 0.000489 0.000296 0.000975 0.00170	" mg/L	0.200	3/29/07	95.0 92.1	85-115 85-115			
Barium Lead LCS (EC73020-BS1) Chromium Arsenic Selenium Silver	ND ND 0.190 0.737 0.396	0.000692 0.000489 0.000296 0.000975 0.000975 0.00170 0.00300	" mg/L "	0.200 0.800 0.400	3/29/07	95.0 92.1 99.0	85-115 85-115 85-115			
Barium Lead LCS (EC73020-BS1) Chromium	ND ND 0.190 0.737 0.396 0.104	0.000692 0.000489 0.000296 0.000975 0.00170 0.00300 0.000405	" mg/L "	0.200 0.800 0.400 0.100	3/29/07	95.0 92.1 99.0 104	85-115 85-115 85-115 85-115			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC73020 - EPA 1311/3005										
LCS Dup (EC73020-BSD1)				Prepared: (	)3/29/07 Ar	nalyzed: 03	/30/07			
Chromium	0.189	0.000975	mg/L	0.200		94.5	85-115	0.528	20	
Arsenic	0.732	0.00170	н	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 Ar	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: (	)3/29/07 Ai	nalyzed: 03	/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	**	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	μ	0.200	ND	95.0	75-125			
Barium	0.253	0.00489	11	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	rce: 7C22001-	02	Prepared: (	)3/29/07 Ai	nalyzed: 03	/30/07			
Chromium	0.177	0.00975	mg/L	0.200	ND	88.5	75-125	0.567	20	
Arsenic	0.743	0.0170	н	0.800	ND	92.9	75-125	0.671	20	
Selenium	0.375	0.0300	ч	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		0.200	0.0804	86.3	75-125	0.00	20	
Lead	0.835	0.00296	"	1.10	ND	75.9	75-125	0.601	20	

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

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Project:Nash Draw CompressorProject Number:None GivenProject 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
	Kesun	Linut	OILIS		RESUL	/orec	Linne	N'D		INDICS
Batch EC73101 - EPA GC 1311								····		
Blank (EC73101-BLK1)				Prepared &	: Analyzed:	03/31/07				
Benzene	ND	0,00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0,00100	"							
Xylene (p/m)	ND	0.00100	н							
Xylene (o)	ND	0.00100	n							
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 &	Analyzed:	03/31/07				
Benzene	0.0452	0.00100	mg/L	0.0500		90.4	80-120			
Toluene	0.0435	0.00100	n	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	"	0.100		86. I	80-120			
Xylene (o)	0.0458	0.00100		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: 0	)3/31/07 Ar	nalyzed: 04	/02/07			
Benzene	50.6		ug/l	50.0		101	80-120			
Toluene	47.8		н	50.0		95.6	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	91.0		"	100		91.0	80-120			
Xylene (0)	49.0		**	50.0		98.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.0		"	50.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	45.0		"	50.0		90.0	80-120			
Duplicate (EC73101-DUP1)	Sou	rce: 7C26001-	01	Prepared: 0	)3/31/07 At	nalyzed: 04	/02/07			
Benzene	0.000631	0,00100	mg/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	"		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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Southern Union Gas Services- Jal P.O. Box 1226 Jal NM, 88252 Project: Nash Draw Compressor Project Number: None Given Project Manager: Tony Savoie

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

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

		Perarting		Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC73101 - EPA GC 1311										
Matrix Spike (EC73101-MS1)	Sour	rce: 7C26001-	01	Prepared: (	03/31/07 Ar	alyzed: 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		0.0500	ND	99.0	80-120			
Xylene (p/m)	0.0957	0.00100	"	0.100	0.00143	94.3	80-120			
Xylene (0)	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			

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

#### Project: Nash Draw 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.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Barron

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

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Environmental Lab of Texas

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Date:

# **Analytical Report 279738**

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# Southern Union Gas Services-Jal

**Project Manager: Tony Savoie** 

Nash Draw Compressor

04-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



04-APR-07



Project Manager: Tony Savoie Southern Union Gas Services-Jal 610 Commerce Jal, NM 88252

Reference: XENCO Report No: 279738 Nash Draw Compressor Project Address: West of Jal, NM

#### Tony Savoie:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 279738. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 279738 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron Odessa Laboratory Director

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XENCO	aboratories	Project Id:
X	٩	

Contact: Tony Savoie

Certificate of Analysis Summary 279738 Southern Union Gas Services-Jal, Jal, NM Project Name: Nash Draw Compressor



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Date Received in Lab: Tue Mar-27-07 10:30 am Report Date: 04-APR-07

Project Location. West of Ial NM			Keport Date	Report Date: 04-APR-07	
			Project Manager	Project Manager: Brent Barron, II	
	Lab Id:	279738-001			
Australa Domastad	Field Id:	Nash Draw			
naicanhayi sissimuv	Depth:				
	Matrix:	WATER			
	Sampled:	Mar-26-07 13:11			
Reactive Cvanide hv FPA 9010	Extracted:				
	Analyzed:	Mar-29-07 17:16			
	Units/RL:	mg/L RL			
Cyanide		ND 0.200			
Reactive Sulfide hv SW 9030B	Extracted:				
	Analyzed:	Mar-27-07 17:35			
	Units/RL:	mg/L RL			
Sulfide		56.0 50.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the base judgment of XENCO Laboratories. XENCO: Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited on the amount invoiced for this work order unless otherwise agreed to in wring. Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Odessa Laboratory Director Brent Barron

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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.

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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



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# Project Name: Nash Draw Compressor

Work O	rder #:	279738
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### **Project ID:**

Lab Batch #: 694179 Date Analyzed: 03/29/2007	Sample: 69417 Date Prepared: 03/29		Matrix: Water Analyst: MAB						
Reporting Units: mg/L	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY			
Reactive Cyanide by EPA 9010	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags			
Analytes	()		[C]	[D]					
Cyanide	ND	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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**BS / BSD Recoveries** 



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Project Name: Nash Draw Compressor

Work Order #: 279738 Analyst: MAB

03/27/2007 ----Date Prepared: Batch #:

Date Analyzed: 03/27/2007 Matrix: Water Project ID:

		Flag	
	Y	Control Limits %RPD	20
Water	RY STUD	Control Limits %R	60-120
Matrix: W	RECOVE	RPD %	5
Г	ICATE 1	Blk. Spk Dup. %R [G]	93
	<b>3LANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY</b>	Blank Spike Duplicate Result [F]	7370
	LANK S	Spike Added [E]	7910.0
	PIKE / B	Blank Spike %R [D]	98
<del>1</del>	K /BLANK S	Blank Spike Result [C]	7770
Batch #:	BLANI	Spike Added [B]	7910
BKS		Blank S Sample Result A [A]	ND
l Sample: 694181-1-	g/L	fide by SW 9030B	
Lab Batch ID: 694181	Units: mg/L	Reactive Sul Analytes	Sulfide

Relative Percent Difference RPD = 200\*[(D-F)/(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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# Sample Duplicate Recovery



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### Project Name: Nash Draw Compressor

Work Order # 279738

Lab Batch #: 694179		20/2007	Project I		
Date Analyzed: 03/29/2007 Date I	repared: 03/	29/2007	Analy		
QC- Sample ID: 279744-001 D	Batch #:	1	Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Reactive Cyanide by EPA 9010	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Cyanide	ND	ND	NC	20	
Lab Batch #: 694181					
	repared: 03/	27/2007	Analy	st: MAB	
QC- Sample ID: 279744-001 D	Batch #:	1	Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Reactive Sulfide by SW 9030B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfide	56.0	ND	NC	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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14.27	AND		це: <b>Т</b>	ا #	ÿ	#			TCLP	TOTAL	(503, HCO3)	Anions (Cl, SO4, C					-		Labo Samp	Custo	p p Samt	Temp	
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### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ient: Southern Union Gas

JMM

ate/ Time: 03-27-07 @ 1030

10 ID #: 7C27005

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### Sample Receipt Checklist

			not frozen Cli	ent Initials
1 Temperature of container/ cooler?	Yes	No	-3.0 °C	
2 Shipping container in good condition?	(Yes)	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	17 Yes	No		
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont /Lie	
9 Container label(s) legible and intact?	Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custo	ody? (es)	No		
11 Containers supplied by ELOT?	(ves)	No		
12 Samples in proper container/ bottle?	Yes	No	* See Below	
13 Samples properly preserved?	Yes	No	* See Below	
t14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	(es)	No		
#16 Containers documented on Chain of Custody?	(Tes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Tes)	No	See Below	
#18 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	
Contact: Tory Sanoie Contacted by: Regarding: TCLP BTEX preservation	Documentation Jeanne MCMI	urray	Date/Time: 03	3-27-0
Corrective Action Taken:	· · · · · · · · · · · · · · · · · · ·			
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## 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 Nash Draw Compressor Station, located in the Northeast Quarter of Southeast Quarter of Section 30, Township 24 South, Range 30 East in Eddy County, New Mexico (32<sup>°</sup>, 11.118' North, 103<sup>°</sup> 54.794'West). This location is at an elevation of 3200 feet, approximately 25 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 at a depth of approximately 100 to 300 feet and has a total dissolved solids of approximately 2500 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

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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.