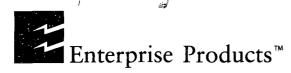
# **GW - 232**

# GENERAL CORRESPONDENCE

# 2008 - 2010



### RECEIVED

ENTERPRISE PRODUCTS PARTNER LLC ENTERPRISE PRODUCTS OF ANTHER ENTERPRISE PRODUCTS OPERATING LLC ENTERPRISE PRODUCTS OLPGP, INC., SOLE MANAGER

December 8, 2008

Return Receipt Requested 7008 1140 0004 9601 6283

Jim Griswold, Hydrologist Environmental Bureau New Mexico Oil Conservation Division 1220 S. St. Frances Drive Santa Fe, NM 87505

Re: Enterprise Field Services Trunk A Facility Discharge Plan GW-265

Dear Mr. Griswold:

This letter is in response to a letter received from the New Mexico Oil Conversation Division (NMOCD) on September 30, 2008. The NMOCD has requested closure regarding the following items.

- 1. Compressor concrete slab is still on site with protruding underground conduits. Enterprise shall remove concrete slab and conduits.
- 2. Used and remaining debris, tanks, and barrels need to be removed and properly disposed of. Enterprise shall properly remove unused items, waste and clean up any soil contamination on site.
- 3. An unused saddle tank is left in the yard. If the tank is not longer needed for operation of this facility it shall be removed from the site. Enterprise shall remove this tank if not in use.

Enterprise proposes to close the above items in the following ways

- 1. Enterprise wishes to keep the concrete along with associated conduits in place. There is a possibility that Enterprise may place another compressor at this location. Enterprise will amend the submitted discharge plan to reflect this change.
- 2. Enterprise has removed all used and remaining debris, tanks, and barrels. All unused items and contaminated soil has been removed and disposed of in State of New Mexico approved locations.
- 3. The saddle tank referred to is in use. Enterprise will maintain this tank onsite with in proper secondary containment.

Enterprise Field Services Trunk A Facility Discharge Plan GW-265

Included with this submittal is a Discharge Renewal Application and Plan.

If you have questions or require additional information, please contact Jennifer Corser, Field Environmental Scientist at (432) 230-1414 or me directly at (713) 880-6518.

Yours truly,

**Enterprise Field Services LLC Enterprise Products Operating LLC** 

~ 2

Mary E. Hebert Director, Environmental Compliance

/sjn cc: David Jaquez

16 <u>Di</u> 13 <u>Di</u> 10 <u>Di</u>	District II       Energy Minerals         Joistrict III       Oil Conset         1000 Rio Brazos Road, Aztec, NM 87410       District IV         District IV       1220 South	New Mexico and Natural Resources rvation Division h St. Francis Dr. e, NM 87505	Revised June 10, 2003 Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office
	DISCHARGE PLAN APPLICATION FOR REFINERIES, COMPRESSOR, AND CRUDE OIL 1 (Refer to the OCD Guidelines for assis	, GEOTHERMAL FACILIT PUMP STATIONS	
	🗌 New 🛛 Renew	al 🗌 Modification	
١.	. Type: Carlsbad Trunk A Facility		
2.	Operator: <u>Enterprise Field Services, LLC.</u>		
	Address: <u>PO Box 4324 Houston, TX77210-4324</u>		
	Contact Person: <u>Jennifer Corser</u> Phone:	432-230-1414	
3.	. Location: <u>NW/4 SE/4</u> Section <u>10</u> Township Submit large scale topograph	23 South Range 26 East Range showing exact location.	
4.	. Attach the name, telephone number and address of the lan	ndowner of the facility site.	
5.	. Attach the description of the facility with a diagram indication	ating location of fences, pits, dikes and	d tanks on the facility.
6.	Attach a description of all materials stored or used at the f	facility.	
7.	. Attach a description of present sources of effluent and wa must be included.	ste solids. Average quality and daily v	volume of waste water
8.	Attach a description of current liquid and solid waste colle	ection/treatment/disposal procedures.	
9.	Attach a description of proposed modifications to existing	g collection/treatment/disposal systems	3.
10.	0. Attach a routine inspection and maintenance plan to ensu	re permit compliance.	
11.	1. Attach a contingency plan for reporting and clean-up of s	spills or releases.	
12.	2. Attach geological/hydrological information for the facilit	y. Depth to and quality of ground wat	ter must be included.
13.	3. Attach a facility closure plan, and other information as is rules, regulations and/or orders.	necessary to demonstrate compliance	with any other OCD
	14. CERTIFICATIONI hereby certify that the information best of my knowledge and belief.	submitted with this application is true	and correct to the
	Name: <u>Mary E. Hebert</u>	Title: <u>Director, Environmental</u> Date: <u>1282008</u>	Compliance
I	E-mail	1	

Address: <u>bhebert@epco.com</u>

Enterprise Field Services, LLC,

Renewal: Discharge Plan – GW 232 Trunk A Facility SE/4, NE/4, Section 14, Township 26 North, Range 9 West Eddy County, NM

#### TABLE OF CONTENTS

1.	Type of Operation	}
2.	Operator/Legally Responsible Party	3
3.	Location of Facility	3
4.	Landowner	3
5.	Facility Description	ļ
6.	Material Stored or Used at the Facility	ł
7.	Source, Quantity, & Quality of Effluent and Waste Solids at the Facility	ļ
8.	Current Liquid and Solid Waste Collection/Storage/Disposal Procedures	5
9.	Proposed Modifications	1
10.	Inspection, Maintenance & Reporting7	1
11.	Spill / Leak Prevention and Reporting (Contingency Plans)	7
12.	Site Characteristics	7
13.	Facility Closure Plan	7
FIGUF FIGUF APPE	RE 1 – Site Vicinity/ Topographic Map RE 2 – Process Flow Diagram RE 3 – Site Survey NDIX A – Disposal of Waste Streams	7 7 7
APPE	NDIX B – Spill/Leak Reporting & Contingency Plans	7

.

\_\_\_\_\_

-----

#### 1. <u>Type of Operation</u>

The Trunk A Facility site is owned and operated by Enterprise Field Services, LLC (EFS). It is pipeline liquids gathering facility that includes 4 above ground storage tanks, 1 below grade tank, a two phase separator, and associated concrete foundations for possible replacement of a compressor at this facility. The facility is located on EFS right-of-way.

EFS is currently relocating and rebuilding the current liquids and wastewater handling facilities in order to comply with best management practices. This includes 4 new above ground tanks on a concrete pad within secondary containment.

#### 2. Operator/Legally Responsible Party

Legally Responsible Party:	Mr. Terry Hurlburt Enterprise Products Operating LLC 2727 North Loop West Houston, TX 77008 713.880.6595
Environmental Scientist:	Jennifer Corser 2162 Commerce Drive Midland, TX 79703 432.230.1414
Operations Director:	Mr. David Jaquez Enterprise Field Services, LLC 3008 E. Green Carlsbad, NM 88220 505.885.7212

#### 3. Location of Facility

The Trunk A Facility is located in the NW/4 of SE/4 of Section 10, Township 2s South, Range 26 East, in Eddy County, New Mexico.

The facility is located is approximately 5 miles south of Carlsbad, NM on Gillock Road. A site location map is attached. (Figure 1)

#### 4. Landowner

State of New Mexico Land Office PO Box 1148 Santa Fe, NM 87504

#### 5. Facility Description

A simplified process flow diagram (Figure 2) and survey of the facility property (Figure 3) are attached.

The proposed new tank area with associated secondary containment is shown as dotted lines on the plot plan

#### 6. Material Stored or Used at the Facility

Raw materials that are used at the facility are listed in Table 1.

Tank Contents	Solid or Liquid	Tank Capacity-Max Volume Stored	Location
Condensate	Liquid	300 bbl	Steel AGT within impermeable barrier surrounded by gravel, secondary containment dirt berm.
Field Liquids	Liquid	(2)210 bb!	Steel AGT within impermeable barrier surrounded by gravel, secondary containment dirt berm.
Wastewater	Liquid	100661	Steel BGT within impermeable barrier surrounded by gravel, secondary containment dirt berm. ( will be replaced as AGT)

#### <u>Table 1</u> <u>Material Stored or Used at Facility</u> <u>Trunk A</u>

#### 7. Source, Quantity, & Quality of Effluent and Waste Solids at the Facility

Wastes generated at this facility are listed in Table 2.

# Table 2 Source, Quantity, and Quality of Effluent and Waste Solids Trunk A

#### 7A. Source & Quantity

Process Fluid/Waste	Source	Quantity (Ranges)	Additives
Condensate	Two Phase Separator	10-15 bbl/day	None
Field Liquids	Two Phase Separator	100-200 bbl/day	None
Wastewater	Associated Tanks	5-10 bbl/day	None

#### 7B. Quality Characteristics

Process Fluid/Waste	RCRA STATUS	Analytical Process	Toxic Pollutants
Field Liquids	Exempt Non-hazardous	Not required, recycled	None
Condensate	Exempt Non-hazardous	RCI (Reactivity, Ignitability, Corrosivity). In the event of a release or spill impacting soil, analytical testing will be completed prior to transport of impacted media to an NMOCD approved location.	None
Wastewater	Exempt Non-hazardous	Not required, recycled	None

#### 7C. Commingled Waste Streams

There are no commingled waste streams onsite.

#### 8. Current Liquid and Solid Waste Collection/Storage/Disposal Procedures

Waste management will be conducted as outlined in Table 3.

Hydrostatic testing of underground lines will be conducted for all lines that are not under pressure. Hydrostatic testing of facility piping is conducted every five (5) years to ensure the integrity of the passive drain line piping at this facility. The testing consists of plugging the outlet of the line(s) at the confluence with the sub-grade waste water storage tank. A pipe riser is placed prior to the confluence that extends several feet above ground to achieve a minimum of three (3) pounds per square inch (psi) hydrostatic water pressure once the passive drain lines are filled with water. The hydrostatic test is conducted for a

one (1) hour period to determine that the water level in the riser pipe is static which is indicative of pipeline integrity.

The below grade tank will be replaced with an above grade tank in the first quarter of 2009. Closer activities associated with this removal are presented in a closure plan requested by the NMOCD on September 30, 2008

The name and address of all waste disposers is attached as Appendix A. All tanks and chemical storage areas are designed to contain at minimum a volume of 33% greater that the total volume stored. In the event of interconnected tanks, volume will be 33% greater than the combined volume of the tanks.

Trunk A Facility

# <u>Transfer, Storage, and Disposal of Process Fluids, Effluents, and Waste Solids</u> <u>TRUNK A FACILITY</u>

PROCESS	COLLECTION &	CONTAINER	RCRA	DESCRIPTION OF FINAL DISPOSITION
	STORAGE CAPACITY/ SYSTEM DESCRIPTION	CAPACITY/ DESCRIPTION	<u>STATUS</u>	
Condensate	Storage tank	300 bbl steel	Exempt	Hydrocarbons are removed and sold to SemCrude,
		tanks	Non-hazardous, not	lnc.
			normally a waste	
			stream	
Pipeline Liquids,	Storage tank	210 bbl steel	Exempt	Water is removed by Mesquite Services, Inc and
Wastewater		tank, 100 bbl	Non-hazardous	disposed of in an approved NMOCD location.
		fiberglass tank		

#### 9. Proposed Modifications

EFS is proposing to modify the facility by relocating the entire tank battery 100ft to North. This will allow for continued operation of the facility while clean-up occurs at the older tank battery. (see closure plan under separate cover)

#### 10. Inspection, Maintenance & Reporting

The facility will be inspected daily by the operator. Maintenance will be performed and records will be kept.

#### 11. Spill / Leak Prevention and Reporting (Contingency Plans)

The site is visited on a daily basis and any leaks, spills, and/or drips will be indentified and handled according to the requirements of the State of New Mexico as found in NMOCD Rule 116 and WQCC Section 1203.

EFS plans to guard against such spills and releases and detect them when they occur by daily visual inspections. When a leak is discovered, the source will be shut off immediately, all free standing fluids will be vacuumed up and absorbent spill cloths will be deployed. After all liquids have been removed, all contaminated soil and gravel will be removed and replaced with clean soil and gravel. The contaminated soil will then be hauled to a local land farm. In the case of a significant spill or release, EFS will comply with OCD Rule 116 and will notify the proper authorities.

If any leaks are found the pipe will be repaired or replaced and the contaminated soil will be removed and replaced with clean soil per NMOCD guidelines.

See Appendix B for specific reporting guidelines and contact numbers. Spill contingency and remediation plans are also listed in Appendix B.

#### 12. Site Characteristics

The Trunk A site is located on the Back-reef area in the Great Plains Province. The topographic relief within 1 mile of the pant is approximately 60 feet with elevations from 3270 to 3330 feet above sea level. The average annual precipitation at the facility is between 10-12 inches. This area supports native grasses and small shrubs. Groundwater is located at a depth of approximately 50 feet below surface grade with a total dissolved solids concentration of 650 mg/l

#### Geomorphology and Soils

The facility lies two miles south of Dark Canyon Draw. The surface slopes from 0 to 3 percent, from the highest point, 3330 southwest of the facility to 3270 feet northeast of the site. Soils consist mainly of the Reakor-Upton association which occurs on alluvial plains and terraces west of the Pecos River. This association consists of loamy, deep soils and soils that are shallow to caliche; from old alluvium. The soil color is light brownish-gray to brown. The soil layer thickness can range between 0 to 60 inches and has a moderate permeability (0.63 to 2.50 inches per hour). The available water-holding capacity of the soil is between 1 and 7 inches. The shrink-swell potential is low to moderate below 28 inches.

#### Regional Geology

The facility is located within the Lower Pecos Valley Subsection of the Great Plains Province. Much of the Pecos Valley Section is underlain by Permian bedrock units composed of gypsum and saline evaporates, limestone and dolomite, mudstone and shale, and sandstone. Dissolution of evaporite and carbonate units is an active geomorphic process affecting landscape evolution in much of the region, and solution-subsidence depressions at a wide range of scales are common landforms. The facility sets on a Quaternary Alluvium. There are no rocks outcrops in the immediate vicinity of the facility.

#### Local Geology

The facility is located 8 miles southwest of the Pecos River. Quaternary alluvium overlies the Carlsbad and Capitan limestones in the Guadeloupe series, which overlies the San Andres formation. Drill logs from water wells installed within one mile of the site show caliche, gravel, conglomerate, gypsum, clay, lime rock, and limestone layers.

#### Regional Groundwater Hydrology and Quality

The facility is located within the boundaries of the Carlsbad underground water basin. Groundwater occurs in limestone, sandstone, siltstone, and gypsum of Permian and Triassic age, and in sand, silt, gravel, and conglomerate of Tertiary and Quaternary age

#### Local Groundwater Hydrology and Quality

According to topographic maps published by NMOCD to support "Vulnerable Area Order", R-7940-C, the facility is located outside the expanded vulnerable zone Enterprise Filed Services does not have any water wells at the site (T23S-R26E-Sec. 10 414). According to the State Engineers Office, 7 water wells exist within one mile of the facility (See Appendix C). According to the U.S. Geological Survey Open File Report 92-118, no springs exists within one mile of the facility.

In the Carlsbad area, groundwater occurs in the Carlsbad Limestone, in the gypsum Castile and Rustler formations, and in the alluvium. The potable aquifer most likely to be affected is the Carlsbad Limestone. The local alluvial groundwater flow appears to move in an easterly direction towards the Pecos River. Regional groundwater flow in the Carlsbad Limestone in the general vicinity of the site is towards the east.

#### Surface Water Hydrology and Flooding Potential

The facility is located two miles south of Dark Canyon Draw and eight miles southwest of the Pecos River in the Pecos River Basin. Flooding potential from the Pecos River is negligible because the site is outside the floodplain of the Pecos River (See Appendix D). Berms are built around the tanks and all other potential groundwater contamination sources to contain possible spills on site, thereby preventing surface water contamination.

#### 13. Facility Closure Plan

Should Operator choose to permanently close the facility a closure plan will be submitted in accordance with provisions of WQCC Section 3107.A.11. Operator will submit the detailed closure plan to the NMOCD prior to closure. All reasonable and necessary measures will be taken to prevent the exceedance of WCCC Section 3103 water quality standards.

Generally, closure measures will include removal or closure in place of underground piping and equipment. All tanks will be emptied. All wastes will be removed from the site and properly disposed of in accordance with the rules and regulations in place at the time of closure. When all fluids, contaminants, and equipment have been removed from the site, the site will be graded as close to the original contour as possible and seeded.

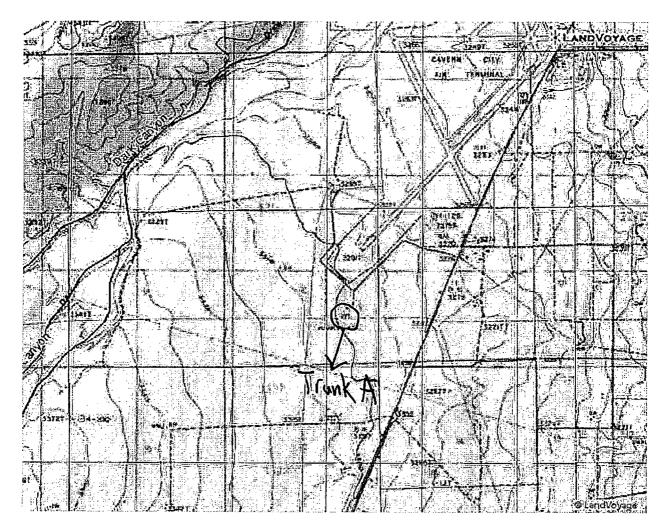
Should contaminated soil be discovered, any necessary reporting under NMOCD Rule 116 and WQCC Section 1203 will be made and clean-up activities will commence. Post-closure maintenance and monitoring plans would not be necessary unless contamination is encountered.

Trunk A Facility

FIGURE 1 – Site Vicinity/ Topographic Map



🖨 Print



Close Window

FIGURE 2 – Process Flow Diagram

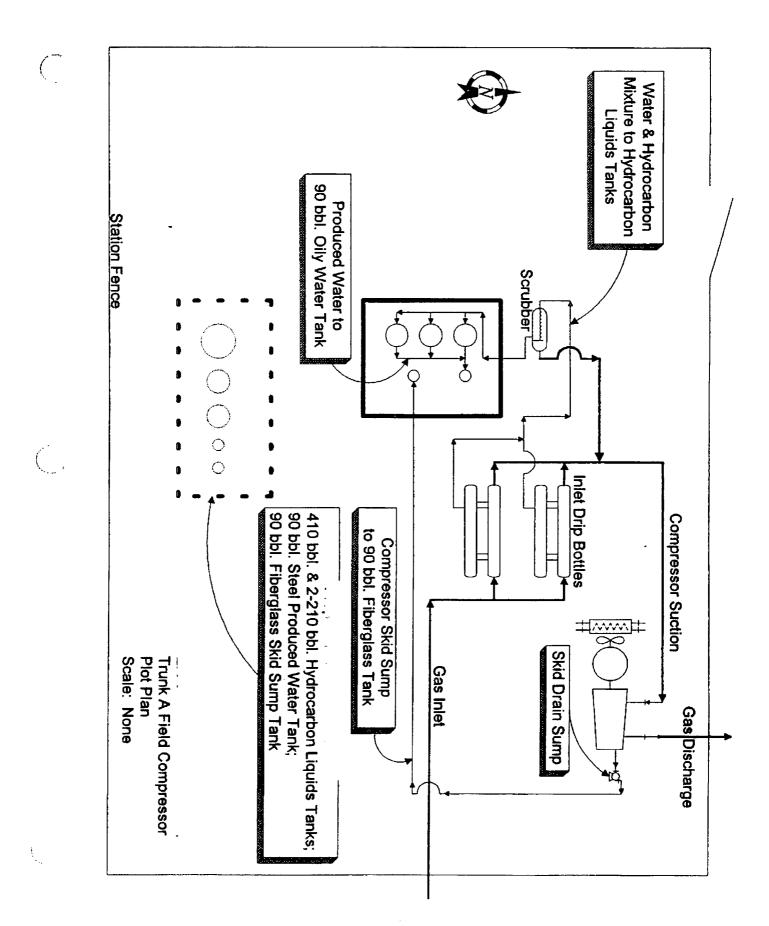
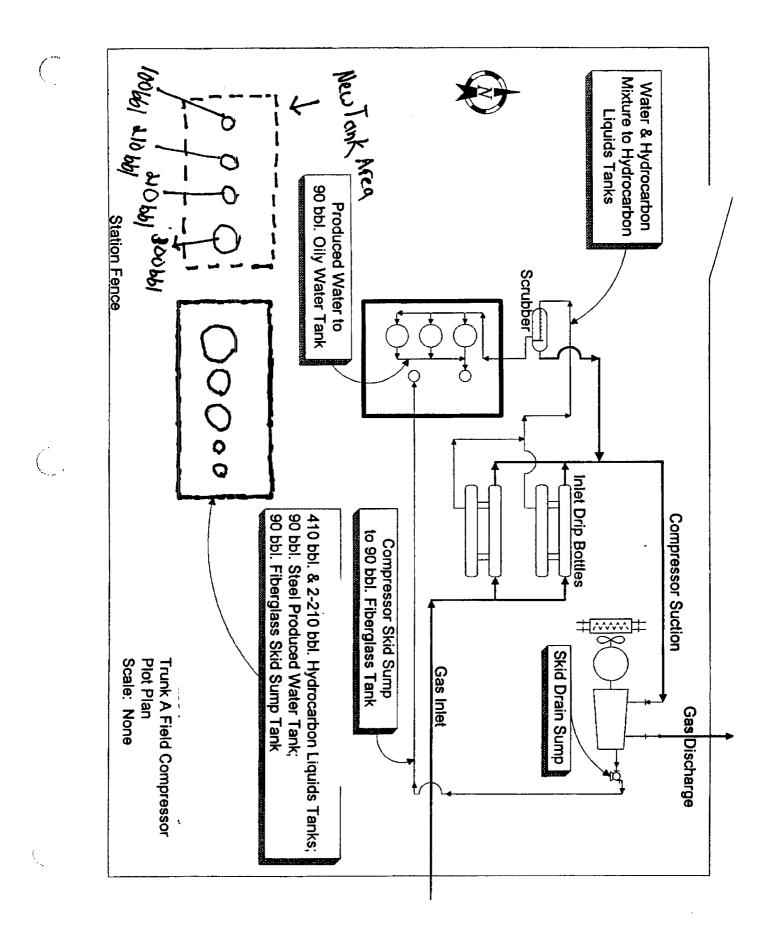


FIGURE 3 – Site Diagram

-



#### APPENDIX A – Disposal of Waste Streams

#### Liquids Disposal

Mesquite Services, Inc. 414 Halagueno St. Carlsbad, NM 88220 575.885.3996

#### **Soil Disposal**

Lea Land, Inc. Mile Marker 64 Highway 62/180 Carlsbad, NM 88220 575.887.4048 APPENDIX B – Spill/Leak Reporting & Contingency Plans

## **GUIDELINES**

## FOR

# REMEDIATION

## OF

# **LEAKS, SPILLS AND RELEASES**

(AUGUST 13, 1993)

.

New Mexico Oil Conservation Division 1220 S. ST. FRANCIS DR. Santa Fe, New Mexico 87505

#### TABLE OF CONTENTS

#### INTRODUCTION

- I. NOTICE OF LEAK, SPILL OR RELEASE
  - A. RESPONSIBLE PARTY AND LOCAL CONTACT
  - B. FACILITY
  - C. TIME OF INCIDENT
  - D. DISCHARGE EVENT
  - E. TYPE OF DISCHARGE
  - F. QUANTITY
  - G. SITE CHARACTERISTICS
  - H. IMMEDIATE CORRECTIVE ACTIONS
- II. INITIAL RESPONSE ACTIONS
  - A. SOURCE ELIMINATION AND SITE SECURITY
  - B. CONTAINMENT
  - C. SITE STABILIZATION
- III. <u>SITE ASSESSMENT</u>
  - A. GENERAL SITE CHARACTERISTICS
    - 1. Depth To Ground Water
    - 2. Wellhead Protection Area
    - 3. Distance To Nearest Surface Water Body
  - B. SOIL/WASTE CHARACTERISTICS
    - 1. Highly Contaminated/Saturated Soils
    - 2. Unsaturated Contaminated Soils
  - C. GROUND WATER QUALITY
- IV. SOIL AND WATER REMEDIATION ACTION LEVELS
  - A. SOILS
    - 1. Highly Contaminated/Saturated Soils
    - 2. Unsaturated Contaminated Soils
      - a. Ranking Criteria
      - b. <u>Recommended Remediation Level</u>
  - B. GROUND WATER

- V. SOIL AND WATER SAMPLING PROCEDURES
  - A. HIGHLY CONTAMINATED OR SATURATED SOILS
    - 1. Physical Observations
  - B. UNSATURATED CONTAMINATED SOILS
    - 1. Soil Sampling Procedures for Headspace Analysis
    - 2. Soil Sampling Procedures For Laboratory Analysis
      - a. <u>Sampling Procedures</u>
      - b. <u>Analytical methods</u>
  - C. GROUND WATER SAMPLING
    - 1. Monitor Well Installation/Location
    - 2. Monitor Well Construction
    - 3. Monitor Well Development
    - 4. Sampling Procedures
    - 5. Ground Water laboratory Analysis
      - a. <u>Analytical Methods</u>

#### VI. <u>REMEDIATION</u>

- A. SOIL REMEDIATION
  - 1. Contaminated Soils
  - 2. Soil Management Options
    - a. <u>Disposal</u>
    - b. Soil Treatment and Remediation Techniques
      - **i.** Landfarming
      - ii. Insitu Soil Treatment
      - iii. Alternate Methods

#### B. GROUND WATER REMEDIATION

#### 1. Remediation Requirements

- a. Free Phase Contamination
- b. <u>Dissolved Phase Contamination</u>
- c. <u>Alternate Methods</u>

#### VII. <u>TERMINATION OF REMEDIAL ACTION</u>

- A. SOIL
- B. GROUND WATER
- VIII. <u>FINAL CLOSURE</u>
- IX. FINAL REPORT

#### INTRODUCTION

The following document is to be used as a <u>guide</u> on all federal, state and fee lands when remediating contaminants resulting from leaks, spills and releases of oilfield wastes or products. The New Mexico Oil Conservation Division (OCD) requires that corrective actions be taken for leaks, spills or releases of any material which has a reasonable probability to injure or be detrimental to public health, fresh waters, animal or plant life, or property or unreasonably interfere with the public welfare or use of the property. These guidelines are intended to provide direction for remediation of soils and fresh waters contaminated as a result of leaks, spills or releases of oilfield wastes and products in a manner that assures protection of fresh waters, public health and the environment.

Fresh waters (to be protected) includes the water in lakes, playas, surface waters of all streams regardless of the quality of the water within any given reach, and all underground waters containing 10,000 milligrams per liter (mg/l) or less of total dissolved solids (TDS) except for which, after notice and hearing, it is found that there is no present or reasonably foreseeable beneficial use which would be impaired by contamination of such waters. The water in lakes and playas shall be protected from contamination even though it may contain more than 10,000 mg/l of TDS unless it can be shown that hydrologically connected fresh ground water will not be adversely affected.

Procedures may deviate from the following guidelines if it can be shown that the proposed procedure will either remediate, remove, isolate or control contaminants in such a manner that fresh waters, public health and the environment will not be impacted. Specific constituents and/or requirements for soil and ground water analysis and/or remediation may vary depending on site specific conditions. Deviations from approved plans will require OCD notification and approval.

\*\*\*\* Note: Notification to OCD of leaks, spills and releases does not relieve an operator of responsibility for compliance with any other federal, state or local law and/or regulation regarding the incident. Other agencies (ie. BLM, Indian Tribes, etc) may also have guidelines or requirements for remediation of leaks spills and releases.

1

#### I. NOTIFICATION OF LEAK, SPILL OR RELEASE

Leaks, spills and releases of any wastes or products from oilfield operations are required to be reported to the OCD pursuant to OCD Rule 116 (Appendix A) or New Mexico Water Quality Control Commission (WQCC) Regulation 1-203 (Appendix B). Appendix C contains the phone numbers and addresses for reporting incidents to the OCD district and Santa Fe offices. Notification will include all information required under the respective rule or regulation. Below is a description of some of the information required:

#### A. RESPONSIBLE PARTY AND LOCAL CONTACT

The name, address and telephone number of the person/persons in charge of the facility/operation as well as the owner and/or operator of the facility/operation and a local contact.

#### B. FACILITY

The name and address of the facility or operation where the incident took place and the legal location listed by quarterquarter, section, township and range, and by distance and direction from the nearest town or prominent landmark so that the exact site location can be readily located on the ground.

#### C. TIME OF INCIDENT

The date, time and duration of the incident.

#### D. DISCHARGE EVENT

A description of the source and cause of the incident.

#### E. TYPE OF DISCHARGE

A description of the nature or type of discharge. If the material leaked, spilled or released is anything other than crude oil, condensate or produced water include its chemical composition and physical characteristics.

#### F. QUANTITY

The known or estimated volume of the discharge.

#### G. SITE CHARACTERISTICS

The relevant general conditions prevailing at the site including precipitation, wind conditions, temperature, soil type, distance to nearest residence and population centers and proximity of fresh water wells or watercourse (ie. any river, lake, stream, playa, arroyo, draw, wash, gully or natural or man-made channel through which water flows or has flowed).

#### H. IMMEDIATE CORRECTIVE ACTIONS

Any initial response actions taken to mitigate immediate threats to fresh waters, public health and the environment.

#### II. INITIAL RESPONSE ACTIONS

Upon learning of a leak, spill or release of any material which has a reasonable probability to injure or be detrimental to public health, fresh waters, animal or plant life, or property or unreasonably interfere with the public welfare or use of the property, the responsible party (RP) should take the following immediate actions unless the actions could create a safety hazard which would result in a threat to personal or public injury:

#### A. SOURCE ELIMINATION AND SITE SECURITY

The RP should take the appropriate measures to stop the source of the leak, spill or release and limit access to the site as necessary to reduce the possibility of public exposure.

#### B. CONTAINMENT

Once the site is secure, the RP should take steps to contain the materials leaked, spilled or released by construction of berms or dikes, the use of absorbent pads or other containment actions to limit the area impacted by the event and prevent potential fresh water contaminants from migrating to watercourses or areas which could pose a threat to public health and safety.

#### C. SITE STABILIZATION

After containment, the RP should recover any products or wastes which can be physically removed from the surface within the containment area. The disposition of all wastes or products removed from the site must be approved by the OCD.

#### III. SITE ASSESSMENT

Prior to final closure (Section VIII), soils into which nonrecoverable products or wastes have infiltrated and which have a reasonable probability to injure or be detrimental to public health, fresh waters, animal or plant life, or property or unreasonably interfere with the public welfare or use of the property should be assessed for their potential environmental impacts and remediated according to the procedures contained in the following sections. Assessment results form the basis of any required remediation. Sites will be assessed for severity of contamination and potential environmental and public health threats using a risk based ranking system.

The following characteristics should be determined in order to evaluate a sites potential risks, the need for remedial action and, if necessary, the level of cleanup required at the site:

#### A. GENERAL SITE CHARACTERISTICS

#### 1. Depth To Ground Water

The operator should determine the depth to ground water at each site. The depth to ground water is defined as the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water. If the exact depth to ground water is unknown, the ground water depth can be estimated using either local water well information, published regional ground water information, data on file with the New Mexico State Engineer Office or the vertical distance from adjacent ground water or surface water.

#### 2. Wellhead Protection Area

The operator should determine the horizontal distance from all water sources including private and domestic water sources. Water sources are defined as wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes.

#### 3. Distance To Nearest Surface Water Body

The operator should determine the horizontal distance to all downgradient surface water bodies. Surface water bodies are defined as perennial rivers, streams, creeks, irrigation canals and ditches, lakes, ponds and playas.

#### B. SOIL/WASTE CHARACTERISTICS

Soils/wastes within and beneath the area of the leak, spill or release should be evaluated to determine the type and extent of contamination at the site. In order to assess the level of contamination, observations should be made of the soils at the surface and samples of the impacted soils should be taken in the leak, spill or release area. Observations should note whether previous leaks, spills or releases have occurred at the site. Additional samples may be required to completely define the lateral and vertical extent of contamination. Soil samples should be obtained according to the sampling procedures in Sections V.A. and V.B. This may be accomplished using a backhoe, drill rig, hand auger, shovel or other means.

Initial assessment of soil contaminant levels is not required if an operator proposes to determine the final soil contaminant concentrations after a soil removal or remediation pursuant to section VI.A.

Varying degrees of contamination described below may co-exist at an individual site. The following sections describe the degrees of contamination that should be documented during the assessment of the level of soil contamination:

#### 1. Highly Contaminated/Saturated Soils

Highly contaminated/saturated soils are defined as those soils which contain a free liquid phase or exhibit gross staining.

#### 2. Unsaturated Contaminated Soils

Unsaturated contaminated soils are defined as soils which are not highly contaminated/saturated, as described above, but contain benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH) or other potential fresh water contaminants unique to the leak, spill or release. Action levels and sampling and analytical methods for determining contaminant concentrations are described in detail in Sections IV. and V.

\*\*\*\* (NOTE: Soils contaminated as a result of spills, leaks or releases of non-exempt wastes must be evaluated for all RCRA Subtitle C hazardous waste characteristics. The above definitions apply only to oilfield contaminated soils which are exempt from federal RCRA Subtitle C hazardous waste provisions and nonexempt oilfield contaminated soils which are characteristically nonhazardous according to RCRA Subtitle C regulations. Any nonexempt contaminated soils which are determined to be characteristically hazardous cannot be remediated using this guidance document and will be referred to the New Mexico Environment Department Hazardous Waste Program.)

#### C. GROUND WATER QUALITY

If ground water is encountered during the soil/waste characterization of the impacted soils, a sample should be obtained to assess the incidents potential impact on ground water quality. Ground water samples should be obtained using the sampling procedures in Section V.C. Monitor wells may be required to assess potential impacts on ground water and the extent of ground water contamination, if there is a reasonable probability of ground water contamination based upon the extent and magnitude of soil contamination defined during remedial activities.

#### IV. SOIL AND WATER REMEDIATION ACTION LEVELS

#### A. SOILS

The sections below describe the OCD's recommended remediation action levels for soils contaminated with petroleum hydrocarbons. Soils contaminated with substances other than petroleum hydrocarbons may be required to be remediated based upon the nature of the contaminant and it's potential to impact fresh waters, public health and the environment.

#### 1. Highly Contaminated/Saturated Soils

All highly contaminated/saturated soils should be remediated insitu or excavated to the maximum extent practicable. These soils should be remediated using techniques described in Section VI.A to the contaminant specific level listed in Section IV.A.2.b.

#### 2. Unsaturated Contaminated Soils

The general site characteristics obtained during the site assessment (Section III.A.) will be used to determine the appropriate soil remediation action levels using a risk based approach. Soils which are contaminated by petroleum constituents will be scored according to the ranking criteria below to determine their relative threat to public health, fresh waters and the environment.

#### a. <u>Ranking Criteria</u>

Depth To Ground Water	<u>Ranking Score</u>
<50 feet	20
50 - 99	10
>100	0

#### Wellhead Protection Area

<1000 feet from a water source,or; <200 feet from private domestic water source Yes 20 No 0

#### Distance To Surface Water Body

<200 horizontal feet	20
200 - 1000 horizontal feet	10
>1000 horizontal feet	0

#### b. <u>Recommended Remediation Action Level</u>

The total ranking score determines the degree of remediation that may be required at any given site. The total ranking score is the sum of all four individual ranking criteria listed in Section IV.A.2.a. The table below lists the remediation action level that may be required for the appropriate total ranking score.

(NOTE: The OCD retains the right to require remediation to more stringent levels than those proposed below if warranted by site specific conditions (ie. native soil type, location relative to population centers and future use of the site or other appropriate site specific conditions.)

	Te	otal Ranking Sc	ore
	<u>&gt;19</u>	<u>10 - 19</u>	0 - 9
Benzene(ppm) *	10	10	10
BTEX (ppm) *	50	50	50
TPH(mag)**	100	1000	5000

 A field soil vapor headspace measurement (Section
 V.B.1) of 100 ppm may be substituted for a laboratory analysis of the Benzene and BTEX concentration limits. \*\* The contaminant concentration for TPH is the concentration above background levels.

#### B. GROUND WATER

Contaminated ground water is defined as ground water of a present or foreseeable beneficial use which contains free phase products, dissolved phase volatile organic constituents or other dissolved constituents in excess of the natural background water quality. Ground water contaminated in excess of the WQCC ground water standards or natural background water quality will require remediation.

#### V. SOIL AND WATER SAMPLING PROCEDURES

Below are the sampling procedures for soil and ground water contaminant investigations of leaks, spills or releases of RCRA Subtitle C exempt oil field petroleum hydrocarbon wastes. Leaks, spills or releases of non-exempt RCRA wastes must be tested to demonstrate that the wastes are not characteristically hazardous according to RCRA regulations. Sampling for additional constituents may be required based upon the nature of the contaminant which was leaked, spilled or released.

#### A. HIGHLY CONTAMINATED OR SATURATED SOILS

The following method is used to determine if soils are highly contaminated or saturated:

#### 1. Physical Observations

Study a representative sample of the soil for observable free petroleum hydrocarbons or immiscible phases and gross staining. The immiscible phase may range from a free hydrocarbon to a sheen on any associated aqueous phase. A soil exhibiting any of these characteristics is considered highly contaminated or saturated.

#### B. UNSATURATED CONTAMINATED SOILS

The following methods may be used for determining the magnitude of contamination in unsaturated soils:

#### 1. Soil Sampling Procedures for Headspace Analysis

A headspace analysis may be used to determine the total volatile organic vapor concentrations in soils (ie. in lieu of a laboratory analysis for benzene and BTEX but not in lieu of a TPH analysis). Headspace analysis procedures should be conducted according to OCD approved industry standards or other OCD-approved procedures. Accepted OCD procedures are as follows:

a) Fill a 0.5 liter or larger jar half full of sample and seal the top tightly with aluminum foil or fill a one quart zip-lock bag one-half full of sample and seal the top of the bag leaving the remainder of the bag filled with air.

- b) Ensure that the sample temperature is between 15 to 25 degrees Celsius (59-77 degrees Fahrenheit).
- c) Allow aromatic hydrocarbon vapors to develop within the headspace of the sample jar or bag for 5 to 10 minutes. During this period, the sample jar should be shaken vigorously for 1 minute or the contents of the bag should be gently massaged to break up soil clods.
- d) If using a jar, pierce the aluminum foil seal with the probe of either a PID or FID organic vapor meter (OVM), and then record the highest (peak) measurement. If using a bag, carefully open one end of the bag and insert the probe of the OVM into the bag and re-seal the bag around the probe as much as possible to prevent vapors from escaping. Record the peak measurement. The OVM must be calibrated to assume a benzene response factor.

#### 2. Soil Sampling Procedures For Laboratory Analysis

#### a. <u>Sampling Procedures</u>

Soil sampling for laboratory analysis should be conducted according to OCD approved industry standards or other OCD-approved procedures. Accepted OCD soil sampling procedures and laboratory analytical methods are as follows:

- i) Collect samples in clean, air-tight glass jars supplied by the laboratory which will conduct the analysis or from a reliable laboratory equipment supplier.
- ii) Label the samples with a unique code for each sample.
- iii) Cool and store samples with cold packs or on ice.
- iv) Promptly ship sample to the lab for analysis following chain of custody procedures.
- v) All samples must be analyzed within the holding times for the laboratory analytical method specified by EPA.
- b. <u>Analytical Methods</u>

All soil samples must be analyzed using EPA methods, or by other OCD approved methods and must

be analyzed within the holding time specified by the method. Below are laboratory analytical methods commonly accepted by OCD for analysis of soil samples analyzed for petroleum related constituents. Additional analyses may be required if the substance leaked, spilled or released has been anything other than petroleum based fluids or wastes.

- i) Benzene, toluene, ethylbenzene and xylene
  - EPA Method 602/8020
- ii) Total Petroleum Hydrocarbons
  - EPA Method 418.1, or;
  - EPA Method Modified 8015

#### C. GROUND WATER SAMPLING

If an investigation of ground water quality is deemed necessary, it should be conducted according to OCD approved industry standards or other OCD-approved procedures. The following methods are standard OCD accepted methods which should be used to sample and analyze ground water at RCRA Subtitle C exempt sites (Note: The installation of monitor wells may not be required if the OCD approves of an alternate ground water investigation or sampling technique):

#### 1. Monitor Well Installation/Location

One monitor well should be installed adjacent to and hydrologically down-gradient from the area of the leak, spill or release to determine if protectable fresh water has been impacted by the disposal activities. Additional monitor wells, located up-gradient and down-gradient of the leak, spill or release, may be required to delineate the full extent of ground water contamination if ground water underlying the leak, spill or release has been found to be contaminated.

#### 2. Monitor Well Construction

- a) Monitor well construction materials should be:
  - i) selected according to industry standards;
  - ii) chemically resistant to the contaminants to be monitored; and
  - iii) installed without the use of glues/adhesives.
- b) Monitor wells should be constructed according to OCD approved industry standards to prevent migration of contaminants along the well casing. Monitor wells should be constructed with a minimum of fifteen

(15) feet of well screen. At least five (5) feet of the well screen should be above the water table to accommodate seasonal fluctuations in the static water table.

#### 3. Monitor Well Development

When ground water is collected for analysis from monitoring wells, the wells should be developed prior to sampling. The objective of monitor well development is to repair damage done to the formation by the drilling operation so that the natural hydraulic properties of the formation are restored and to remove any fluids introduced into the formation that could compromise the integrity of the sample. Monitoring well development is accomplished by purging fluid from the well until the pH and specific conductivity have stabilized and turbidity has been reduced to the greatest extent possible.

#### 4. Sampling Procedures

Ground water should be sampled according to OCD accepted standards or other OCD approved methods. Samples should be collected in clean containers supplied by the laboratory which will conduct the analysis or from a reliable laboratory equipment supplier. Samples for different analyses require specific types of containers. The laboratory can provide information on the types of containers and preservatives required for sample collection. The following procedures are accepted by OCD as standard sampling procedures:

- a) Monitor wells should be purged of a minimum of three well volumes of ground water using a clean bailer prior to sampling to ensure that the sample represents the quality of the ground water in the formation and not stagnant water in the well bore.
- b) Collect samples in appropriate sample containers containing the appropriate preservative for the analysis required. No bubbles or headspace should remain in the sample container.
- c) Label the sample containers with a unique code for each sample.
- d) Cool and store samples with cold packs or on ice.
- e) Promptly ship sample to the lab for analysis following chain of custody procedures.
- f) All samples must be analyzed within the holding times for the laboratory analytical method specified by EPA.
- 5. Ground Water Laboratory Analysis

Samples should be analyzed for potential ground water contaminants contained in the waste stream, as defined by the WQCC Regulations. All ground water samples must be analyzed using EPA methods, or by other OCD approved methods and must be analyzed within the holding time specified by the method. Below are OCD accepted laboratory analytical methods for analysis of ground water samples analyzed for petroleum related constituents. Additional analyses may be required if the substance leaked, spilled or release has been anything other than a petroleum based fluid or waste.

- a. <u>Analytical Methods</u>
  - i.) Benzene, Toluene, Ethylbenzene and Xylene

- EPA Method 602/8020

ii.) Major Cations and Anions

Various EPA or standard methods

- iii.) Heavy Metals
  - EPA Method 6010, or;
  - Various EPA 7000 series methods

iv.) Polynuclear Aromatic Hydrocarbons

- EPA Method 8100

#### VI. REMEDIATION

The following discussion summarizes recommended techniques for remediation of contaminated soil and ground water as defined in Section IV.A. and IV.B. OCD approval for remediation of an individual leak, spill or release site is not required if the company is operating under an OCD approved spill containment plan. All procedures which deviate from the companies spill containment plan must be approved by OCD.

#### A. SOIL REMEDIATION

When RCRA Subtitle C exempt or RCRA nonhazardous petroleum contaminated soil requires remediation, it should be remediated and managed according to the criteria described below or by other OCD approved procedures which will remove, treat, or isolate contaminants in order to protect fresh waters, public health and the environment.

In lieu of remediation, OCD may accept an assessment of risk which demonstrates that the remaining contaminants will not pose a threat to present or foreseeable beneficial use of fresh waters, public health and the environment.

#### 1. Contaminated Soils

Highly contaminated/saturated soils and unsaturated contaminated soils exceeding the standards described in Section IV.A. should be either:

- a) Excavated from the ground until a representative sample from the walls and bottom of the excavation is below the contaminant specific remediation level listed in Section IV.A.2.b or an alternate approved remediation level, or;
- b) Excavated to the maximum depth and horizontal extent practicable. Upon reaching this limit a sample should be taken from the walls and bottom of the excavation to determine the remaining levels of soil contaminants, or;
- c) Treated in place, as described in Section VI.A.2.b.ii. - Treatment of Soil in Place, until a representative sample is below the contaminant specific remediation level listed in Section IV.A.2.b, or an alternate approved remediation level, or;
- d) Managed according to an approved alternate method.

#### 2. Soil Management Options

All soil management options must be approved by OCD. The following is a list of options for either on-site

treatment or off-site treatment and/or disposal of contaminated soils:

a. <u>Disposal</u>

Excavated soils may be disposed of at an off-site OCD approved or permitted facility.

- b. Soil Treatment and Remediation Techniques
  - i. Landfarming

Onetime applications of contaminated soils may be landfarmed on location by spreading the soil in an approximately six inch lift within a bermed area. Only soils which do not contain free liquids can be landfarmed. The soils should be disced regularly to enhance biodegradation of the contaminants. If necessary, upon approval by OCD, moisture and nutrients may be added to the soil to enhance aerobic biodegradation.

In some high risk areas an impermeable liner may be required to prevent leaching of contaminants into the underlying soil.

Landfarming sites that will receive soils from more than one location are considered centralized sites and must be approved separately by the OCD prior to operation.

ii. Insitu Soil Treatment

Insitu treatment may be accomplished using vapor venting, bioremediation or other approved treatment systems.

iii. Alternate Methods

The OCD encourages alternate methods of soil remediation including, but not limited to, active soil aeration, composting, bioremediation, solidification, and thermal treatment.

#### B. GROUND WATER REMEDIATION

#### 1. Remediation Requirements

Ground water remediation activities will be reviewed and approved by OCD on a case by case basis prior to commencement of remedial activities. When contaminated ground water exceeds WQCC ground water standards, it should be remediated according to the criteria described below.

#### a. Free Phase Contamination

Free phase floating product should be removed from ground water through the use of skimming devices, total-fluid type pumps, or other OCD-approved methods.

#### b. <u>Dissolved Phase Contamination</u>

Ground water contaminated with dissolved phase constituents in excess of WQCC ground water standards can be remediated by either removing and treating the ground water, or treating the ground water in place. If treated waters are to be disposed of onto or below the ground surface, a discharge plan must be submitted and approved by OCD.

#### c. <u>Alternate Methods</u>

The OCD encourages other methods of ground water remediation including, but not limited to, air sparging and bioremediation. Use of alternate methods must be approved by OCD prior to implementation.

#### VII. TERMINATION OF REMEDIAL ACTION

Remedial action may be terminated when the criteria described below have been met:

#### A. SOIL

Contaminated soils requiring remediation should be remediated so that residual contaminant concentrations are below the recommended soil remediation action level for a particular site as specified in Section IV.A.2.b.

If soil action levels cannot practicably be attained, an evaluation of risk may be performed and provided to OCD for approval showing that the remaining contaminants will not pose a threat to present or foreseeable beneficial use of fresh water, public health and the environment.

#### B. GROUND WATER

A ground water remedial action may be terminated if all recoverable free phase product has been removed, and the concentration of the remaining dissolved phase contaminants in the ground water does not exceed New Mexico WQCC water quality standards or background levels. Termination of remedial action will be approved by OCD upon a demonstration of completion of remediation as described in above.

#### VIII. FINAL CLOSURE

Upon termination of any required remedial actions (Section VII.) the area of a leak, spill or release may be closed by backfilling any excavated areas, contouring to provide drainage away from the site, revegetating the area or other OCD approved methods.

#### IX. FINAL REPORT

Upon completion of remedial activities a final report summarizing all actions taken to mitigate environmental damage related to the leak, spill or release will be provided to OCD for approval.

EL-PASO NATURAL GAS

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NATURAL GAS ENGINE OIL

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Sulfur Oxides HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION --- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED -

THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist EFFECTS OF OVEREXPOSURE: No significant effects expected.

EXE CONTACT: Flush thoroughly with water. If irritation persists, call a physician

call a physician. SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem. However, if greater than 1/2 littlepint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person. ORAL TOXKCITY (RATS): Practically non-toxic (LD50 greater than 2000 mg/kg). ---Based on testing of similar products and/or the components

DERWAL TOXICITY (RABBITS): Practically non-toxic (LD5U: greater than 2000 mg/kg). --Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable --- Harmful concentration of mists and/or vapors are unlikely to be encouncered through any customary or reasonably foreseeable handling, use, or misuse of this product. EVE IRRITATION (RABBITS): Practically non-irritating. (Draize score: 0 or greater but 6 or less). -- Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating (Primary irritation index: 0.5 or leas). -- Based on testing of similar products and/or the components.

--- SUBCHRONIC TOXICOLOGY (SUMMARY) ---

EL PASO NATURAL GAS

i

.

i

i

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NATURAL GAS ENGINE OIL

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Zivizonmental and Health Sciences laboratory by dermal application to rates 5 days/week for 90 days at doses significantly hibber than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of adverse effects.

--- CHRONIC TOXICOLOGY (SUMMARY) ---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of gim.lar oils showed no evidence of carcinogenic effects. SECTION VII SPILL, LEAK, AND DISPOSAI, PROCEDURES ENVIRONKENTAL IMPACT: In case of accident or road spill notify CHEMTRG (000) 424-9300. Report spills as required to appropriate authorities. U.S. Coset Guard regulations require immediate reporting of spills that could resch any watervay including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

Absorb on fire retardant treated gawduct, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

WASTE MANAGEMENT:

Product is suitable for burning in an enclosed, controlled burner for then value or disposal by supervised incineration. Such burning may b be limited pursuant to the Resource Conservation and Recovery Ant. In additin, the product is suitable for processing by an approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and reputations and consideration of product characteristics at time of disposal.

SECTION VIII SPECIAL PROTECTION INFORMATION EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. Nowever, good personal hygiene practices should always be followed.

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

ł

ļ

EL PASO NATURAL GAS

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NATURAL GAS ENGINE OIL

VENTILATION; No special requirements under ordinary conditions or use

and with adequate ventilation. SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Ho special precautions required.

GOVERNMENTAL INVENTORY STATUS: All components registered in accordance with TSCA and SINECS.

DOT:

Shipping Name: Not applicable Hazard Class; Not applicable US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. WCRA INFORMATION: The unused product, in our opiniou, is not apecifically listed by the EPA as a hazardous waste (40 CFR, Part 261D nor is it formulated to contain materials which are listed hazardous sympton if does not exhibit the hazardous characteristics of ignitability, corresivity, or reactivity and is not formulated with Procedure (TCLP). Howere, used product may be regulated. U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SAAA (311/312 - FORMERLY 302) REPORTABLE HAZARDOUS SUBSTANCES. None This product contains no chemicals reportable under SARA (313) toxic release program

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

LIST CITATIONS

CAS #

CHEMICAL NAME

					~	J		~	Ļ	
					293	RTJ	RTJ	PA RTK	RI RTK	
					μ	NM o	ΝĴ	ΡA	RI	
					22 =	U		ß	R,	
					22	53	24	52	56	
22	22									
				,	59J	RTK	RTK	RTK	RTK	
				;	17 = CA P65	5 "	5	님	- I'	
	_				h	1	п	I	Ħ	
1440-66-6	68649-42-3			REGULATORY LISTS SEARCH	17	<b>1</b> .8	19	20 =	27	
ټ י	ĥ			as						
440	861			11S	4	= TSCA 5a2	TSCA 5e	TSCA 6	15 - TSCA 12b	
	9			H	s	A	5	Æ	4	12
				~	TSI	12	ĭš	130	й	- WHMIS
		~		ő	-		u	H	ų	
5	PHOSPHORODITHOIC ACID, 0,0-DI CI	14-ALKYL ESTERS, ZINC SALTS (2:1)		LAT	11 = TSCA 4	ŝ	E	14	15	91
3	ä	en.		100				<b>e</b> 1		
_	ė	Ë		Я		2A	28	OSHA CARC		
i 9	•	S			-	2	ы	U	N	
۲.	e	Q		1.	RC CR	IARC	IARC 2	Ë	SHA	
[B]	ទ្ធ	112		;	2	â	2			
ą	5	Ϊ.			н	Ħ	п	n	N	
al	ĕ	ŝ	_		Ś	5	80	ማ	2	
Ц	ΤH	35	Ħ		11	ч	2	υ		
ane	ã	ß	1		4	2	4	AR.	5	
51e	ğ	Ľ,	-		Ē	Ē	H	0	03 02	
ZINC (Elemental analysis) (.05)	PHC	EK	(200P) (.41t)		1 = ACGIH ALL 6 = LARC	ACGIN AL	ACGIH A2	NTP CARC	NTP SUS	
N.	õS	4-1	8		м	n	u	μ	h	
12	đ	F	5		~	ŝ	m	7	ß	
		4	-							

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

CARC = CARCINOGEN: SUS = SUSPECTED CARCINOGEN

......

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

.

١

i

;

i

i

;

PRODUCT NAME: NATURAL GAS ENGINE OIL

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitablility of the product product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTISS OF SUPE KIND AND NATURE, INCLUDING WARRANTIES OF WERCHANTABLIFY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABLILTY OF THE PRODUCT. Nothing is itended as a secommendation for uses which infringe valid patents or as extending ifcense under valid patents. Appropriate warnings and safe handling procuedures should be provided to handlers an users.

PREPARED BY: MOBIL OIL COPORATION

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, FRINCETON, MJ

FOR FURTHER INFORMATION CONTACT: Mobil Oil Corporation, Product Formulation and Quality Control 3225 Gallows Road, Fairfax, VA 22037 (800) 227-0707 X3265

.

APPENDIX C – State Engineers Water Well Report

## New Mexico Office of the State Engineer

Township: 2	3S Range: 26E Se	ections: 11	······	
NAD27 X:	Y:	Zone:	Search Radiu	s:
County:	Basin:	N	umber:	Suffix:
Owner Name: (First)	(Last)		O Non-Domestic	O Domestic 🛛 🖲 A
POD / Surface Data F	eport Ava De	pth to Water Rep	ort Wat	er Column Report

#### WATER COLUMN REPORT 10/13/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)											
	(quarter	s are	bigge	st to	<pre>smallest)</pre>			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng S	Sec q	qq	Zone	х	Y	Well	Water	Column	
C 01635	235	26E 1	.1					255	205	50	
C 01708	238	26E 1	.1 2	3				275	236	39	
<u>C 01843</u>	238	26E 1	1 2	3				252	217	35	
C 01548	235	26E 1	1 2	3				250			
C 01310	235	26E 1	.1 2	31				250	220	30	
C 02153	235	26E 1	.1 2	4 1				275	200	75	
C 01866	235	26E 1	1 2	42				245	212	33	

Record Count: 7

## New Mexico Office of the State Engineer

Page	1	of	1
------	---	----	---

	fownship:	23S Range: 26E	Sections:	3			
NA	D27 X:	Y:	Zone:	2	Search Radiu	s:	
County:		Basin:		Numbe	er:	Suffix:	]
Owner Name:	(First)	(La	st)	O N	on-Domestic	C Domestic	@ Al
POD / S	urface Data	Report	Avg Depth to Wa	ter Report	Wat	er Column Repo	nt 🔰

WATER COLUMN REPORT 10/13/2008

	(quarter	s are 1=1	W 2=NE	3=SW 4=S	E)					
	(quarter	s are big	ggest to	smalles	t)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng Sec	ववव	Zone	x	Y	Well	Water	Column	
<u>C 02393</u>	23s	26E 03	4				290	245	45	
<u>C 02382</u>	238	26E 03	4				288	248	40	
<u>C 02264</u>	23S	26E 03	4				260			

Record Count: 3

,

water right 1.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

DB File Nbr: C 02264 Primary Purpose: 72-12-1 DOMESTIC ONE HOUSEHOLD DOM Primary Status: DCL Declaration Total Acres: 0 Total Diversion: 3 Owner: BEVERLY OR WILLIAM F. GILLOCK, Documents on File Doc File/Act Status 1 2 3 Trans\_Desc Acres Diversion From/To Consumptive DCL 11/30/1992 DCL PRC ABS C 02264 т 0 3 (qtr are 1=NW 2=NE 3=SW 4=SE) Point of Diversion (qtr are biggest to smallest X Y are in Feet UTM

are in Meters) POD Number source Tws Rng Sec q q q Zone х UTM\_Zone Easting Northing Latitude Longitude Other Location Description C 02264 23S 26E 03 13 - 4 568065 3577254 000 000 s1/2

(quarters are 1=NW 2=NE 3=SW 4=SE) Place of Use (quarters are biggest to smallest Tws Rng Sec q q q Acres Diversion Consumptive Use Priority Status Other Location Description 0 3 DOM DCL NO PLACE OF USE GIVEN water right 2.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

C 02382 DB File Nbr: 72-12-1 DOMESTIC ONE HOUSEHOLD DOM Primary Purpose: Primary Status: Total Acres: PMT Permit 0 Total Diversion: 3 Owner: GILLOCK JR WILLIAM F Owner: GILLOCK BEVERY Documents on File Acres Diversion Doc File/Act Status 1 2 3 Trans\_Desc From/To Consumptive 72121 03/09/1994 PMT LOG ABS C 02382 т 0 3 (qtr are 1=NW 2=NE 3=SW 4=SE) Point of Diversion (qtr are biggest to smallest X Y are in Feet UTM are in Meters) POD Number Source Tws Rng Sec q q q Zone х Y Latitude Longitude Other Location Description UTM\_Zone Easting Northing

C 02382		Shallow 23				1	13
568065	3577254	000	)	000	S1/2		

water right 3.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

DB File Nbr: C 02393 72-12-1 DOMESTIC ONE HOUSEHOLD Primary Purpose: DOM Primary\_Status: PMT Permit Total Acres: 0 Total Diversion: 3 Owner: GILLOCK JR WILLIAM F Owner: GILLOCK BEVERLY Documents on File Doc File/Act From/To Acres Diversion Status 1 2 3 Trans\_Desc Consumptive 72121 05/11/1994 PMT LOG ABS C 02393 Т 0 3

(qtr are 1=NW 2=NE 3=SW 4=SE) (qtr are biggest to smallest Point of Diversion UTM X Y are in Feet are in Meters) Tws Rng Sec q q q Zone X Y Latitude Longitude Other Location Description POD Number Source UTM\_Zone Easting Northing C 02393 shallow 235 26E 03 4 13 568065 3577254 000 000

water right 4.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

C 01548 DOM 72-12-1 DOMESTIC ONE HOUSEHOLD DB File Nbr: Primary Purpose: Primary Status: Total Acres: 0 Total Diversion: 3 Owner: JERRY CAMPBELL Documents on File Doc File/Act Status 1 2 3 Trans\_Desc Acres Diversion From/To Consumptive 72121 05/23/1974 PMT LOG ABS C 01548 3 т 0

(qtr are 1=NW 2=NE 3=SW 4=SE) (qtr are biggest to smallest Point of Diversion X Y are in Feet UTM are in Meters) POD Number Source Tws Rng Sec q q q Zone х UTM\_Zone Easting Northing Latitude Longitude Other Location Description Shallow 23S 0 0 0 23S 26E 11 2 3 0 0 0 0 0 C 01548 13 3576267 569510 N 1/2

.

water right 5.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

DB File Nbr: C 01708 72-12-1 DOMESTIC ONE HOUSEHOLD Primary Purpose: DOM Primary Status: Total Acres: PMT Permit 0 Total Diversion: 3 Owner: JERRY CAMPBELL Documents on File Status 1 2 3 Trans\_Desc Acres Diversion Doc File/Act From/To Consumptive 72121 08/25/1976 PMT LOG ABS C 01708 Т 0 3

(qtr are 1=NW 2=NE 3=SW 4=SE)Point of Diversion(qtr are biggest to smallestX Y are in FeetUTMare in Meters)POD NumberSourceTws Rng Sec q q qZoneXYUTM\_ZoneEastingNorthingLatitudeLongitudeOther LocationDescriptionC 01708Shallow23S26E112131356951035762670000013

water right 6.txt New Mexico Office of the State EngineerNew Mexico Office of the State Engineer Water Right Summary

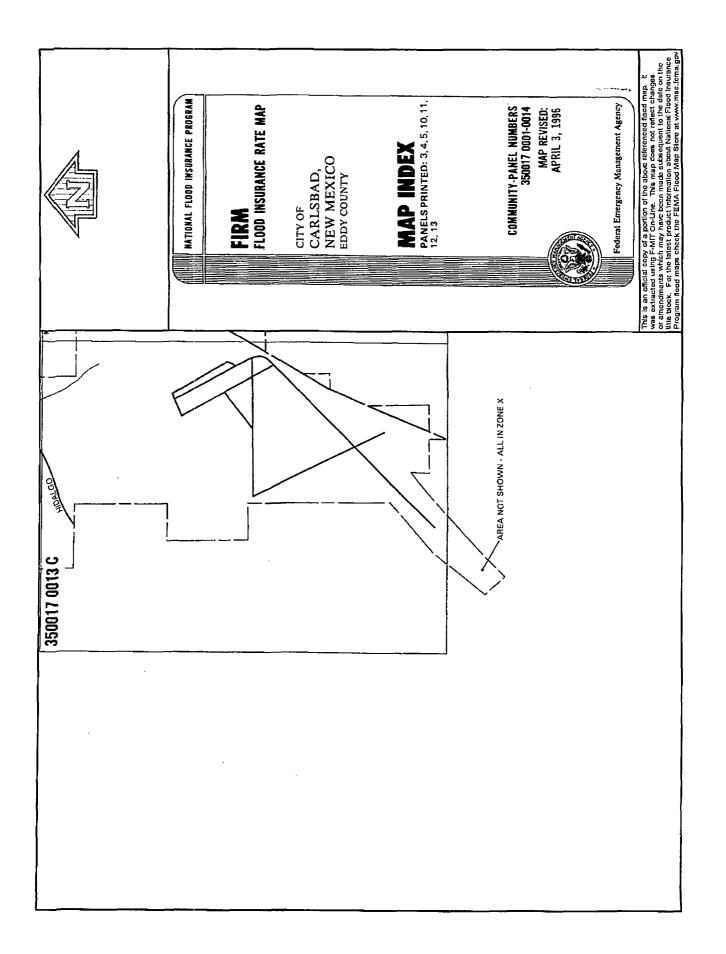
DB File Nbr: C 01635 72-12-1 DOMESTIC ONE HOUSEHOLD Primary Purpose: DOM Primary Status: Total Acres: PMT Permit 0 Total Diversion: 3 Owner: BOBBY W. ROBERSON Documents on File Doc File/Act Status 1 2 3 Trans\_Desc From/To Acres Diversion Consumptive 72121 12/10/1975 PMT LOG ABS C 01635 Т 0 3

(qtr are 1=NW 2=NE 3=SW 4=SE) Point of Diversion (qtr are biggest to smallest X Y are in Feet UTM are in Meters) POD Number Source Tws Rng Sec q q q Zone х Y UTM\_Zone Easting Northing Latitude Longitude Other Location Description C 01635 23S 26E 11 Shallow 13 0 0 0 569310 3576050 000 N1/2, SW1/4, NE 1/2

.

## APPENDIX D – FEMA Flood Map

.





Bill Richardson Governor Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary

Mark Fesmire Division Director Oil Conservation Division



September 30, 2008

Ms. Mary E. Hebert Director, Field Environmental P.O. Box 4324 Houston TX 77210-4324

#### Re: Closure Inspection Report, GW-232 Trunk "A" Compressor Station Chavez County, New Mexico

Dear Ms. Hebert:

The Oil Conservation Division (OCD) performed an onsite closure inspection of Enterprise Field Services LLC's Trunk "A" compressor station located in Section 10, Township 23 South, Range 26 East, NMPM, Chavez County, New Mexico on August 27, 2008. Jennifer Corser and Paul Murray of Enterprise guided the inspection.

A letter written to the OCD on February 6, 2008 indicates that this facility is closed and is not providing compression of gas and has submitted their closure report. The inspection determined the following, please reference photos to the attached inspection photo sheet.

- 1. **Photos 1 & 2**: Compressor concrete slab is still on site with protruding underground conduits. Enterprise shall remove concrete slab and conduits.
- 2. **Photo 3 6**: Used and remaining debris, tanks and barrels need to be removed and properly disposed of, **photo 4**, show tank bottoms located directly on the ground. Waste shall never be placed directly on the ground. Enterprise shall properly remove unused items, waste and clean up any soil contamination on site.
- 3. **Photo 15**: An unused saddle tank is left in the yard. If tank is not longer needed for operation of this facility it shall be removed from site. Enterprise shall remove this tank if not in use.

The Oil Conservation Division has concluded that due to the remaining above referenced items the facility has yet to be properly closed. All equipment that pertained to the operation and use of the compressor and are currently non-operational shall be removed from the site. Any contamination or remaining waste shall be properly disposed of and resolved Therefore the OCD request that Enterprise Field Services submit a complete closure plan to resolve these findings within **30 days**, by **October 31, 2008**, of this dated inspection letter. Submit the plan to Mr. Jim Griswold of the Santa Fe OCD Environmental Bureau office, the current Enterprise permit reviewer.



Ms. Mary E. Hebert September 30, 2008 Page 2

At the time of inspection the OCD was informed that this location is still in use for transferring and the metering of natural gas including the use of three above ground storage tanks and a below grade tank. The OCD has concluded the following of the operational used equipment, please reference photos to the attached inspection photo sheet.

- 1. **Photo 7, 11, 12**: The integrity of liner underneath the three above ground storage tanks is a concern to the OCD. The liners are not properly seamed and welded throughout. Enterprise Field Services shall properly reline this containment area.
- Photo 8 10: The integrity of the below grade tank needs to be verified. Liquids are present within its leak detection system. The leak detection appears to have a breach in its upper boundary, photo 10, where detection of false readings may result. Enterprise Field Services shall remove the liquids from the detection system and prevent any unnecessary fluids from entering. The OCD also requests the engineering design drawing of this tank.
- 3. **Photo 13**: this above ground storage tank has a visible pin-hole leak. This is unacceptable. Enterprise Field Services shall either repair the tank or replace it immediately.

The OCD is requesting that Enterprise Field Services **submit a discharge plan application** for the remaining tanks and activity located at this station. The OCD has concluded that the conditions of all tanks on location do not adhere to best management practices. Enterprise Field Services has **30 days**, **by October 31, 2008** to submit a renewal application for this facility. The application shall provide resolution to the leaking tank, the liner and the below grade tank. Submit the application to Mr. Jim Griswold.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3492, E-mail <u>Leonard.Lowe@state.nm.us</u> or Jim Griswold at (505) 476-3465, E-mail <u>Jim.Griswold@state.nm.us</u>.

Sincerely,

Leonard Lowe Environmental Engineer

xc: Jennifer Corser, Enterprise Field Services Environmental Specialist
 Jim Griswold, OCD Santa Fe, Hydrologist
 Mike Bratcher, OCD District II Office, Artesia