GW - 50 -1

# GENERAL CORRESPONDENCE

YEAR(S):

2006-1985

# AFFIDAVIT OF PUBLICATION STATE OF NEW MEXICO

I, Fran Saunders Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time

beginning with the issue dated

March

31st

2006

and ending with the issue dated

March

31st

2006

From Saundons Clerk

Sworn and subscribed to before me

this 31st Day of

Day of March

2006

Notary Public

My Commission expires
July 25, 2006

(SEAL)

Publish March 31, 2006

#### 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 Quality control Commission Regulations, the following discharge permit applications have been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-050) Agave Energy Company, Ms. Jennifer Knowlton, Environmental Engineer, 105 South Fourth Street, Arlesia, New Mexico 88210, has submitted applications for renewal for the previously approved discharge permits for their Bitter Lake Station (GW 50-1), Red Bluff #1 Station (GW 50-5), Red Bluff #2 Station (GW 50-7), and Red Bluff #3 Station (GW 50-8). All are natural gas compressor stations with arsenic removal systems. The locations of the four stations are:

- 1. Bitter Lake Station, NE/4 NW/4 of Section 10, Township 9 South, Range 25 East. NMPM, Chaves County, New Mexico.
- 2. Red Bluff #1 Station, NW/4 SE/4 of Section 2. Township 8 South, Range 22 East, NMPM, Chaves County New Mexico.
- 3. Red Bluff #2 Station, SW/4 NE/4 of Section 34, Township 7 South, Range 25 East, NMPM, Chaves County, New Mexico.
- 4. Red Bluff #3 Station, NW/4 SE/4 of Section 10, Township 7 South, Range 25 East, NMPM, Chaves County, New Mexico.

A total estimated volume of 2,500 gallons per year of produced water, lube oil and spent glycol is discharged to above ground tanks prior to off-site disposal at an OCD-approved facility. Groundwater most likely to be affected by any accidental spill is at a depth greater than 160 feet with a total dissolved solids concentration ranging from 2,400 to 8,200 mg/L. The discharge permit addressens we spills. leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division any may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. 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 there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe. New Mexico, on this 27th day of March 2006.

SEAL

STATE OF NEW MEXICO OIL CONSERVATION DIVISION Mark E. Fesmire, P.E., Director NM EMNRD OIL CONSERVATEON

ATTO: Ed Mattin

1220 S ST FRANCIS DR SANTA FE NM 87505 ALTERNATE ACCOUNT: 56689

AD NUMBER: 00162253 ACCOUNT: 00002212

LEGAL NO: 78684 P.C

P.O. #: 06-199-050125

264 LINES 1 TIME(S)

147.84

AFFIDAVIT:

6.00

TAX:

11.73

TOTAL:

165.57

AFFIDAVIT OF PUBLICATION

# STATE OF NEW MEXICO COUNTY OF SANTA FE

I, R, Lara, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #78684 a copy of which is hereto attached was published in said newspaper 1 day(s) between 03/31/2006 and 03/31/2006 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 31st day of March, 2006 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/\_\_\_\_\_LEGAL ADVERTISEMENT REPRESENTATIVE

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 31st day of March, 2006

Notary Laura E. Ha

Commission Expires:

11/23/07

OK Martin



# NOTICE OF PUBLICATION

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

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- 3. Red Bluff #25 Mation, SW/4 NE/4 of Section 34, Township 7 South, Range 5 East, NMPM, Chaves County, New Mexico.
- 4. Red Bluff #3 Station, NW/4 SE/4 of Section 10, Township 7 South, Range 25 East, NMPM, Chaves County, New Mexico.

A total estimated volume of 2,500 gallons per year of produced water, lube oil and spent glycol is discharged to above ground tanks prior to off-site disposal at an OCD-approved facility. Groundwater most likely to be affected by any accidental spill is at a depth greater than 160 feet with a total

dissolved solids concentration ranging from 2,400 to 8,200 mg/L. The discharge permit addresses how spills, leaks and other accidental discharges to the surface will be managed

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of March 2006.

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION

S E A L Mark E. Fesmire, P.E., Director Legal #78684 Pub. Mar. 31, 2006

### NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27<sup>th</sup> day of March 2006.



SEAL

Mark E. Fesmire, P.E., Director

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4275

#### Via Certified Mail 7005 2570 0000 8325 6914

March 3, 2006

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

906 MAR

Re:

Agave Energy Company

**Discharge Plan Renewal Applications** 

Dear Ed:

Enclosed are two copies of the renewal applications for the following facilities:

Red Bluff #1 Compressor Station GW-050-7
Red Bluff #2 Compressor Station GW-050-5
Red Bluff #3 Compressor Station GW-050-8
Bitter Lake Compressor Station GW-050-1

If you have any questions regarding any of the information in the applications for renewal, please feel free to call me at 505-748-4471 or email me at jknowlton@ypcnm.com.

Sincerely,

Jennifer Knowlton

Environmental Engineer

Cc: OCD District II

# OIL CONSERVATION DIVISION DISCHARGE PLAN GW-050-1 RENEWAL AGAVE ENERGY COMPANY BITTER LAKE COMPRESSOR STATION



March 3, 2006

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

E-mail Address: jknowlton@ypcnm.com

State of New Mexico
Energy Minerals and Natural Resources

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

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

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

•	
	New Renewal Modification
1.	Type: Compressor Station
2.	Operator: Agave Energy Company
	Address: _105 South Fourth Street Artesia NM 88210
	Contact Person: Jennifer Knowlton Phone: 505-748-4471
3.	Location: <u>NE</u> /4 <u>NW</u> /4 Section <u>10</u> Township <u>9S</u> Range <u>25E</u> Submit large scale topographic map showing exact location.
4.	Attach the name, telephone number and address of the landowner of the facility site.
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.
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste wate must be included.
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.
11.	Attach a contingency plan for reporting and clean-up of spills or releases.
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCC rules, regulations and/or orders.
	CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the t of my knowledge and belief.
Naı	me: <u>Jennifer Knowlton</u> Title: <u>Environmental Engineer</u>
Sig	nature: Omniby Knowlton Date: 3/2/2006

Agave Energy Company
Bitter Lake Compressor Station
Discharge Permit GW-050-1 Renewal
March 3, 2006
Page 1 of 2

1. Type: Compressor Station

2. Operator: Agave Energy Company

Address: 105 South Fourth Street Artesia NM 88210

Contact Person: Jennifer Knowlton

Phone: 505-748-4471

3. Location: NE/4 NW/4
Section 10
Township 9S
Range 25E

4. Landowner: Agave Energy Company

- 5. The Bitter Lake Compressor Station is part of a small localized gas gathering system that gathers sweet gas from multiple wells in the area and compresses this gas for delivery to a main line. The SIC code for the facility is 4922. The facility consists of two Cooper Bessemer GMVH-10C compressor engines, one Caterpillar G3606 compressor engine, a glycol dehydration unit, several small storage tanks, and various pumps, meters, and ancillary equipment. A plot plan is attached.
- 6. Materials Stored or Used at Facility:
  - 1. TK-1: 400 bbl Condensate
  - 2. T-2: 400 bbl condensate
  - 3. TK-7 911: 50 bbl oily waste water
  - 4. TK-6 913: 50 bbl used lube oil
  - 5. Tk-3: 1500 gallon ambitrol
  - 6. Tk-4: 1500 gallon glycol
  - 7. Tk-5: 1500 gallon lube oil
  - 8. Tk-10 1425: 180 bbl lube oil
  - 9. Tk-9 1427: 55 bbl ambitrol
  - 10, Tk-8: 1000 gallon methanol
  - 11. Tk-11 9110: 50 bbl oily waste water
  - 12. Tk-12 919: 50 bbl used lube oil
  - 13. 3399: 107 bbl waste water
  - 14. 6900 pounds of arsenic catalyst
- 7. Present Sources of Effluent and Waste Solids:
  - 1. Inlet separator 5 to 50 BPD of produced water and condensate, RCRA exempt
  - 2. Engine cooling water 100 to 200 gallons per year, RCRA exempt
  - 3. Waste engine oil 500 gallons per year, RCRA non-Exempt
  - 4. Oily waste water 500 gallons per year, RCRA non-Exempt
  - 5. Engine filters 50 per year, RCRA non-Exempt
  - 6. Discharge vessel 5 to 50 BPD of produced water and condensate, RCRA exempt
  - 7. Arsenic vessel 5 to 50 BPD of produced water and condensate, RCRA exempt
  - 8. Glycol dehydrator <20 BPD of wastewater containing hydrocarbons, RCRA exempt
  - 9. Fuel treating vessel 6800 pounds average of arsenic a year, RCRA exempt

Agave Energy Company
Bitter Lake Compressor Station
Discharge Permit GW-050-1 Renewal
March 3, 2006
Page 2 of 2

## 8. Current Liquid and Solid Waste Collection, Treatment and Disposal Procedures:

Oil waste and used engine oil is transported via Jim's Water Well Service to the Yates Pathfinder #13 SWD or the Federal HJ#1 SWD. Oily wastewater and oil/condensate are placed in separation tanks, where oil and water are separated prior to disposal. The water is disposed of in either of the wells mentioned above. The condensate is reintroduced into the production stream. Both disposal wells are approved and permitted by OCD.

In the event of a spill within the containment, the spill is pumped out of the containment with a sump pump and disposed of according to the type of liquid as described above. If the spill occurs on the ground, the soil is removed from site with the proper excavation equipment.

The arsenic catalysts are placed into containers onsite and transferred by Controlled Recovery, Inc to CRI's landfill in Halfway, New Mexico.

9. Proposed Modifications to existing Collection, Treatment and Disposal Systems:

At this time, there are no proposed modifications to the existing collection, treatment, or disposal system.

# 10. Inspection and Maintenance Plan:

- a. Company personnel make daily inspections of the site during normal business hours. Malfunctions or breakdowns are noted and repaired.
- b. Any repair work that is needed is performed as required.
- c. A regular maintenance program is diligently carried out on all on-site equipment.

### 11. Plan for reporting and Cleanup of Spills or Releases:

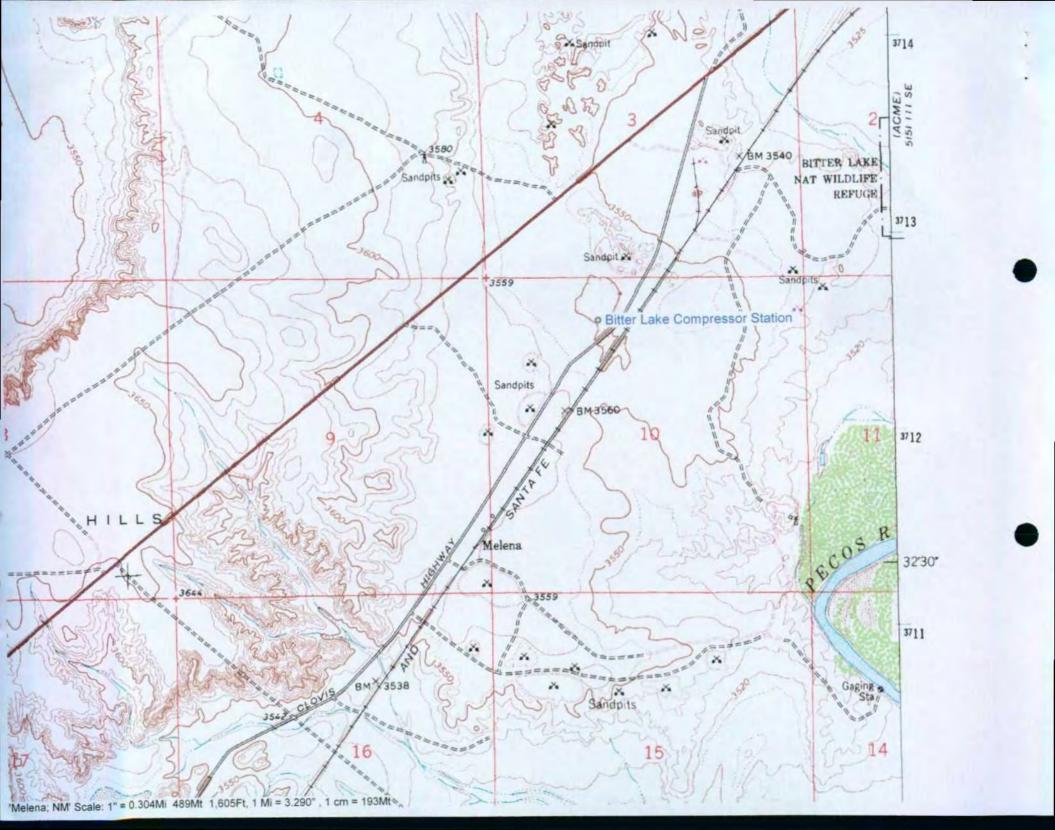
- a. Standard company policy is to immediately secure the area to insure the safety of personnel and the public.
- b. Employees and contract personnel are dispatched to the spill area with necessary equipment and materials necessary to control and contain the spill and initiate clean-up program as soon as practicable.
- c. Notification and any necessary follow-up reports will be made to the appropriate agencies (BLM, OCD, etc) pursuant to regulations.

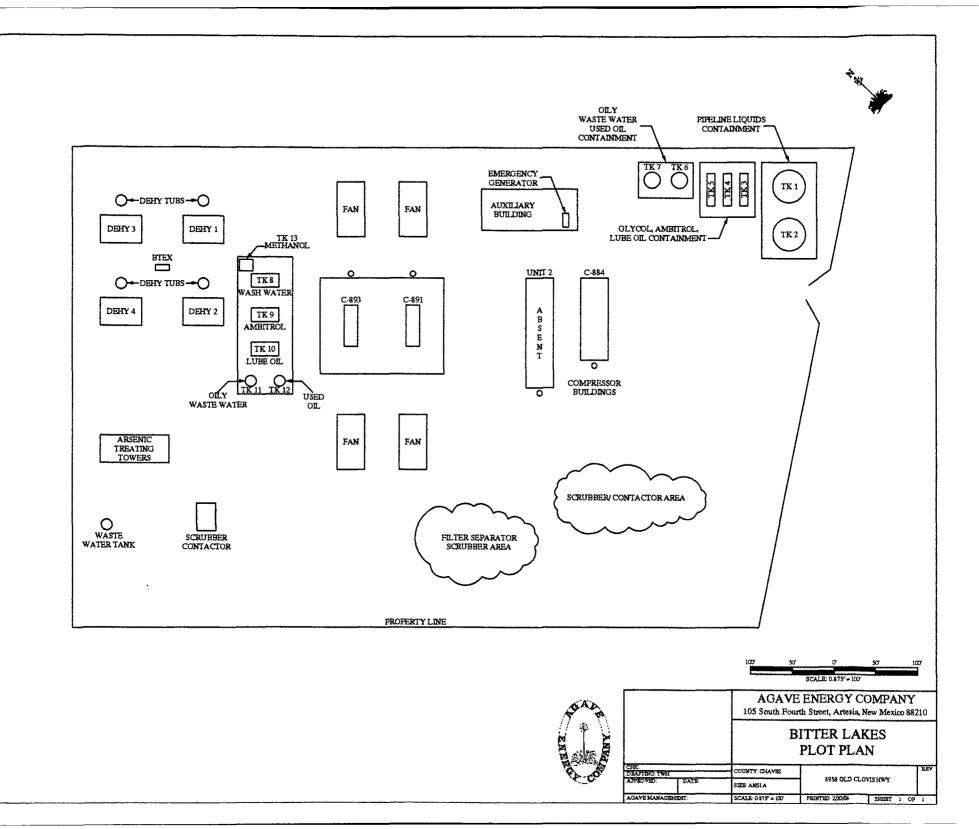
#### 12. Geologic and Hydrological Information:

The facility is located in the northeast of Roswell near US Highway 70. The station is located in a sandy-loamy soil within one mile of the Pecos River and is subject to drainage to the east. The area is primarily rangeland consisting of prairie grass and mesquite. There is a commercial sand and gravel pit near the facility. Non-potable surface waters are present at depths less than 30 feet and potable Artesia water is present at depths of approximately 100 feet or more.

#### 13. Facility Closure Plan:

At this time, there are no plans to close the facility. The facility will operate for the foreseeable future. In the event that this changes, notice will be sent to the Oil Conservation Division and closure plans will be formulated.





# Martin, Ed, EMNRD

From:

Jennifer Knowlton [jknowlton@YPCNM.COM]

Sent:

Tuesday, January 31, 2006 11:40 AM

To:

Martin, Ed, EMNRD

Subject:

Agave Discharge Permits

Attachments: Jennifer Knowlton.vcf

Ed.

I went through the files that our aid copied for me and I have a couple of guestions and clarifications.

AF Red Bluff #₹ (GW 50-7) expired on 4/7/05. I will be working on the renewal application in February or Red Bluff #21(GW 50-5) expired on 6/13/04. I will be working on the renewal application in February. Red Bluff #3 (GW 50-8) - there wasn't a copy of the actual discharge permit in the file. Granted, I didn't copy the files, the the aid copied everything else except the maps. Could this have been misfiled? Can I get a copy of the discharge permit for my files? I am assuming that it has expired, but I don't know that for sure. Bitter Lake (GW 50-1) expired 6/13/04. I will be working on the renewal application for February.

I will work on formal closure plans for the following facilities: Ned State (GW 50-4), Red Bluff #4, Red Bluff #5, and Red Bluff #6. I haven't found permit numbers for the last three facilities. If you can match these facilities to the permit number, it will make the paper work easier.

I also found a letter from Agave to OCD stating that the following facilities weren't operational: Haystack (GW 50-2), Isler (GW 50-3) and Salt Creek (GW 50-6). These have not been operational since before Agave purchased the facilities from Transwestern. We immediately made system wide changes that permanently shut these facilities down. Are the discharge permits still "open" and if so, do I need to formally close them as with the Ned State etc permit?

I appreciate your help with this. I will be working on the renewals for the four permits that have expired next month so that those are taken care of as quickly as possible. Then I will focus my attention on the modified permit for the Agave Dagger Draw Gas Plant.

If you could get back to me on the closures by Wednesday I would appreciate it. Weather permitting (i.e. not blowing 100 mph), Ivan and I are going to visit those sites and take the pictures that you requested for the closure. If we need to visit additional faculties to formally close the discharge permit, it would be easier to do it that day since they are in the same relative location.

Thanks, Jen

Jennifer Knowlton Agave Energy Company **Environmental Engineer** 105 South Fourth Street Artesia, New Mexico 88210 Office: 505-748-4471

Fax: 505-748-4275

# **ENERGY COM**

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4275

Mr. Ed Martin State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

July 22, 2002

RE:

**Discharge Plan Modifications** 

**GW-50-01 Bitterlake Compressor Station** GW-50-05 Red Bluff #1 Compressor Station

Dear Ed,

Agave is requesting modification of the above two discharge plans to incorporate the down hole disposal of spent catalyst. Discharge Plan Application forms, along with a description of the proposed changes, are enclosed.

A check in the amount of \$1900 in payment of filing fees plus one-half permit fee assessed pursuant to 20.6.2.3114 (C) NMAC for modification of Discharge Plans of Gas Compressor Stations > 1001 horsepower is also attached.

If you need additional information or have questions, please call me at 505-748-4185 or Greg Jokela at 505-748-4525.

Sincerely,

Lisa Norton, **Environmental** 

Coordinator

cc:

Greg Jokela, Agave

NOTE: CHECK RETURNED TO, AGAVE 8/7/02. THIS IS A MINOR

MODIFICATION

# Martin, Ed

From:

Martin, Ed

Sent:

Wednesday, August 07, 2002 10:43 AM

To:

Lisa Norton (E-mail)

Subject:

Discharge Permit Modifications

I received your modification request for Red Bluff (GW-50-05) and Bitter Lakes (GW-50-01) and your check #53856 in the amount of \$1,900. We would consider this a minor modification and there are no fees due for this. Therefore, I am returning your check in snail mail.

Please consider this e-mail as approval for the modifications to both facilities.

Let me know if you have questions.

#### Ed Martin

New Mexico Oil Conservation Division Environmental Bureau 1220 S. St. Francis Santa Fe, NM 87505

Phone: 505-476-3492 Fax: 505-476-3471 District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

7/19/2002

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised January 24, 2001

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 FACILITIES AND CRUDE OIL PUMP STATIONS

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

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	☐ New ☐ Renewal ☐ Modification				
1.	Type: Natural Gas Compressor Station				
2.	Operator: Agave Energy Company				
	Address: 105 South Fourth St. – Artesia, NM 88210				
	Contact Person: Lisa Norton Phone: 505-748-4185				
3.	Location: NE /4 NW /4 Section 10 Township 9S Range 25E Submit large-scale topographic map showing exact location.				
4.	Attach the name, telephone number and address of the landowner of the facility site.				
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.				
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of wastewate must be included.				
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.				
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.				
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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.				
I he	CERTIFICATION creby certify that the information submitted with this application is true and correct to the best of my knowledge belief.				
N	Name: Lisa Norton Title: Environmental Coordinator				
	Signature: Date: July 19, 2002 e/bitterlake/dischargeplan.doc				

# Agave Energy Company Bitter Lakes Discharge Plan GW 50-01 Modification/Addition to Existing Discharge Plans July 19, 2002

# **Waste Streams**

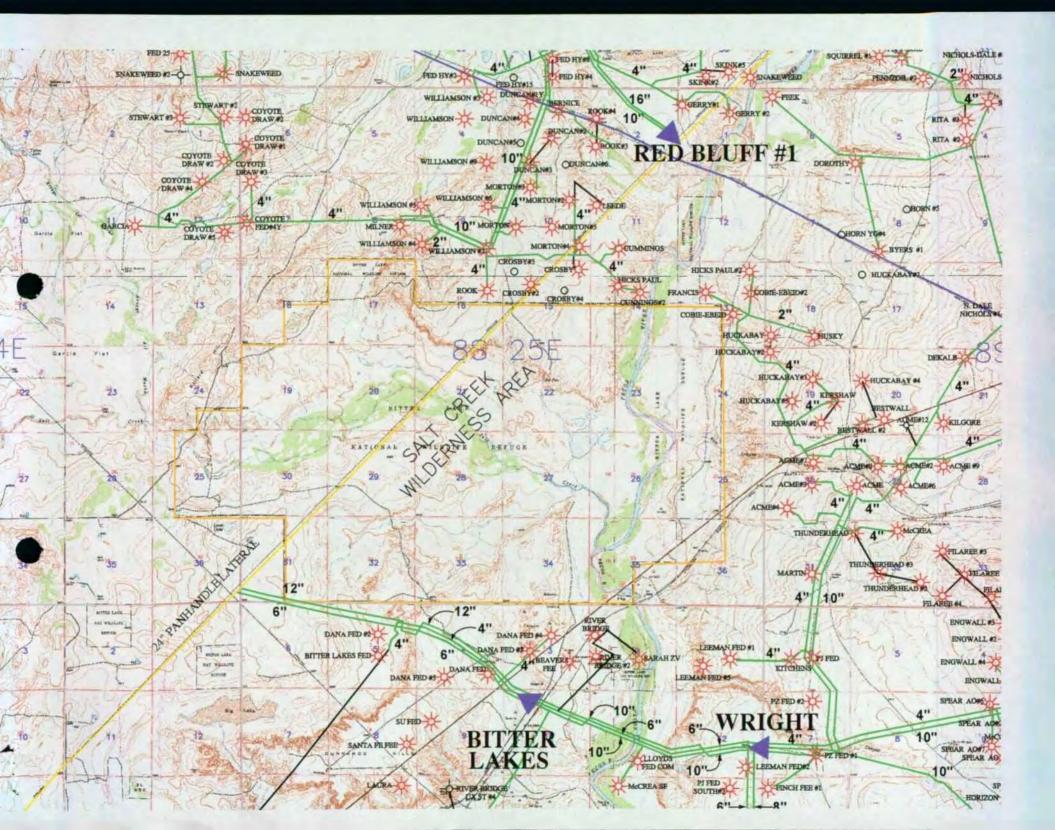
- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA Exempt
- 5. Engine Filters 50 per year, RCRA Exempt
- 6. Spent Gas Treating Catalyst 14,222 lbs per year, RCRA Exempt

# **Disposal Plan for Waste Products:**

Oil Waste and used engine oil are transported via Jim's Water Well Service or another available contractor to the Yates Pathfinder SWD, located in Section 21 T10S R27E, or the Yates Mitchell SWD, Located in section 23 T17S R25E, and placed in a separation tank, where oil and water are separated before disposal. Water is disposed of in the well and oil by-products are transferred to tanks and introduced back into the production stream. Both disposal wells are approved and permitted by OCD.

Engine filters have been determined to be non-hazardous based on laboratory tests performed by Assaigai Analytical Laboratories, Inc., Albuquerque, NM. Care is taken in the maintenance of equipment to extend the life of the filters to help minimize waste materials. Used filters are handled in a method to insure that all free liquid is drained and returned to the used oil container, where it is stored prior to disposal as per paragraph 1. Waste Management-Southeast New Mexico, disposes of used filters at a properly permitted facility.

The spent catalyst is a RCRA exempt material. It is containerized in drums until it is transported, in accordance with DOT regulations, for down hole disposal. The spent catalyst material will be disposed of in abandoned wells. The procedure will be to mix the catalyst with drilling mud on the surface and pump the catalyst/mud mixture into the abandoned well bore between cement plugs, using conventional plugging techniques pursuant to NMOCD guidelines. The well will then be properly marked with a "dry hole marker".



# Discharge Plan GW 50-1, 5,

# Waste Streams

## 1. Bitter Lakes

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA Exempt
- 5. Engine Filters 50 per year, RCRA Exempt
- 6. Spent Gas Treating Catalyst 14,222 lbs per year, RCRA Exempt

### 2. Red Bluff #1

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA Exempt
- 5. Engine Filters 50 per year, RCRA Exempt
- 6. Spent Gas Treating Catalyst 18,804 lbs per year, RCRA Exempt

# **Disposal Plan for Waste Products:**

Oil Waste and used engine oil are transported via Jim's Water Well Service to the Yates Pathfinder SWD, located in Section 21 T10S R27E, or the Yates Mitchell SWD, Located in section 23 T17S R25E, and placed in a separation tank, where oil and water are separated before disposal. Water is disposed of in the well and oil by-products are transferred to tanks and introduced back into the production stream. Both disposal wells are approved and permitted by OCD.

Engine filters have been determined to be non-hazardous based on laboratory tests performed by Assaigai Analytical Laboratories, Inc., Albuquerque, NM. Care is taken in the maintenance of equipment to extend the life of the filters to help minimize waste materials. Used filters are handled in a method to insure that all free liquid is drained and returned to the used oil container, where it is stored prior to disposal as per paragraph 1. Waste Management-Southeast New Mexico, disposes of used filters at a properly permitted facility.

The spent catalyst is a RCRA exempt material. It is containerized in drums until it is transported, in accordance with DOT regulations, for down hole disposal. The spent catalyst will be disposed by putting the material in abandoned wells. The procedure will be to mix the catalyst with drilling mud on the surface and pump the catalyst/mud mixture into the abandoned well bore placed between cement plugs, using conventional plugging techniques. The well will be properly marked with a "dry hole marker". The well will be plugged and abandoned with cement plugs as per NMOCD Guidance.

Well Name	Sec	T	R	Comments
Allison CQ Federal #1	22	19S	24E	
Allison CQ Federal #3	15	19S	24E	
Blazer XN State #1	15	7S	23E	
Box Canyon GJ Fed #1	14	21S	21E	
Burton AER Com #1	26	16S	27E	
Caudill RZ #1	8	6S	26E	
Doris RI Fed #3	27	5S	25E	
Eagle Creek BL #2	23	17S	25E	
Federal 33-1	33	20S	26E	
Federal BQ #7	27	17S	25E	
Federal CD #4	29	17S	25E	
Federal CD #8	29	17S	25E	
Harvey JI Federal #1	23	21S	21E	
Hourglass AEG St #1	16	18S	35E	
Joyce HG #1	22	18S	26E	
Lillie M Yates Fed #3	31	88	37E	
Powell State #1	17	18\$	28E	
Sara AHA Com #1	11	20\$	24E	
Savanah State #2	32	98	25E	
Skink SK State #1	32	7S	26E	
Stonewall DS #2	29	208	28E	
Top Hat AJQ State #1	35	23S	33E	
Vest Ranch RE Fed #1	21	148	30E	
White BU #1	14	17S	25E	
Wilcox TS #2	19	7S	32E	

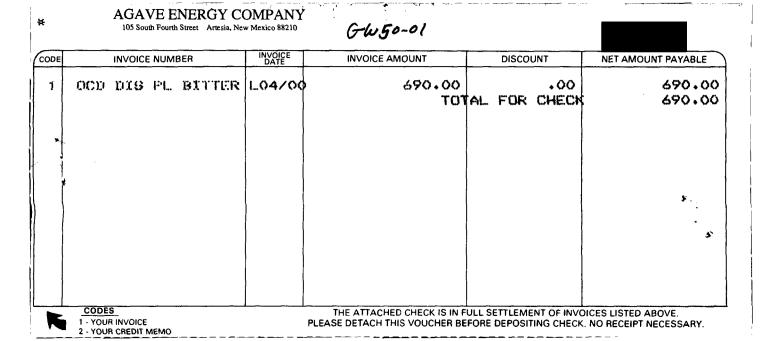
# Loco Hills Area

Loco milis Area				
Ballard A #4	1	18S	29E	
Ballard A #5	1	18S	29E	
Ballard B #2	1	18S	29E	
Brigham #3	31	17S	30E	
Scheurich #3	32	17S	30E	
Scheurich #9	32	17S	30E	
Scheurich A #1	32	17S	30E	
Scheurich A #5	32	17S	30E	
Scheurich B #6	32	178	30E	
Tallmadge #1	32	17S	30E	
West Loco Hills Unit Tr 13 #10	12	18S	29E	
West Loco Hills Unit Tr 25 #1	1	18S	29E	
West Loco Hills Unit Tr 29 #1	2	18S	29E	
West Loco Hills Unit Tr 31 #3	2	18S	29E	
West Loco Hills Unit Tr 32A #7	11	18S	29E	
West Loco Hills Unit Tr 34 #4	2	18S	29E	
West Loco Hills Unit Tr 34 #5	2	18S	29E	
West Loco Hills Unit Tr 37 #1	11	18S	29E	
West Loco Hills Unit Tr 40 #2	1	18S	29E	
West Loco Hills Unit Tr 6 #2	12	18S	29E	
Yates #1	6	18S	30E	
Yates #6	6	18S	30E	
Yates A #1	6	18S	30E	
Yates A #15	6	18S	30E	
Yates A #3	6	18S	30E	
Yates A #5	6	188	30E	

Yates A #6	6	18S	30E	
Yates A #8	7	18S	30E	

# Saunders Area

Chalupa AAD State #1	13	148	33E	
Chalupa AAD State #3	14	148	33E	
Dove VK State #1	3_	148	33E	
Dove VK State #2	3	14S	33E	
Dove VK State #3	3	14S	33E	
Dove VK State #4	3	14S	33E	
Woodpecker SY State #1	21	14S	33E	
Woodpecker SY State #2	22	14S	33E	
Woodpecker SY State #5	23	14S	33E	
Woodpecker SY State #6	24	148	33E	
Woodpecker SY State #7	25	14S	33E	
Woodpecker SY State #8	26	148	33E	



# ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby ack	nowledge receipt o	f check No.	_ dated _4/20/2
or cash recei	ved on	in the amoun	nt of \$ 690°
from AGAVE	ENERGY CO.		
	LAKE COMPRESSOI	r st.	GW50-01.
(Fac	WAYUE PRICE		OP No.
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Organization	Code <u>521.07</u>	Applicable	FY 2000
To be deposit	ed in the Water Qu	uality Management	Fund.
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<b>-</b>	OI AIII	INGT THE SHELL	-
NationsBank	ACAME ENIEDOM	COMPANIX	
<u>32-1</u> 1110	AGAVE ENERGY  105 South Fourth S		
	Artesia, New Mexico	88210	
	505-748-4555		
DATE 4/20/2000 VENDOR!			
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2040 SOUTH PAC SANTA FE	HECO NM 87505	Dava XX tun	wii .
_		Dona DAlle	110
GW50-01		TOWN F. VOG	7000

#### AFFIDAVIT OF PUBLICATION

## COUNTY OF CHAVES STATE OF NEW MEXICO

I, Fran Saunders, Legal Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time

week s

begining with issue dated March 1st

2000

and ending with the issue dated March 1st

2000

a Saunders

Sworn and subscribed to before me

This 6th March day of 2000

My Commission expires July 25, 2002

(SEAL)

Publish March 1, 2000

#### NOTICE OF PUBLICATION

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

i 🎆 in PH Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505)827-7131: ..... 👝 👙 😁

(T 1) (GW-50) - Agave Energy Company., Paul Ragsdale, Vice President, 105 South Fourth Street, Artesia, New Mexitio 88210, has submitted discharge plan renewal applications for Bitter Lake Station (GW50-1) and Red Bluff #1 Station (GW50-05); and new discharge plan applications for Red Bluff #2 (GW50-07) and Red Bluff #3 (GW50-08) all being natural gas compressor stations with arsenic removal systems. The locations for the four (4) stations are:

1. Bitter Lake Station, NE/4NW/4, Section 10; Township 9 South, Range .. <sup>भ</sup>दानात् हेळ्ला Bitter Lake Station, Nezerona, Sounds, New Mexico.

2. Red Bluff#1 Station, NW/4SE/4, Section 2, Township 8 South, Range 22

East, NMPM, Chaves County, New Mexico.

3. Red Bluff/2 Station, SW/4, NE/4, Section 34, Township 7 South, Range 25
East, NMPM, Chaves County, New Mexico.

4. Red Bluff/3 Station, NW/4, SE/4, Section 10, Township 7 South, Renge 25 East, NMPM, Chaves County, New Mexico.

A total estimated volume of 2500 gallons per year of produced water, tube oil and spent glycol is discharged by above ground tanks prior to off site disposal at an OCD approved disposal (scility, Groundwater most likely to be affected by any accidental spill is at a depth greater than 160 feet with a total dissolved solids concentration ranging from 2400 to 8200 mg/1. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m. Monday through Friday. Prior to ruling on any proposed discharge plan or its modifica tion, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public

interest. 2000 to sent occurs and a strong into next prince if no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing. 

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of February, 2000. - marchine the contract the 文件第一部进行

19 m 1 m. 2 2 m. 1 m. 1 STATE OF NEW MEXICO 4 14 OIL CONSERVATION DIVISION Roger Anderson for LORI WROTENBERY, Director

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# The Santa Fe New Mexican

# Since 1849. We Read You.

NM OIL CONSERVATION DIVISION

ATTN: DONNA DOMINGUEZ

COL CONSERVATION DIVERGIS ACCOUNT: 56689 AD NUMBER: 135492

LEGAL NO: 66964

P.O.#: 00199000278

1 time(s) at \$ 97.42 221 LINES

AFFIDAVITS: 5.25

TAX: 6.42 TOTAL: 109.09

AFFIDAVIT OF PUBLICATION

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, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) **827-7131:** , , , ,

(GW-50) - Agave Energy Company, Paul Ragsdale, Vice President, 105 South Fourth Street, Artesia, New Mexico 88210, has sub-mitted discharge plan renewal applications for Bit-ter Lake Station (GW50-1) and Red Bluff #1 Station (GW50-05); and new discharge plan applications for Red Bluff #2 (GW50-07) and Red Bluff #3 (GW50-08) all being filed natural gas compressor stations with arsenic removal systems. The locates for the four (4) stations are:

Bitter Lake Station, NE/4 NW/4, Section 10, Township 9 South, Range 25 East, NMPM, Chaves County, New Mexico.

2. Red Bluff #1 Station, NW/4 SE/4, Section 2, Township 8 South, Range 22 East, NMPM, Chaves

County, New Mexico.

3. Red Bluff #2 Station,
SW/4, NE/4, Section 34,
Township 7 South, Range
25 East, NMPM, Chaves

County, New Mexico.
4. Red Bluff #3 Station,
NW/4, SE/4, Section 10,
Township 7 South, Range
25 East, NMPM, Chaves County, New Mexico.

A total estimated volume of 2500 gallons per year of produced water, lube oil and spent glycol is dis-charged to above ground tanks prior to off site dis-posal at an OCD approved disposal facility. Groundwater most likely to be arfected by any accidental spill is at a depth greater than 160 feet with a total dissolved solids concentration ranging from 2400 to 8200 mg/l. The discharge plan will address how spills; leaks, and other ac STATE OF NEW MEXICO cidental discharges to the COUNTY OF SANTA FE surface will be managed.

discharge plan application may be viewed at the #66964 the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested 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 there is signifidetermines unercant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information approve or disapprove or disapprove the proposed plan based on information available. director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of February, 2000.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director

Legal #66964 Pub. March 2, 2000

Any interested person may say that I am Legal Advertising Representative of THE obtain further information SANTA FE NEW MEXICAN, a daily newspaper published in from the Oil Conservation, the English language, and having a general circulation Division and may submit in the Counties of Santa Fe and Los Alamos. State of Director of the Oil Conser New Mexico and being a Newspaper duly qualified to publish vation Division at the ad-dress given above. The Chapter 167 on Session Laws of 1937: that the publication Chapter 167 on Session Laws of 1937; that the publication a copy of which is hereto attached was published above address between in said newspaper 1 day(s) between 03/02/2000 and 8:00 a.m. and 4:00 p.m..

Monday through Friday.

Prior to ruling on any pro
newspaper proper and not in any supplement; the first newspaper proper and not in any supplement; the first posed discharge plan or publication being on the 2 day of March, 2000 is modification, the Direction and that the undersigned has personal knowledge of the last the Oil Conservation marrer and things set forth in this affidavit Division shall allow at matter and things set forth in this affidavit.

least thirty (30) days after

LEGAL ADVERTISEMENT REPRESENTATIVE

by any interested person. Subscribed and sworn to before me on this

March A.D., 2000 1 day of

Commission Expires \_\_\_

OK FOR DATAMENT

P.O. Box 2048 • Santa Fe, New Mexico 87501

505~983~3303

# AGAVE ENERGY COMPANY

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4576



March 31, 2000

Wayne Price Oil Conservation Division 2040 S. Pacheco St. Santa Fe, NM 87505

Re: Discharge Plan GW-50-1(Bitter Lake), GW-50-5 (Red Bluff #1), GW-50-7 (Red Bluff #2), GW-50-8 (Red Bluff #3)

Dear Mr. Price:

I have included information you request in your letter dated February 24<sup>th</sup> regarding the above stated discharge plans.

If you need further assistance please call me at 505 748-4526.

Sincerely,

Paula Haggith

Engineer

# Discharge Plan GW 50-1,5,7,8

#### Waste Streams

### 1. Bitter Lake

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA non-Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA non-Exempt
- 5. Engine Filters 50 per year, RCRA non-Exempt
- 3. Spent Gas Treating Catalyst 14,222 lbs per year, RCRA Exempt

## 2. Red Bluff #1

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 4. Waste Engine Oil 500 gallons per year, RCRA non-Exempt
- 5. Oily Waste Water 500 gallons per year, RCRA non-Exempt
- 6. Engine Filters 50 per year, RCRA non-Exempt
- 7. Spent Gas Treating Catalyst 18,804 lbs per year, RCRA Exempt

# 3. Red Bluff #2

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA non-Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA non-Exempt
- 5. Engine Filters 50 per year, RCRA non-Exempt

#### 4. Red Bluff #3

- 1. Inlet Separator 5 to 50 BPD of produced water and condensate, RCRA Exempt
- 2. Engine Cooling Water 100 to 200 gallons per year, RCRA Exempt
- 3. Waste Engine Oil 500 gallons per year, RCRA non-Exempt
- 4. Oily Waste Water 500 gallons per year, RCRA non-Exempt
- 5. Engine Filters 50 per year, RCRA non- Exempt

# **Disposal Plan for Waste Products:**

Oil waste and used engine oil are transported via Jim's Water Well Service to the Yates Pathfinder SWD, located in Section 21 T10S R27E, or the Yates Mitchell SWD, located in Section 23 T17S R25E, and placed in a separation tank, where oil and water are separated before disposal. Water is disposed of in the well and oil by-products are transferred to tanks and introduced back into the production stream. Both disposal wells are approved and permitted by OCD.

Engine Filters have been determined to be non-hazardous based on laboratory tests performed by Assaigai Analytical Laboratories, Inc., Albuquerque, NM. Care is taken in the maintenance of equipment to extend the life of the filters to help minimize waste materials. Used filters are handled in a method to insure that all free liquid is drained and returned to the used oil container, where it is stored prior to disposal as per paragraph 1. Waste Management-Southeast New Mexico, disposes of used filters at a properly permitted facility.

The spent catalyst is a RCRA exempt material. It is containerized in drums until it is transported, in accordance with DOT regulations, to an appropriately permitted recycling facility. Care is taken in the maintenance of equipment to extend the life of the catalyst and minimize waste.

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

February 24, 2000

# CERTIFIED MAIL RETURN RECEIPT NO. Z 142 564 956

Ms. Paula Haggith Agave Energy Company 105 South Fourth Street Artesia, New Mexico 88210

Re: Discharge Plans GW-50-1 (Bitter Lake), GW-50-5 (Red Bluff #1), GW-50-7 (Red Bluff #7) and

GW-50-8 (Red Bluff #8).

Dear Ms. Haggith:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of the Discharge Plan applications referenced in the above caption. After reviewing the applications, the NMOCD requires the following information in order to process the applications:

- 1. Please identify and classify all waste streams that are generated on site. Each waste stream shall be classified as to EPA RCRA exempt or non-exempt status. It appears that Agave inadvertently left off the gas stream filter waste that contains arsenic and how it is storing this waste on site. Please include in discharge plan.
- 2. The discharge plan did not indicate where or how the waste streams are being, or planned on being disposed of. Please include name of any off-site disposal company, location and any permit information.

All waste streams listed in Agave's discharge plans that is being disposed of at a site not approved by OCD, including any temporary off-site storage, must receive a case-by-case approval from the OCD. If Agave wishes to have these waste streams approved for the duration of the discharge plan and waive the case-by-case approval then Agave must modify the plans to indicate where the waste is being disposed of.

Please provide this information by March 31, 2000.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.

Environmental Bureau

cc: OCD Artesia Office

### 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, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-50) - Agave Energy Company., Paul Ragsdale, Vice President, 105 South Fourth Street, Artesia, New Mexico 88210, has submitted discharge plan renewal applications for Bitter Lake Station (GW50-1) and Red Bluff #1 Station (GW50-05); and new discharge plan applications for Red Bluff #2 (GW50-07) and Red Bluff #3 (GW50-08) all being field natural gas compressor stations with arsenic removal systems. The locations for the four (4) stations are:

- 1. Bitter Lake Station, NE/4 NW/4, Section 10, Township 9 South, Range 25 East, NMPM, Chaves County, New Mexico.
- 2. Red Bluff #1 Station, NW/4 SE/4, Section 2, Township 8 South, Range 22 East, NMPM, Chaves County, New Mexico.
- 3. Red Bluff #2 Station, SW/4,NE/4, Section 34, Township 7 South, Range 25 East, NMPM, Chaves County, New Mexico.
- 4. Red Bluff #3 Station, NW/4,SE/4, Section 10, Township 7 South, Range 25 East, NMPM, Chaves County, New Mexico.

A total estimated volume of 2500 gallons per year of produced water, lube oil and spent glycol is discharged to above ground tanks prior to off site disposal at an OCD approved disposal facility. Groundwater most likely to be affected by any accidental spill is at a depth greater than 160 feet with a total dissolved solids concentration ranging from 2400 to 8200 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. 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 there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of February, 2000.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY, Director

SEAL

# OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 (505) 827-7133 Fax: (505) 827-8177



# (PLEASE DELIVER THIS FAX)

To: PAULA Haggith - AGAVE ENERGY
From: 000-
Date: 2/24/00
Number of Pages (Includes Cover Sheet)
Message:

If you have any trouble receiving this, please call: (505) 827-7133



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury CABINET SECRETARY

Oil Conservation Div. Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

# **Memorandum of Meeting or Conversation**

TelephoneX Personal E-Mail
Time: 8:30am Date: 2/24/00
Originating Party: : Paula Haggith-Agave Energy
Other Parties: Wayne Price-OCD
Subject: Agave Discharge Plan sites GW-50 series
Discussion:
Paula Haggith notified OCD that NED station GW50-4 is still active. It runs about 5 days/mo. Haystack(GW50-2), Isler Station(GW50-3) and Salt Creek(GW50-6) are presently shut down and Agave does not have plans at this time to start them up.
Conclusions or Agreements:  OCD to send copy of Discharge Plan application for the Ned Station. Agave shall submit a Discharge plan application and \$50 filing fee for the Ned station. Agave shall submit discharge plan applications for Haystack(GW50-2), Isler Station(GW50-3) and Salt Creek(GW50-6) or submit notice to terminate discharge plan.
CC: Att: Paula Haggith and Mr. Paul Ragsdale fax 505-748-4576
9



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury CABINET SECRETARY

Oil Conservation Div. Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

# **Memorandum of Meeting or Conversation**

TelephoneX Personal E-Mail	
Time: 3:30 pm Date: February 23, 2	000
Originating Party:	Wayne Price-OCD
Other Parties:	Paula Haggith
Subject: Agave	Discharge Plan sites GW-50 series
Discussion:	
GW-50-7 (Red Bluff #	sh public notices for GW-50-1 (Bitter Lake), GW-50-5 (Red Bluff #1), 47) and GW-50-8 (Red Bluff #8). Please let us know the status of GW-50-3 (Isler Station), GW-50-4 (Ned Station), and GW-50-6 (Salt Creek).
Conclusions or Agree	1
Signed: //	r Jran
CC: Att: Mr. Paul	Ragsdale fax 505-748-4576

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4576

July 9,1999

Wayne Price N.M.O.C.D. 2040 S. Pacheco Street Santa Fe, NM 87505

Re:

Compressor Discharge Plans for GW-050, 050-1,2,3,4,5,6.

Dear Mr. Price,

I have received your letter of June 12th that states that Agave's existing plans will be extended until new plans are approved and the new plans need to be submitted by July 13th. Agave has made extensive changes to these compressor stations and we have been unable to adequately compile all of the supporting documentation necessary to submit these plans.

Therefore, we are requesting a sixty day extension until September 13, 1999 to submit these plans. This extension will enable us to do a more complete description of all of the changes that have been made.

We appreciate your cooperation in this matter and apologize for the inconvenience. If you need further assistance please call me at 505 748-4520.

Sincerely,

Paul Ragsdale

Vice President

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4576

SEP | 5 1999

September 7, 1999

Wayne Price N.M.O.C.D. 2040 S. Pacheco Street Santa Fe, NM 87505

Re:

Renewal of Compressor Discharge Plan for GW-050

Dear Mr. Price,

Agave Energy Company has submitted applications for renewal of the OCD Discharge Plans for the Red Bluff #1,2,3 and Bitter Lakes Compressor Stations. These are stations that were purchased by Agave Energy from Transwestern Pipeline in 1995.

Since the purchase, Agave has conducted a detailed engineering program to optimize the use of the compression. The net result is that Agave has shut several stations down and are in the process of moving the equipment to other locations. The stations that have been shut down are:

Red Bluff #4	Sec 27-T6S-R25E
Red Bluff #5	Sec 11-T6S-R25E
Red Bluff #6	Sec 24-T5S-R24E
Isler #1	Sec 15-T7S-R26E
Round Top	Sec 9-T7S-R26E

Therefore, we have not submitted a renewal application for these stations and will submit a closure plan once the equipment has been moved. Please let me know if there is additional information you need for these stations.

Sincerely yours,

Paul Ragsdale

Vice President

# ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. dated $\frac{9/67/99}{60}$
or cash received on in the amount of \$ 5000
or cash received on
from AGAVE ENERGY COMPANY
for BITTER LAKE COMP. ST GW-050-01  Parlity Masses & ALLIE DIZE DATE: 9/13/79
Submitted by: WAYNE PRIZE . Date: 9/13/79
Submitted to ASD by:
Kecaived in you ol.
Filing Fee New Facility Renewal
Modification Other
Organization Code 521.07 Applicable FY 2000
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment
AGAVE ENERGY COMPANY
105 South Fourth Street
Artesia, New Mexico 88210 505-748-4555

Nation

DATE VENDOR NO. 9/07/1999 287601 

ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT 2040 S. PACHECO

SANTA FE NM 87505

AGAVE ENERGY COMPANY

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

SEP - 9 1999

Fax (505) 748-4576

September 7, 1999

Wayne Price N.M.O.C.D. 2040 S. Pacheco Street Santa Fe, NM 87505

Re: Renewal of Compressor Discharge Plan for GW-050

Dear Mr. Price,

Enclosed is the application for renewal of the referenced discharge plan and a check for \$50.00. Please let me know if you need additional information.

Sincerely yours,

Paul Ragsdale

Vice President

AGAVE ENERGY COMPANY 'n. 105 South Fourth Street Artesia, New Mexico 8821 INVOICE CODE INVOICE AMOUNT DISCOUNT INVOICE NUMBER **NET AMOUNT PAYABLE** OCO REREWAL DITTER 08/99 50.00 .00 50.00 TUTAL FOR CHECK 50.00 EW-050-01 CODES THE ATTACHED CHECK IS IN FULL SETTLEMENT OF INVOICES LISTED ABOVE.



P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First

811 S. First Artesia, NM 88210 <u>District III</u> - (505) 334-6178 1000 Rio Brazos Road

Aztec. NM 87410 <u>District IV</u> - (505) 827-7131 Energ

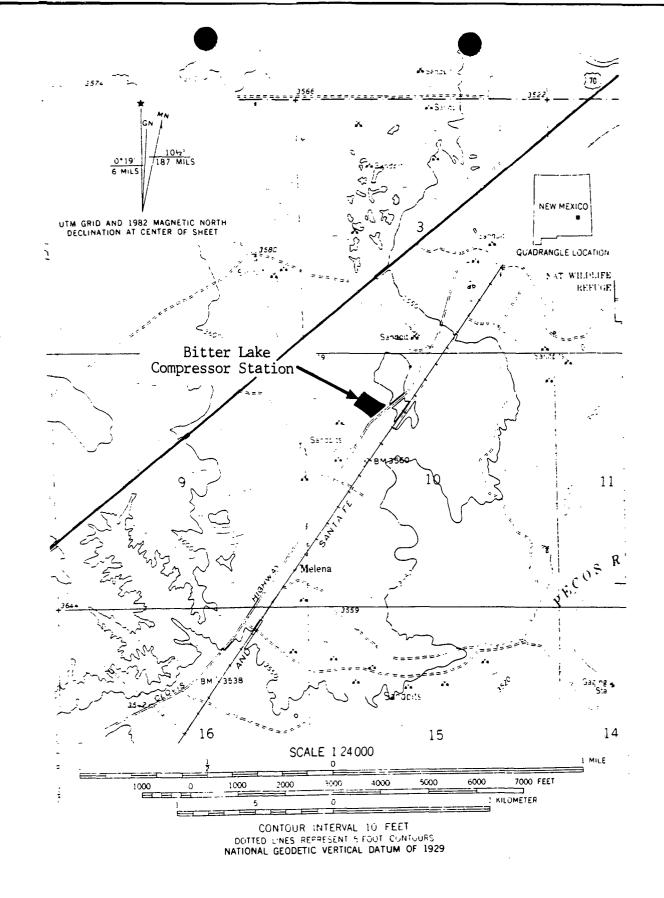
# rerals and Natural Resources Oil Conservation Division

.2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 nent Revised 12/1/95

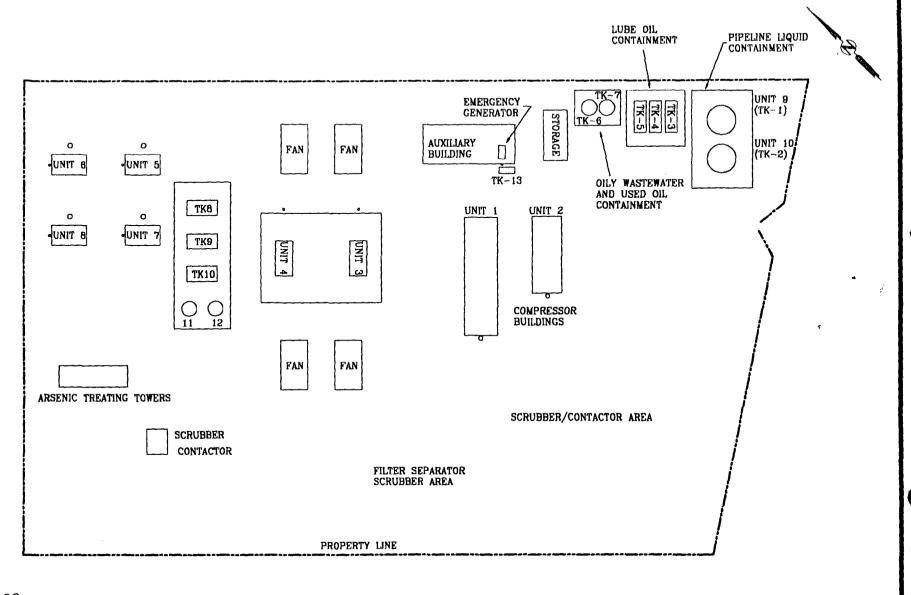
Submit Original Plus 1 Copies to Santa Fe 1 Copy to appropriate District Office

# DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES. GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS (Refer to the OCD Guidelines for assistance in completing the application)

	New ' X Renewal Modification									
1. '	Type:Natural Gas Compressor Station- Bitter Lakes									
2.	Operator: Agave Energy Company									
	Address:105 S. 4th St., Artesia, NM 88210									
	Contact Person: Paul Ragsdale Phone: 505 748-4520									
3.	Location: NE /4 NW /4 Section 10 Township 9S Range 25E Submit large scale topographic map showing exact location.									
4.	Attach the name, telephone number and address of the landowner of the facility site.									
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.									
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.									
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.									
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.									
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.									
11.	Attach a contingency plan for reporting and clean-up of spills or releases.									
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.									
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.									
14.	CERTIFICATION									
	I herby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.									
	NAME: Paul Ragsdale Title: Vice President									
	NAME: Paul Ragsdale Title: Vice President  Signature: Date: 9-7-99									



Bitter Lake Compressor Station Plant Location Adapted from the Melena, N. Mex. U.S.G.S. 7.5 Quad.



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LE:

TRANSWESTERN PIPELINE COMPANY BITTER LAKE COMPRESSOR STATION PLOT PLAN



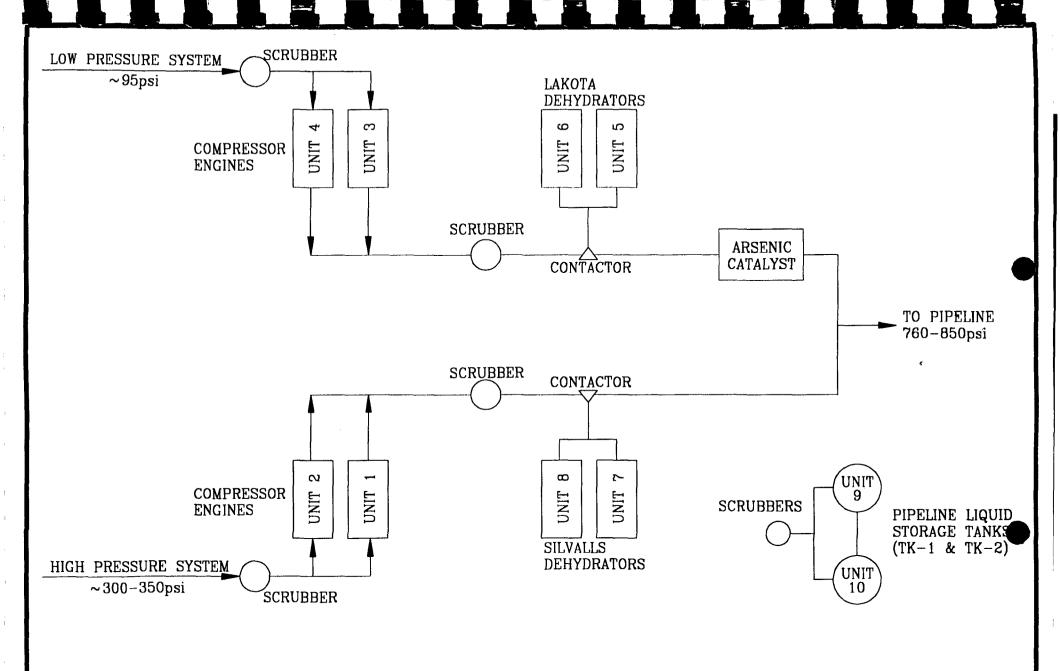
TEAM ENVIRONMENTAL SERVICES, INC.

9502 - 1

SOUTHWESTERN CONSULTING & ENGINEERING

DATE:

DWG. NUMBER: 2/1/95



TITLE:

TRANSWESTERN PIPELINE COMPANY BITTER LAKE COMPRESSOR STATION PROCESS FLOW DIAGRAM



TEAM ENVIRONMENTAL SERVICES, INC.

SOUTHWESTERN CONSULTING & ENGINEERING

DATE:

DWG. NUMBER:

1/26/95

9501-19

# DISCHARGE PLAN RENEWAL GW -50 -

#### Agave Energy Company

#### Bitter Lakes Compressor Station

1. Type:

Natural Gas Compressor Station

2. Operator:

Agave Energy Company

Address:

105 S. Fourth

Artesia, NM 88210

Contact:

Paul Ragsdale

Phone: 505-748-4520

3. Location:

NE/4 NW/4 Sec 10-T9S-R25E

4. Landowner:

Agave Energy Company

Phone

505-748-4520

Address

105 S. Fourth

Artesia, NM 88210

5. Description of facility: The station is a natural gas compressor station gathering field gas from producing gas wells in the South Pecos Slope Abo field and redelivering gas to Transwestern Pipeline. There are three reciprocating compressors at the station operating in two separate systems. The station has one inlet filter separator, an inlet scrubber, a pig receiver, pipeline liquid tanks, glycol dehydration units to remove water from the gas, gas treating units and multiple meters.

See Attachment #1 for site facility diagram.

- 6. Description of materials stored or used at the facility:
  Engine Oil, Degreaser, Soap, Antifreeze and multiple types of new filters. There are also produced pipeline liquids, oily waste water, used lube oils and used antifreeze. There is a gas treating unit that contains metal oxides on alumina core.
- 7. Description of present effluent and waste solids including average quality and daily volumes.

Inlet separators: 5 to 50 BPD of produced water and condensate.

Engine Cooling Water: 100 to 200 gallons per year

Waste Engine Oils: 500 gallons per year Oily Waste Water: 500 gallons per year

Engine filters: 50 per year

8. Describe current liquid and solid waste collection/treatment/disposal procedures. All liquid waste goes to above ground storage tanks and is removed by certified waste haulers and either disposed in Class II disposals or recycled. Solid wastes are collected and stored in above ground dumpsters and hauled to approved facilities.

All waste facilities are enclosed in concrete containments.

- 9. NO proposed modifications are planned at this time to the current waste collection/treatment/disposal procedures.
- 10. Routine inspection and maintenance plan to ensure permit compliance:

  This is a station that has an operator/mechanic assigned to it and is visited on a daily basis. The operator visually inspects the facilities as a matter of routine maintenance.
- 11. Attach a contingency plan for reporting and cleanup of spills or releases. See Attachment #2 for Contingency Plan
- 12. Geologic/Hydrologic Information:
  The facility is located northeast of Roswell near U.S. Highway 70. The station is located in a sandy-loamy soil within a mile of the Pecos River. The area is primarily rangeland consisting of prairie grass and mesquite and is also located closely to a sand and gravel pit..

  Non-potable surface waters are present at depths less than 30 feet and potable Artesian water is present at depths of 100 feet or more.
- 13. Facility Closure Plan:
  There are no plans at this time to close this facility.

#### Attachment #2

# Plan for Reporting and Clean-Up of Spills or Releases

- 1. S.O.P. for spill is to immediately call a vacuum truck.
- 2. Notify OCD pursuant to OCD Rule 116 (Appendix B) and any other federal, state or local agency to be notified.
- 3. Contain spill as necessary
- 4. Apply absorbents and/or bio-remediation materials.
- 5. Send follow-up reports to the agencies as required.

# AGAVE ENERGY COMPANY

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

Fax (505) 748-4576

September 7, 1999

Wayne Price N.M.O.C.D. 2040 S. Pacheco Street Santa Fe, NM 87505

Re:

Renewal of Compressor Discharge Plan for GW-050

Dear Mr. Price,

Enclosed is the application for renewal of the referenced discharge plan and a check for \$50.00. Please let me know if you need additional information.

Sincerely yours,

Paul Ragsdale

Vice President

P. O. Box 1980

Hobbs, NM 88241-1980 <u>District II</u> - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178

1000 Rio Brazos Road Aztec. NM 87410

District IV - (505) 827-7131

# Energy Perals and Natural Resources Deartment Oil Conservation Division

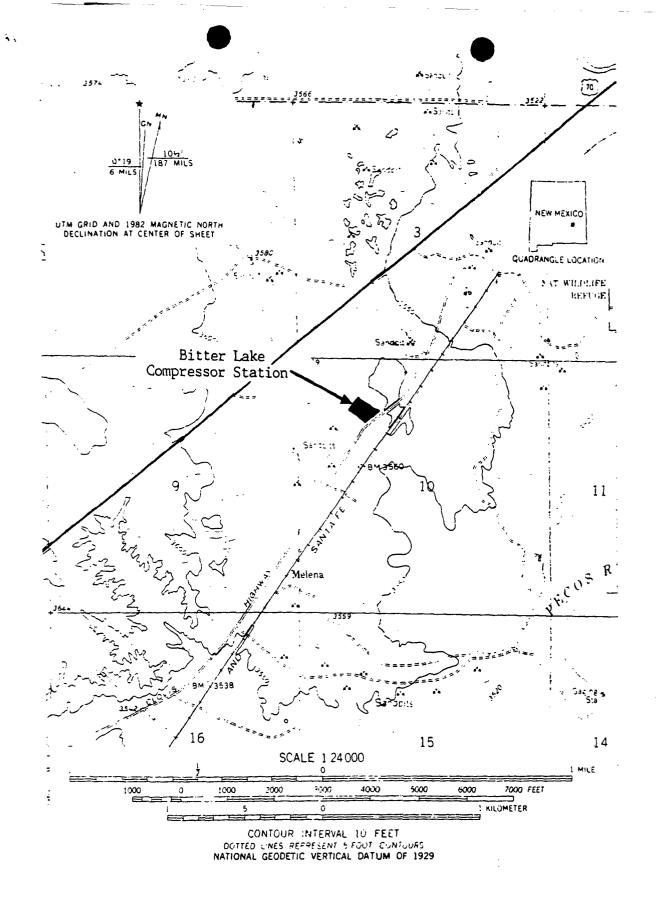
.2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Revised 12/1/95

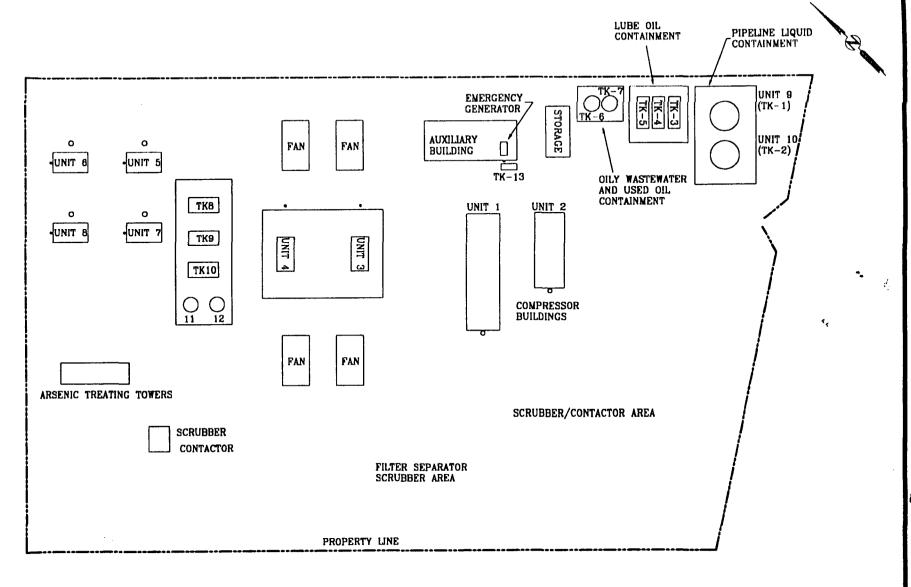
Submit Original Plus 1 Copies to Santa Fe 1 Copy to appropriate District Office

#### DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES. GAS PLANTS. REFINERIES. COMPRESSOR. AND CRUDE OIL PUMP STATIONS (Refer to the OCD Guidelines for assistance in completing the application)

	New ' Renewal Modification									
1. '	Type:Natural Gas Compressor Station- Bitter Lakes									
2.	Operator:Agave Energy Company									
	Address:105 S. 4th St., Artesia, NM 88210									
	Contact Person: Paul Ragsdale Phone: 505 748-4520									
3.	Contact Person: Paul Ragsdale Phone: 505 748-4520  Location: NE /4 NW /4 Section 10 Township 9S Range 25E  Submit large scale topographic map showing exact location.									
4.	Attach the name, telephone number and address of the landowner of the facility site.									
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.									
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.									
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.									
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.									
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.									
11.	Attach a contingency plan for reporting and clean-up of spills or releases.									
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.									
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.									
14.	CERTIFICATION									
	I herby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.									
	NAME: Paul Ragsdale Title: Vice President									
	Signature: Jan Raydule Date: 9-7-99									
	$\mathcal{J}$									



Bitter Lake Compressor Station Plant Location Adapted from the Melena, N. Mex. U.S.G.S. 7.5 Quad.



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TLE:

TRANSWESTERN PIPELINE COMPANY BITTER LAKE COMPRESSOR STATION PLOT PLAN



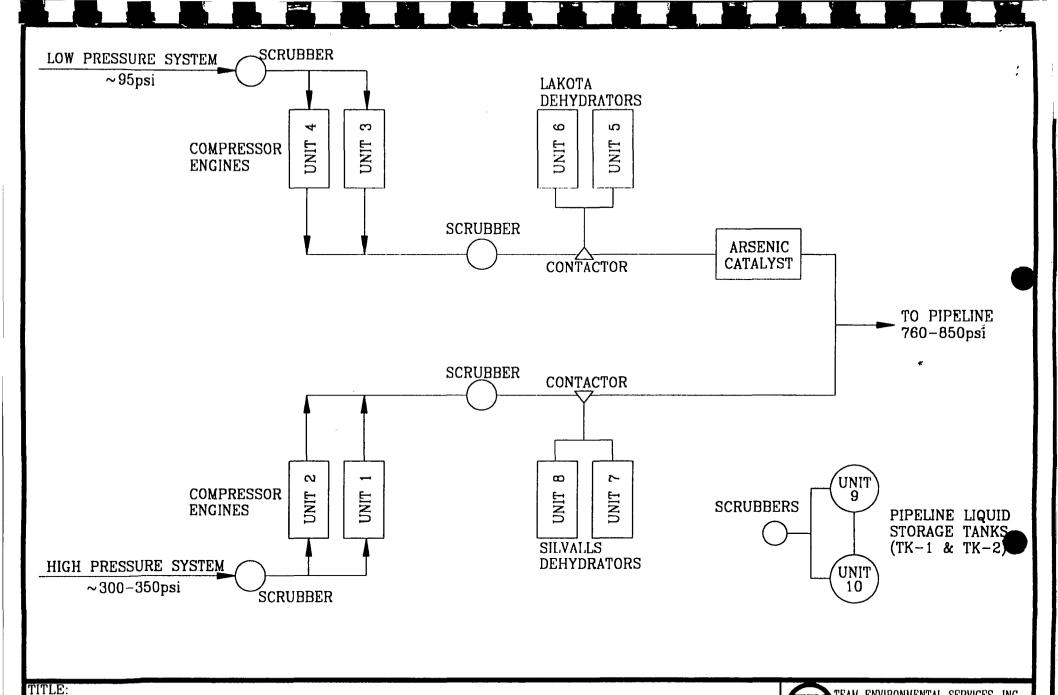
TEAM ENVIRONMENTAL SERVICES, INC.

SOUTHWESTERN CONSULTING & ENGINEERING

DATE;

2/1/95

DWG. NUMBER: 9502-1



TRANSWESTERN PIPELINE COMPANY

BITTER LAKE COMPRESSOR STATION PROCESS FLOW DIAGRAM



TEAM ENVIRONMENTAL SERVICES, INC.

SOUTHWESTERN CONSULTING & ENGINEERING

DATE:

DWG. NUMBER:

1/26/95

9501 - 19

## DISCHARGE PLAN RENEWAL GW -50 -8

#### Agave Energy Company

#### Bitter Lakes Compressor Station

1. Type:

Natural Gas Compressor Station

2. Operator:

Agave Energy Company

Address:

105 S. Fourth

Artesia, NM 88210

Contact:

Paul Ragsdale

Phone: 505-748-4520

3. Location:

NE/4 NW/4 Sec 10-T9S-R25E

4. Landowner:

Agave Energy Company

Phone

505-748-4520

Address

105 S. Fourth

Artesia, NM 88210

5. Description of facility: The station is a natural gas compressor station gathering field gas from producing gas wells in the South Pecos Slope Abo field and redelivering gas to Transwestern Pipeline. There are three reciprocating compressors at the station operating in two separate systems. The station has one inlet filter separator, an inlet scrubber, a pig receiver, pipeline liquid tanks, glycol dehydration units to remove water from the gas, gas treating units and multiple meters.

See Attachment #1 for site facility diagram.

- 6. Description of materials stored or used at the facility:
  Engine Oil, Degreaser, Soap, Antifreeze and multiple types of new filters. There are also produced pipeline liquids, oily waste water, used lube oils and used antifreeze. There is a gas treating unit that contains metal oxides on alumina core.
- 7. Description of present effluent and waste solids including average quality and daily volumes.

Inlet separators: 5 to 50 BPD of produced water and condensate.

Engine Cooling Water: 100 to 200 gallons per year

Waste Engine Oils:

500 gallons per year

Oily Waste Water: 500 gallons per year

Engine filters: 50 per year

8. Describe current liquid and solid waste collection/treatment/disposal procedures. All liquid waste goes to above ground storage tanks and is removed by certified waste haulers and either disposed in Class II disposals or recycled. Solid wastes are collected and stored in above ground dumpsters and hauled to approved facilities.
All waste facilities are enclosed in concrete containments.

- 9. NO proposed modifications are planned at this time to the current waste collection/treatment/disposal procedures.
- 10. Routine inspection and maintenance plan to ensure permit compliance:

  This is a station that has an operator/mechanic assigned to it and is visited on a daily basis. The operator visually inspects the facilities as a matter of routine maintenance.
- 11. Attach a contingency plan for reporting and cleanup of spills or releases. See Attachment #2 for Contingency Plan
- 12. Geologic/Hydrologic Information:
  The facility is located northeast of Roswell near U.S. Highway 70. The station is located in a sandy-loamy soil within a mile of the Pecos River. The area is primarily rangeland consisting of prairie grass and mesquite and is also located closely to a sand and gravel pit..

  Non-potable surface waters are present at depths less than 30 feet and potable Artesian water is present at depths of 100 feet or more.
- 13. Facility Closure Plan:
  There are no plans at this time to close this facility.

#### Attachment #2

## Plan for Reporting and Clean-Up of Spills or Releases

- 1. S.O.P. for spill is to immediately call a vacuum truck.
- 2. Notify OCD pursuant to OCD Rule 116 (Appendix B) and any other federal, state or local agency to be notified.
- 3. Contain spill as necessary
- 4. Apply absorbents and/or bio-remediation materials.
- 5. Send follow-up reports to the agencies as required.

OIL CONSERVATION DIVISION 2040 South Pachece Street Santa Fe, New Mexico 67605 (505) 627-7131

June 12, 1999

# CERTIFIED MAIL RETURN RECEIPT NO. Z 357 870 136

Mr. Paul Ragsdale Agava Energy Company 105 South Fourth Street Artesia, New Mexico 88210

Re: Compressor Discharge Plans for GW-050, 050-1,2,3,4,5,6.

Dear Mr. Ragsdale:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Agava Energy Company's (AEC) letter dated February 9, 1999 requesting discharge plans be extended until new plans are approved. Pursuant to New Mexico Water Quality (WQCC) Regulation 3106.F AEC's request will be honored if AEC submits discharge plan applications with all supporting documentation and the \$50.00 filing fees for each plan by July 13, 1999.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours

Wayne Price-Pet. Engr. Spec.

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**Environmental Bureau** 

cc: OCD Artesia District office

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-4555

DIL CONSERVATION DIVIE

Fax (505) 748-4576

February 9, 1999

Wayne Price N.M.O.C.D. 2040 S. Pacheco Santa Fe, NM 87505

Re:

Compressor Discharge Plans

Dear Sir:

Agave Energy Company's Compressor Discharge Plans, GW-050, GW-050-1,GW-050-2,GW-050-3,GW-050-4,GW-050-5,GW-050-6 expire June 13,1999. Agave requests that these discharge plans be extended until new plans are approved.

We appreciate the O.C.D.'s cooperation in this matter. Please call me at 505-748-4520 for further information.

Sincerely yours,

Paul Ragsdale

Vice President

105 South Fourth Street

Artesia, New Mexico 88210

(505) 748-1471, Fax (505) 748-4576

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February 13, 1996

**BECEIVED** 

Roger Anderson
Oil Conservation Division
2040 South Pacheco St.
Santa Fe, NM 87504

FEB 1 6 1996

En /ironmental Bureau Oil Conservation Division

Re:

OCD Discharge Plans

Dear Roger:

Agave Energy has purchased certain gathering system assets in Chaves and Eddy Counties, The following facilities are covered under an approved OCD Discharge Plan:

Yates Plant in Eddy County
Red Bluff Gas Treating Systems in Chaves County

Kagidali

Operations will continue as before except that your agency should contact me for information at:

Paul Ragsdale Agave Energy Company 105 South Fourth Street Artesia, NM 88210 505-748-4520

Sincerely,

Paul Ragsdale Vice President

Enclosure

# Transwestern Pipeline Company

**TECHNICAL OPERATIONS** 

January 25, 1996 6381 North Main • Roswell, New Mexico 88201

Mr. Paul Ragsdale Agave Energy Company 105 S. 4th Street Artesia, New Mexico 88210



FEB 1 6 1996

Environmental Sureau
Oil Conservation Division

Re:

OCD Discharge Plan Change in Ownership Notification

Dear Paul:

With the purchase of gathering assets from Transwestern Pipeline Company by Agave, certain facilities within that purchase were permitted by the Oil Conservation Division (OCD) under an approved discharge plan. The facilities are as follows:

Yates Plant
Enron 6- (Arsenic Treating facilities in the Red Bluff system)

Under the current regulatory scheme, ownership transfer of any property under an approved discharge plan must notify the OCD agency in Santa Fe at the following address, and apprise them of the new ownership status:

Oil Conservation Division 2040 South Pacheco St. Santa Fe, New Mexico 87504

Atten: Roger Anderson

Also, please be advised that disposal activities involving any non exempt waste, requires written approval by the OCD prior to removal of the waste from the facility.

If I can be of any further assistance, contact our Roswell office of Operations and Commercial Support at (505) 625-8022.

Sincerely,

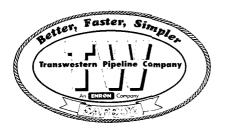
Larry Campbell

**Division Environmental Specialist** 

XC:

Lou Soldano

OCD Office, Santa Fe, New Mexico



## Transwestern Pipeline Company

37 DE - 111 8 52 TECHNICAL OPERATIONS P. O. Box 1717 • Roswell, New Mexico 88202-1717

December 16, 1994

Mr. Roger Anderson Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Re: Disposal of Spent catalyst, Bitterlakes Compressor Station

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitterlakes Compressor Station. Specifically, this request addresses removal and disposal of approximately 50-55 gallon drums of spent arsenic catalyst generated from the above referenced facility. The date of this removal activity is December 19 and 20, 1994. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact our Roswell Technical Operations at 625-8022.

Sincerely,

Larry Campbell

**Division Environmental Specialist** 

xc:

Rich Jolly Jim Kapka

file

Oil Conservation Division

District II, 324 W. Main St., P.O. Drawer DD Artesia, New Mexico, 88210

#### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

May 9, 1994

POST OFFICE BOX 2088 STATE LANO OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Coverage Prov

## <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P-176-012-209</u>

Mr. Larry Campbell Transwestern Pipeline Company P.O. Box 1717 Roswell, New Mexico 88202-1717

Re:

Disposal Request

Bitter Lakes Compressor Station Chaves County, New Mexico

## Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated May 6, 1994, for approval to remove and dispose of 40 drums of spent arsenic catalyst and 3 drums of solid waste consisting of Tyvex suits and protective clothing generated at the above referenced facility. Based upon the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or groundwater or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5824.

Sincerely,

Chris E. Eustice

**Environmental Geologist** 

xc: OCD - Artesia Office

PS Form <b>3800</b> , June 1991										
Postmark or Date	TOTAL Postage & Fees	Return Receipt Showing to Whom, Date, and Addressee's Address	Return Receipt Showing to Whom & Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	P.O., State and ZIP Code	Street and No.	Sent to
	\$						\$			

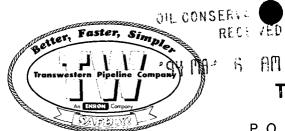


# State of New Mexico ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT Santa Fe, New Mexico 87505

STATE OF NEW MEXICO OR CONSERVATION DIVISION

# MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal	Time 230 (	m	Date	5-9-94				
Originating Party	<u></u>	Other Parties						
Chois Eustice		Larry Campbell (LC)						
		Tro	inswes	tern Pipeline				
Disposal request	letter do	ited	5-6	-94				
Subject Disposed request for Bitter Lakes	. Compresse	n Sta	tion					
	•		,					
Discussion Spent arsenic	will be	dispose	ed the	usual way, June 91)				
REQUESTED TO DISPOSE OF  -3 drums of solid waste consisting of tyrex suits and								
-3 drums of soli	d waste c	ousist	ins of	tyrex suits and				
protective dothin	15			<i>U</i>				
10.4	1 0	( c	. 1	11.4.0.7				
- My question to	LC was	- <u>u</u>	<u>Ihat</u>	will you do wy				
My question to LC was "what will you do w/ the solid waste (clothing)								
LARRY: IT GOES TO A HAZ WASTE LAND FILL								
Conclusions or Agreements								
copy record of conversation to the file								
15								
<u>Distribution</u>	Sig	gned (		2-4-				
bile	) <u></u>							



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DIVISION

## Transwestern Pipeline Company

TECHNICAL OPERATIONS P. O. Box 1717 • Roswell, New Mexico 88202-1717

May 6, 1994

Mr. Roger Anderson Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitter Lakes Compressor Station.

Specifically, this request addresses removal and disposal of approximately 42 drums of spent arsenic catalyst and 3 drums of solid waste consisting of tyvex suits and protective clothing at the above referenced facility. The date of this proposed activity was May 3, 1994. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact me at 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

Rich Jolly xc: Jim Kapka

Quentin Rhodes, Giddings, Texas

file





## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LANO OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

January 14, 1994

# CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-297

Mr. Larry Campbell Transwestern Pipeline Company P.O. Box 1717 Roswell, New Mexico 88202-1717

Re:

Disposal Request

Bitter Lakes Compressor Station Chaves County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated January 3, 1994, for approval to remove and dispose of 40 drums of spent arsenic catalyst generated at the above referenced facility. Based upon the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or groundwater or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5824.

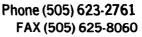
Sincerely,

Chris E. Eustice

Environmental Geologist

2,5 min

xc: OCD - Artesia Office





Transwestern Pipeline Company

OIL CONSERVE FUN DIVISION

RECLIVED

**TECHNICAL OPERATIONS** P. O. Box 1717 • Roswell, New Mexico 88202-1717 6 11 8 37

January 3, 1994

Mr. Roger Anderson Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitter Lakes Compressor Station.

Specifically, this request addresses removal and disposal of approximately 40 drums of spent arsenic catalyst generated from the above referenced facility. The date of this proposed activity is December 7, 1993. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact me at 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

XC: Rich Jolly

Jim Kapka

file

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#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

June 7, 1993

POST OFFICE BOX 2088 STATE LAND DFFICE BUILDING SANTA FE, NEW MEXICO B7504 (505) 827-5800

# CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-206

Mr. Larry Campbell Transwestern Pipeline Company P.O. Box 1717 Roswell, New Mexico 88202-1717

Re:

Disposal Request

Bitterlake Compressor Station Chaves County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated June 7, 1993, for approval to remove and dispose of 6 drums of spent arsenic catalyst generated at the above referenced facility. Based upon the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or groundwater or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5812.

Sincerely,
Roser C. Anderson by KMB

Roger C. Anderson

Environmental Bureau Chief

xc: OCD - Artesia Office

Phone (505) 623-2761 FAX (505) 625-8060

'93 MA 27 AM 9

# Transwestern Pipeline Company

TECHNICAL OPERATIONS

P. O. Box 1717 • Roswell, New Mexico 88202-1717

May 20, 1993

Mr. Roger Anderson Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitterlake Compressor Station.

Specifically, this request addresses removal and disposal of approximately 6 drums of spent arsenic catalyst generated from the above referenced facility. The date of this proposed activity is May 28, 1993. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact me at 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

Rich Jolly xc:

Rusty Nasta

Greg McIlwain

file

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

May 20, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

# CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-201

Mr. Larry Campbell Transwestern Pipeline Company P.O. Box 1717 Roswell, New Mexico 88202-1717

Re:

Disposal Request

Bitterlake Compressor Station Chaves County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated May 17, 1993, for approval to remove and dispose of 17 drums of spent arsenic catalyst generated at the above referenced facility. Based upon the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or groundwater or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5812.

molein

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD - Artesia Office



# Transwestern Pipeline Company 1997 19 8 46

TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

May 17, 1993

Mr. Roger Anderson Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitter Lakes Compressor Station.

Specifically, this request addresses removal and disposal of approximately 17 drums of spent arsenic catalyst generated from the above referenced facility. The date of this proposed activity is May 20, 1993. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you may require any additional information, please do not hesitate to contact me at 625-8022.

Sincerely;

Larry Campbell

Division Environmental Specialist

xc: Bill Nolan

Rich Jolly Rusty Nasta Greg McIlwain

file

#### STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

May 11, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

# CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-200

Mr. Larry Campbell Transwestern Pipeline Company P.O. Box 1717 Roswell, New Mexico 88202-1717

Re:

Disposal Request

Bitterlake Compressor Station Chaves County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated May 3, 1993, for approval to remove and dispose of 28 drums of spent arsenic catalyst generated at the above referenced facility. Based upon the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or groundwater or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5812.

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD - Artesia Office



## **Transwestern Pipeline Company**

TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

May 3, 1993

Mr. Roger Anderson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitterlake Compressor Station.

Specifically, this request addresses removal and disposal of approximately 28 drums of spent arsenic catalyst generated from the above referenced facility. The date of this proposed activity is April 28, 1993. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact me at 625-8022.

Sincerely,

Larry Campbell

Division Environmental Specialist

xc: Rich Jolly Rusty Nasta Greq McIlwain



# Transwestern Pipeline Company TECHNICAL OPERATIONS

P. O. Box 1717 • Roswell, New Mexico 88202-1717

June 25, 1992

Mr. Roger Anderson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company request approval from your agency to remove oil and gas wastes generated from the processing of natural gas at the Bitterlake Compressor Station.

Specifically, this request addresses removal and disposal of approximately 40 drums of spent arsenic catalyst generated from the above referenced facility. The date of this proposed activity is June 30, 1992. Pending contractor notification, the spent catalyst will be properly disposed of in accordance with all state and federal regulations.

If you should require any additional information, contact me at 625-8022.

Sincerely,

Larry Campbell

Compliance Environmentalist

xc: Bill Nolan
Rich Jolly
Rusty Nasta
Doc Alpers

#### STATE OF NEW MEXICO



## **ENERGY. MINERALS AND NATURAL RESOURCES DEPARTMENT**

**GIL CONSERVATION DIVISION** 

BRUCE KING GOVERNOR July 27, 1992

POST OFFICE BOX 2088 STATE LAND DFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

# CERTIFIED MAIL RETURN RECEIPT NO P-667-242-124

Mr. Larry Campbell Transwestern Pipeline Company P. O. Box 1717 Roswell, New Mexico 88202-1717

Re: Disposal Request

Bitter Lake Compressor Station

Chaves County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated June 25, 1992, to remove and dispose of approximately 40 drums of spent arsenic catalyst generated at the above referenced facility. Based on the information provided, your disposal request is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment actionable under other laws and/or regulations.

If you have any questions, please do not hesitate to call me at (505) 827-5812.

Sincerely,

Roger C. Anderson

Environmental Engineer

xc: Mike Williams - OCD Artesia Office Chris Eustice - OCD Hobbs Office

### Bitter Lake

1. There are 3 compressor engines at this location.

The station has a super drip, one inlet scrubber, two filters, nine scrubbers on the gas stream, one dehydration contactor, and five pig launchers and receivers. Parker Gas Companies, Inc. has two catalyst sorbent towers.

The fuel system consists of four scrubbers and three filters. All scrubbers, filters, contactor, and drips have automatic and manual dumps and discharge to the station condensate tanks. Liquid from the pig launchers and receivers goes also into the station condensate tanks. Liquid from the buildings and washdown water go to a sump and are pumped into the condensate tanks, along with waste oil, anti-freeze, and glycol.

- 2. The storage tanks at this location are as follows:
  - 2 ea. 436 bbl. liquid storage tank
  - 1 ea. 1500 gal. oil storage tank (Pacemaker 1100)
  - 1 ea. 7000 gal. oil storage tank (Pacemaker 1100)
  - 1 ea. 1500 gal. anti-freeze storage tank (Norkool SL2400)
  - 1 ea. 3000 gal. anti-freeze storage tank (Norkool SI2400)
  - 1 ea. 1500 gal. T.E.G. storage tank
  - l ea. 1000 gal. fresh water storage tank
  - 2 ea. 5' x 28' vessels with zinc oxide, copper oxide and aluminum oxide plus carbon catalyst absorbent.

There are no underground storage tanks at this location and no leak detection system is installed.

- 3. The following chemicals are used at this location:
  - a. Citgo Pacemaker 1100
  - b. Exxon hydraulic oil
  - c. Stoddard solvent
  - d. Alpha Blue Tiger soap
  - e. Train degreaser Oil Off
  - f. Norkool SL2400 anti-freeze
  - g. Penwalt-Spotleak 1009 Odorant
  - h. Catalyst zinc oxide, copper oxide, and aluminum oxide plus carbon
  - i. T. E. G.
- 4. All aboveground tanks are bermed.

### Bitter Lake (continued)

- 5. All liquid waste goes to aboveground storage tanks and are removed by Enron Oil Trading and Transportation Company. The station is visited frequently and any leakage would be detected by visual inspection and cleaned up as soon as possible. The buildings are not bermed.
- 6. Filter media, trash, and filter elements go to a public land fill for disposal. Sludge is pumped out and disposed of by a hot oil service company.
- 7. The drum storage has a pad but no containment structure. However, several measures are used to prevent spills. The dispensing valves are kept plugged when not in use. Employees are cautioned to use extra care when drawing out liquids. Should a spill occur, it will be cleaned up immediately and the contaminated soil placed in a container for proper disposal.



APR 2 1 1989

OIL CONSERVATION DIV.

SANTA FE

BITTER LAKES

MATERIAL SAFETY DATA SHEET

METHANOL



Special

Firefighting **Procedures** 

LYONDELL PETROCHEMICAL COMPANY DIVISION OF ATLANTIC RICHFIELD COMPANY 1221 MCKINNEY AVENUE, SUITE 1600 P.O. BOX 3646 HOUSTON, TEXAS 77253-3646

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers, and users of this product This product is considered a hazardous substance under the OSHA Hazard Communication Rule.

				· · · · · · · · · · · · · · · · · · ·	
L		Genera	i		
Trade Name	METHANOL			Telephone Numbers EMERGENCY	
Other Names	METHYL ALCOHOL, WOOD	ALCOHOL		800/424-9300 CHEMTREC 215/353-8300 C.E.R.S. CUSTOMER SERVICE 713/652-7200 INFO ONLY	
Chemical Family	ALIPHATIC ALCOHOL		DOT Hazardous Materials Proper Shipping Name METHYL ALCOHOL		
Generic Name	N/P		DOT Hazard Cla FLAMMABLE L		
CAS No.	SEE SECTION IX	Company ID No. E000142300		UN/NA ID No. UN 1230	
IL D	ANGER	Summary of E	lazards	SEE SUPPLEMENT BEGINNING ON PAGE 7	
Pl	HYSICAL HAZARDS:	EXTREMELY FLAMABLE- FLAME			
A	CUTE HEALTH EFFECTS: (SHORT-TERM)	MODERATE INHALATION : MODERATE EYE IRRITAN MODERATE SKIN ABSORP MODERATE INGESTION H SLIGHT SKIN IRRITANT	T Tion Hazard Azard. See Supe		
. <b>a</b>	HRONIC HEALTH EFFECTS: (LONG-TERM)	SWALLOWING AS LITTLE METHANOL HAS BEEN RE SERIOUS IRREVERSIBLE SEE SUPPLEMENT	AS ONE TO FOUF PORTED TO CAUSE INJURY SUCH AS	DEATH OR	
111.		Fire and Exp	losion		
Flash Point (N AP 50	fethod) o' F (CC )	Autoignition Temperature AP 725° F		lemmable Limits (% Vol. in Air) t Normal Aumospheric Temperature and Pressure ower AP 6 Upper AP 36	
Fire and Explosion Hazards	RELEASES FLAMMABLE VAPO WITH AIR AND EXPOSED TO CONFINED. MIXTURES WITH STILL FLAMMABLE (FLASH) CERTAIN METALS, INCLUDI	) IGNITION SOURCE, CAN L WATER AND AS LITTLE / PT./<100/F). UNDER SOM	BURN IN OPEN O AS 21% (BY VOL) ME CIRCUMSTANCE	R EXPLODE IF METHANDL ARE S. MAY CORRODE	
Extinguishing	DRY CHEMICAL CO2 WATERSPRAY FOAM FOR ALCOHOLS	2-12-33 FOG			
Pind	A METHANOL FIRE MAY NOT W/O PROPER PROTECTION.	BE VISIBLE TO THE NAM SEE SECTION X - DECOMP	KED EYE. DO NOT POSITION PRODUC	ENTER FIRE AREA TS POSSIBLE.	

FIGHT FIRE FROM SAFE DISTANCE/PROTECTED LOCATION. HEAT MAY BUILD PRESSURE/
RUPTURE CLOSED CONTAINERS, SPREADING FIRE, INCREASING RISK OF BURNS/
INJURIES. APPLY AQUEDUS EXTINGUISHING MEDIA CAREFULLY TO AVOID FROTHING
AND LIMIT EXPOSURE OF NEARBY EQUIPMENT. NOTIFY AUTHORITIES IS LIQUID ENTERS

IV.	ŀ	lealth Hazar	ds		956 Beginin	SUPPLEMENT ING: ON: PAGE 7	
Summary of Acute Hazards	MODERATE HEALTH HAZARD - SEE B	IELOW FOR ROUTE-	SPECIFIC	C DETAILS			
ROUTE OF EX	POSURE SI	IGNS AND SYMPTO	MS			Primary Routels	
Inhalation	OVEREXPOSURE MAY CAUSE COUGHIN ICATION AND COLLAPSE.	IG, SHORTNESS OF	BREATH	. DIZZINE	SS, INTOX-	X	
Eye Contact	MAY CAUSE MODERATE IRRITATION, REDNESS OR SWELLING.	INCLUDING BURN	ING SENS	SATION, T	EARING,	X	
Skin Absorption	EXPOSURE TO THIS MATERIAL CAN HEALTH HAZARD.	RESULT IN ABSOR	PTION TH	HROUGH SK	IN CAUSING	X	
Skin Irritation	MAY PRODUCE SKIN IRRITATION.						
ingestion	SEE SUPPLEMENT - SOURCE OF THE					X	
Summary of Chronic Hazards and Special Health Effects							
Ψ.	Protective Equipment a	nd Other Co	ntral	Measu	95		
Respiratory	DO NOT USE AIR-PURIFYING RESPIS OR SELF-CONTAINED BREATHING APP ARE SATISFACTORY.	RATOR. ONLY NIOS PARATUS OPERATED	H/MSHA IN POS	APPROVED	SUPPLIED AIR SSURE MODE		
Eye	EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD MUST BE WORN WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING LIQUID, AIRBORNE PARTICLES, OR VAPOR. CONTACT LENSES SHOULD NOT BE WORN.						
Skin .	WHEN SKIN CONTACT IS POSSIBLE. SLEEVES. BOOTS, HEAD AND FACE F MUST BE CLEANED THOROUGHLY AFTE	PROTECTION SHOUL	HING IN	CLUDING G RN. THIS	LOVES, APRON EQUIPMENT	•	
Engineering Controls	GENERAL ROOM OR LOCAL EXHAUST V POSURE STANDARD(S).	VENTILATION IS U		REQUIRED	TO MEET EX-		
Other Hyglenic	EMERGENCY EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.						
Work Practices	USE GOOD PERSONAL HYGIENE PRACT SMOKING, OR USING TOILET FACILI THOROUGHLY BEFORE REUSE. SHOWER	TIES. PROMPTLY	REMOVE S	SOILED CLO	OTHING/WASH		
VI.	Occupati	onal Exposu	re Lim	iits			
Substance		Source	Date	Туре	Value/Units	Time	
METHYL ALCO	HDL - SKIN	ACGIH	1984	TWA	200 PPM	8 HRS	
		OSHA	1971	STEL Twa	250 PPM 200 PPM	15 MIN 8 HRS	



### METHANOL

MSDS No HCROQ142 Rey. Date 02/18/86

VIL	Emergency and First Aid
Inhalation	IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN EMERGENCY MEDICAL ATTENTION. PROMPT ACTION IS ESSENTIAL.
Eye Contact	IN CASE OF EYE CONTACT, IMMEDIATELY RINSE WITH CLEAN WATER FOR 20-30 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION.
Skin Contact	IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH MILD SOAP/WATER. FLUSH W/LUKEWARM WATER FOR 15 MINUTES. IF STICKY, USE WATERLESS CLEANER FIRST. SEEK MEDICAL ATTENTION IF ILL EFFECT OR IRRITATION DEVELOPS.
Ingestion	IF SWALLOWED, GIVE LUKEWARM WATER (PINT) IF VICTIM COMPLETELY CONSCIOUS/ ALERT. INDUCE VOMITING. OBTAIN EMERGENCY MEDICAL ATTENTION. PROMPT ACTION IS ESSENTIAL.
Emergency Medical	METHANGL INGESTION IS LIFE-THREATENING. INDUCE VOMITING WITH SYRUP OF IPECAC. FOLLOW EMESIS WITH MODERATE AMOUNTS OF WATER GRALLY.
	SYMPTOM ONSET MAY BE DELAYED. ETHANOL THERAPY MAY BE INDICATED.
VIII.	Spill and Disposal
Precautions	EXTREMELY FLAMMABLE LIQUID. RELEASE CAUSES IMMEDIATE FIRE/EXPLOSION HAZARO.  LIQUIDS/VAPORS MAY IGNITE. EVACUATE/LIMIT ACCESS. EQUIP RESPONDERS WITH PROPER PROTECTION (SEE SEC. V). KILL ALL IGNITION SOURCES. STOP RELEASE. PREVENT FLOW TO SEWERS/PUBLIC WATERS. RESTRICT WATER USE FOR CLEANUP.NOTIFY FIRE/ENVIRONMENTAL AUTHORITIES. IMPOUND/RECOVER LARGE LAND SPILL. BLANKET WITH FIREFIGHTING FOAM (SEE SEC. III). SOAK UP SMALL SPILL WITH INERT SOLIDS. USE SUITABLE DISPOSAL CONTAINERS. ON WATER, MATERIAL SOLUBLE/MAY FLOAT OR SINK.MAY BIDDEGRADE. CONTAIN/MINIMIZE DISPERSION/COLLECT. DISPERSE RESIDUE TO REDUCE AQUATIC HARM. REPORT PER REGULATORY REQUIREMENTS.
Waste Disposal Methods	CONTAMINATED PRODUCT/SQIL/WATER MAY BE RCRA/DSHA HAZARDOUS WASTE (SEE 40 CFR 261 AND 29 CFR 1910). IF SPENT SOLVENT INTENDED FOR DISPOSAL, MAY BE DESIGNATED FOOS: IF SPILL CLEANUP RESIDUE, U154 UNDER RCRA LISTINGS. LAND-FILL SDLIDS AT PERMITTED SITES, USE REGISTERED TRANSPORTERS. BURN CONCENTRATED LIQUIDS IN SYSTEMS DESIGNED FOR LOW FLASH POINT MATERIAL. AVOID FLAMEOUTS. ASSURE EMISSIONS COMPLY WITH APPLICABLE REGULATIONS. DILUTE AQUEOUS WASTE MAY BIODEGRADE. AVOID OVERLOADING/POISONING PLANT BIOMASS.
	TENNELLE PROMETER SECTION OF THE PROMETER OF THE PROMETER SECTION OF THE PROME
IX.	Components (This may not be a complete)
Component N	(See Qualification on Page 4
METHANOL	67-56-1 N/AP GT 99 PERCENT

Avoid  DOOR IS  HEAT, S  Conditions  TO Avoid  Materials  TO Avoid  REACTIV	AP 1.1  Other Chemical Reactivi N/P  COLORLESS LIQUID; FAII NOT A GOOD INDICATOR  PARKS, OPEN FLAME, OX	) AP 96 at 60' - 90'F) Sol ty  TALCOHOL ODGR OF EXPOSURE LE	OMPLETE	Dry Point N/AP  Volatile Characteristics MODERATE  pH N/AP  Stability STABLE	
AP -144°F  Specific Gravity (H, O = 1 at 39.2°I AP 0.79  Hazardous Polymerization NOT EXPECTED TO OCCUR  Other Physical N/P and Chemical Properties  Appearance CLEAR, and Odor ODOR IS  Conditions To Avoid  Materials STRONG REACTIV	(MM HG AT 68°F Vapor Sp. Gr. (Air = 1.0 AP 1.1 Other Chemical Reactivi N/P  COLORLESS LIQUID; FAIR NOT A GOOD INDICATOR PARKS, OPEN FLAME, OX	at 60' - 90'F) Soil  ty  TALCOHOL GOOR  OF EXPOSURE LE	OMPLETE	MODERATE pH N/AP Stability	
Specific Gravity (H, O = 1 at 39.2° I AP 0.79  Hazardous Polymerization NOT EXPECTED TO OCCUR  Other Physical N/P and Chemical Properties  Appearance CLEAR, and Odor ODOR IS  Conditions TO Avoid  Materials STRONG TO Avoid	Vapor Sp. Gr. (Air = 1.0 AP 1.1  Other Chemical Reactivi N/P  COLORLESS LIQUID; FAIR NOT A GOOD INDICATOR  PARKS. OPEN FLAME, OX	at 60' - 90'F) Soil  ty  TALCOHOL GOOR  OF EXPOSURE LE	OMPLETE	pH N/AP Stability	
Hazardous Polymerization NOT EXPECTED TO OCCUR  Other Physical N/P and Chemical Properties  Appearance CLEAR, and Odor ODOR IS  Conditions To Avoid  Materials STRONG REACTIV	Other Chemical Reactivi N/P  COLORLESS LIQUID: FAIR NOT A GOOD INDICATOR  PARKS, OPEN FLAME, OX	NT ALCOHOL GOOR OF EXPOSURE LE	; VEL.	Stability	
Other Physical N/P and Chemical Properties  Appearance CLEAR, and Odor ODOR IS  HEAT, S  Conditions to Avoid  Materials STRONG REACTIV	N/P  COLORLESS LIQUID; FAIR  NOT A GOOD INDICATOR  PARKS, OPEN FLAME, OX	NT ALCOHOL ODOR OF EXPOSURE LE	VEL.	•	
Appearance CLEAR, and Odor CDOR IS  Conditions to Avoid  Materials STRONG REACTIV	NOT A GOOD INDICATOR	OF EXPOSURE LE	VEL.		
Avoid  DOOR IS  HEAT, S  Conditions  TO Avoid  Materials  TO Avoid  REACTIV	NOT A GOOD INDICATOR	OF EXPOSURE LE	VEL.		
Conditions to Avoid  Materials STRONG to Avoid		COIZING CONDITI	ONS		
Avoid REACTIV					
	OXIDIZING AGENTS; ALU E METAL WHICH WILL DIS FORMS OF PLASTICS, RU	SPLACE HYDROGEN			
The state of the s	ETE COMBUSTION WILL GE OTHER TOXIC VAPORS SU			BON MONOXIDE AND	
XI.	Additional	Precaution	5		
SPARKS/OPEN FLAMES, BLANKET STORAGE WI CAREFULLY VENT INT BEFORE TRANSFER. W SHOULD CONFORM TO I MATERIAL OF CONSTR MATERIAL OF CONFORM TO CONFORM MATERIAL OF CONFORM MATERIAL OF CONFORM MATERIAL OF CONFORM TO CONFORM MATERIAL OF	TLY CLOSED/ PROPERLY VICTORIANCE OXIDIZING AGENTH DRY INERT GAS. STORE ERNAL PRESSURE BEFORE ILL ABSORB ATMOSPHERIC CODE OXIDO. DO NOT STORE IMPORTANCE OXIDO. DO NOT STORE	ITS. USE ONLY NOTE DRUMS WITH BUTTER CLOSURE MOISTURE. ELECTOR STEEL OF ALUMINUM OR ZUIDUE MAY BE FLUTTENS OR EQUIPMENTES. CHECK ATMOTEQUATE PERSONAL	IN-SPARKING TO ING IN UP POSI RE. GROUND COI ITRICAL EQUIPI IS SATISFACTO INC (GALVANIZ IMMABLE/POISON INT BEFORE MAI ISPHERE FOR EX PROTECTIVE	DOLS. ITION. NTAINERS MENT DRY ZED). NOUS.	
SOURCES OTHER THAN	TION PRESENTED AND CO			FROM	
omments		·			
Note Qualificat	EQ = Equal tions: LT = Less Than GT = Greater Than	AP = Approximat UK = Unkown TR = Trace	N/AP = No	Applicable Information Fo t Applicable Oata Available	bnux

The information in this MSDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

XIII

### METHANOL

MEES N HCR0014 Fey: Date

### Label Information

Manufacturer:

LYONDELL PETROCHEMICAL COMPANY

DIVISION OF ATLANTIC RICHFIELD COMPANY

1221 MCKINNEY AVENUE, SUITE 1600

P.G. BOX 3646

HOUSTON, TEXAS 77253-3646

Telephone Numbers

EMERGENCY

800/424-9300 CHEMTREC 215/353-8300 C.E.R.S.

CUSTOMER SERVICE

713/652-7200 INFO ONLY

Use Statement

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

Signal Word:

DANGER

Physical Hazards:

EXTREMELY FLAMMABLE

Health Hazards:

INHALATION HAZARD SKIN CONTACT HAZARD INGESTION HAZARD

EYE IRRITANT SKIN IRRITANT

MAY CAUSE LONG-TERM ADVERSE HEALTH EFFECTS

Precautionary Measures:

DO NOT HANDLE NEAR HEAT, SPARKS, OR OPEN FLAME.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

DO NOT STORE NEAR COMBUSTIBLE MATERIALS.

AVOID CONTACT WITH EYES.

AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.

USE ONLY WITH ADEQUATE VENTILATION/PERSONAL PROTECTION. PREVENT CONTACT WITH FOOD, CHEWING, OR SMOKING MATERIALS. WASH THOROUGHLY AFTER HANDLING.

DO NOT TASTE/SWALLOW.

**DOT Information**:

UN/NA ID Number- UN 1230

Hazard Class-Proper ShippingFLAMMABLE LIQUID METHYL ALCOHOL

CD2

Instructions:

DRY CHEMICAL

WATER FOG

in case of fire, use-

WATERSPRAY

First Aid -Inhalation

IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE DXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. DBTAIN EMERGENCY MEDICAL

ATTENTION. PROMPT ACTION IS ESSENTIAL

-Eye Contact

IN CASE OF EYE CONTACT, IMMEDIATELY RINSE WITH CLEAN WATER FOR 20-30 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION.

-Skin Contact

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH MILD SCAP/WATER. FLUSH W/LUKEWARM WATER FOR 15 MINUTES. IF STICKY, USE WATERLESS CLEANER FIRST. SEEK MEDICAL ATTENTION IF ILL EFFECT OR IRRITATION DEVELOPS. IF SWALLOWED. GIVE LUKEWARM WATER (PINT) IF VICTIM COMPLETELY CONSCIOUS/

-Ingestion

ALERT. INDUCE VOMITING. OBTAIN EMERGENCY MEDICAL ATTENTION. PROMPT ACTION

IS ESSENTIAL.

In case of spill,

EXTREMELY FLAMMABLE LIQUID. RELEASE CAUSES IMMEDIATE FIRE/EXPLOSION HAZARD. EXTINGUISH ALL IGNITION SOURCES. IMPOUND/RECOVER LARGE LAND SPILL: SOAK UP SMALL SPILL. ON WATER, MAY BIODEGRADE. CONTAIN/MINIMIZE DISPERSION/COLLECT. REPORT PER REGULATORY REQUIREMENTS.

Protective Equipment

-Respiratory

USE NIOSH/MSHA APPROVED SUPPLIED AIR OR SELF-CONTAINED BREATHING APPARATUS,

-Eye

CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD.

-Skin

PROTECTIVE CLOTHING INCLUDING GLOVES, APRON. SLEEVES, BOOTS, AND FULL

HEAD/FACE PROTECTION.

Label No.: DBHCRO01423

Date: 04/48/95 Revision No.



### METHANOL

MSDS No HCROO142 Rev. Date 02/48/86

XII.

## Component Health Hazards

Component Name

Component Health Hazards

METHANOL

SLIGHT SKIN IRRITANT MODERATE HEALTH HAZARD

MODERATE EYE IRRITANT CNS DEPRESSANT



### METHANOL

MSDS HCROO1 Rev. Da 02/18/

XIV.

### Supplement

#### ACUTE AND CHRONIC HEALTH EFFECTS

SWALLOWING AS LITTLE AS 1 TO 4 DUNCES OF METHANDL HAS BEEN REPORTED TO CAUSE DEATH OR SERIOUS IRREVERSIBLE INJURY SUCH AS BLINDNESS IN HUMANS. STUDIES IN EXPERIMENTAL ANIMALS INDICATE THAT THE METABOLISM OF METHANDL TO FORMIC ACID RESULTS IN METABOLIC ACIDOSIS AND REVERSIBLE OR IRREVERSIBLE DAMAGE TO THE OPTIC NERVE. SEE THE MEDICAL TREATMENT SECTION OF THIS DATA SHEET FOR INFORMATION ON TREATING METHANDL POISONING.

A RECENT ARTICLE HAS REPORTED EFFECTS OF EXPOSURE TO METHANOL VAPORS (AM. IND. HYG. ASSOC. J. 45(1): 57-55, 1984). IN THIS REPORT TEACHERS AIDES EXPOSED TO METHANOL VAPORS (365-308C PPM) IN DIRECT-PROCESS SPIRIT DUPLICATING OPERATIONS REPORTED SIGNIFICANTLY MORE OF THE FOLLOWING COMPLAINTS THAN A COMPARISON GROUP: BLURRED VISION, HEADACHE, DIZZINESS, AND NAUSEA.

### SPECIAL HEALTH EFFECTS

INGESTION OF THIS PRODUCT, EVEN IN SMALL AMOUNTS, CAN CAUSE BLINDNESS AND DEATH. ONSET OF SYMPTOMS MAY BE DELAYED FOR 18-24 HOURS: TREATMENT PRIOR TO ONSET OF OBVIOUS SYMPTOMS MAY BE LIFE-SAVING. METHANOL IS RAPIDLY ABSORBED AND EMESIS SHOULD BE INITIATED EARLY TO BE EFFECTIVE, WITHIN 30 MINUTES OF INGESTION, IF POSSIBLE. ADMINISTER SYRUP OF IPECAC. AFTER THE DOSE IS GIVEN, ENCOURAGE PATIENT TO TAKE 6-8 DUNCES OF CLEAR NON-CARBONATED FLUID. DOSE MAY BE REPEATED ONCE IF EMESIS DOES NOT OCCUR WITHIN 20-30 MINUTES. ADMINISTRATION OF AN AQUEOUS SLURRY OF ACTIVATED CHARCOAL WITH MAGNESIUM CIRTATE OR SORBITOL AS A CATHARTIC HAS BEEN REPORTED HELPFUL.

ETHANOL INHIBITS THE FORMATION OF TOXIC METABOLITES. IF ETHANOL THERAPY IS INDICATED, ADMINISTER A LOADING DOSE OF 7.6-10 ML/KG OF BODY WEIGHT OF 10% ETCH IN D5W OVER 30-60 MINUTES. MAINTENANCE DCSE IS 1.4 ML/KG/HR OF 10% ETCH, TO ACHIEVE A 100-130 MG/DL BLOOD ETCH LEVEL DURING ETHANOL THERAPY. (IF CHARCOAL IS ADMINISTERED, ETHANOL SHOULD BE ADMINISTERED INTRAVENOUSLY AND NOT ORALLY.)

MAINTAIN CONTACT WITH POISON CONTROL CENTER DURING ALL ASPECTS OF DIAGNOSIS AND TREATMENT.

XIV.

Supplement Continued

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U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration Form Approved OMB No. 44-R1347

# DATA SHEET

Required under USOL Safety and Health Figurations for Ship Repairing

Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)							
		SECT	ION I				
MANUFACTURER'S NAME  Norchem  (815) 942-7301							
8805 N. Tabler Road Morris, 1L 60450-9988  CHEMICAL NAME AND SYNONYMS Ethylene Glycol Antifreeze Coolant NORKOOL® CONCENTRATE COOTANT  CHEMICAL NAME AND SYNONYMS ETHYLENE Glycol Antifreeze Coolant NORKOOL® CONCENTRATE COOTANT  CHEMICAL NAME AND SYNONYMS  ETHYLENE GLYCOL AND SYNONYMS  CHEMICAL NAME AND SYNONYM							
SECTION II · HAZARDOUS INGREDIENTS							
AND BREEFRYATIVES & PALVENTS & TLV							
PIGMENTS	0	(Unita)	BASE METAL	0	(Unital)		
CATALYST	0	-	ALLOYS	0	<b> </b>		
VEHICLE	0		METALLIC COATINGS	0			
SOLVENTS	0		FILLER METAL PLUS COATING OR CORE FLUX	0			
ADDITIVES	0		OTHERS	0			
OTHERS	0						
HAZAROOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES % (							
Ethylene Glycol 90 50 p							
Other Glycols 5 N.A							
Proprietary inorganic and organic corresion inhibitors 3 N. I							
Water 2 N.A							
SECTION III . PHYSICAL DATA							
SOILING POINT (F.)	<u> </u>	325	SPECIFIC GRAVITY (H20+3)		1.134		
VAPOR PRESSURÉ (mm Mg.)		N.A.	PERCENT, VOLATILE		N.A.		
VAPOR DENSITY (AIR+3)		N.A.	EVAPORATION RATE		N.A.		
SOLUBILITY IN WATER		100%					
APPEARANCE AND ODOR							
SECTION IV .	FiR	FAND	TYP! OSION HAZARD DATA				
SECTION IV - FIRE AND EXPLOSION HAZARD DATA  PLASH POINT (MUDE USER)  250 F, Cleveland Open Cup.  FLAMMABUE UMITS  LII UMI							
EXTINGUISMING MEDIA  Water  SPECIAL FIRE FIGHTING PROCEDURES  None							
UNUSUAL FIRE AND EXPLOSION HAZARDS	None	2					

FEB 22 '89 1	5:33	\$	ECTION V	/ · HEA	LTH HAZARD C	ATA		P.5
THRESHOLD LIMI	inw. L	050 (Rāts	:) - 8 a	/K. It i	s not a prima	ry skin	or eve in	ritani
EFFECTS OF OVE Unkno	REXPOS WN	ÜÄE						Andreas A. S. S. State Street
EMERGENCY AND	FIRST WELL	AID PROCEDI With Wat	iaes er	•				
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			SECTION	VVI - P	EACTIVITY DA	TA	· · · · · · · · · · · · · · · · · · ·	Rich Control of the C
STABILITY	UNS	TABLE		CONDITION	S TO AVOID			
	STA	BL€	1					<del></del>
INCOMPATABILIT	Y Moie	tic solut	ions.			**************************************	<del></del>	
HAZARDOUS DEC	OMPOS	TION PRODU	CTS					*
HAZARDOUS		MAY OCCU	A		CONDITIONS TO AVOID			
POLYMERIZATION	N	WILL NOT	DECUR	X				
				·· • • • • • • • • • • • • • • • • • •				
	w <del>~</del>	SECT	TON VII	. SPILL	OR LEAK PROC	FDURES	······································	
STEPS TO BE TAN	EN IN							
Soak up and/	or fl	ich with	water to	canita	ny drain	·,		
sour an anay	<u> </u>	(23) W(CII	Water to	301110	J diam.			
WASTE DISPOSAL	METHO	Q		<del></del>				
Biodegra	datio	n.						
		SECTION	\/III - 66	SCIAL D	ROTECTION IN	FORMAT	ION	
RESPIRATORY P	OTECT						14/14	
VENTILATION		AL EXHAUST	none	requir	ed.	SPECIAL		***************************************
	MECHANICAL (Grand) LODS 1 STORE WITH COOK OTHER							
PROTECTIVE OLD	PROTECTIVE ALOVES PROTECTION Safety Goggles.							
OTHER PROTECT	IVE EQUI	JIPMENT	<del></del>	<del></del>	Safety Go	oggies.		
	<del></del>				CIAL PRECAUT	IONS		
PAECAUTIONS TO	9	KEN IN HAN	DLING AND	STORING	Keep from fr	eezino.	Freeze p	pint is
approxi		y 15°F.	<del></del>	,			<u></u>	
OTHER PRECAUT	IONS	No	กе					
	-							

PAGE (2)

PREPARED BY: NOVEMBER 27, 1984

Form OSHA-20 Rat. May 72

C: Kapka 2028 PRODUCT CODE: 05-01009 DATE: 04/27/84 PAGE: 1

### MATERIAL SAFETY DATA SHEET

PENNWALT CORPORATION RGANIC CHEMICALS THREE PARKWAY PHILADELPHIA. PA 19102

EMERGENCY PHONE NUMBERS

BUSINESS HOURS : 215-587-7291

OTHER TIMES: 713-455-1211

### PRODUCT IDENTIFICATION

PRODUCT NAME:

SPOTLEAK (R) 1009

CAS NO.:

MIXTURE

CHEMICAL NAME:

BLEND: TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN & NORMAL

PROPYL MERCPIN

MOLECULAR FURMULA: C4HICS, C3H8S AND C3H8S.

SYNONYMS:

NUME

CHEMICAL FAMILY:

ALKYL MERCAPTANS

### INGREDIENTS----HAZARD CLASSIFICATIONS

COMPONENTS:	CAS NO.:	27	JSH4:	NEP4:
TERTIARY DUTYL MERCAPTAN	75-66-1	<b>7</b> 9	FLAMMABLE	2-3-0
			IRRITANT	
ISC-PROPYL MERCAPTAN	75-33-2	15	FLAMMABLE	2-3-0
			IRRITANT	
NORMAL PROPYL MERCAPTAN	157-03-9	5	FLAMMABLE	3-3-0
			IRRITANT	

### SHIPPING IMFORMATION

TT: MERCAPTAN MIXTURE, ALIPHATIC: FLAMMABLE LIQUID; NA 1228; FLAMMABLE PLACARDS; GAS ODDRANT. PORTABLE TANK: MERCAPTAN MIXTURE, ALIPHATIC: FLAMMABLE LIQUID: NA 1223; PLACAPDED FLAMMABLE; GAS DODRANT. DRUMS: MERCAPTAN MIXTURE, ALIPHATIC: FLAMMASLE LIQUID: NA 1228; GAS ODDRANT.

### PHYSICAL PROPERTIES

BOILING POINT/RANGE: 60-70 C 140-158 F

MELTIMS PUINT:

FREEZING POINT:

<-50 F

MOLECULAR WEIGHT:

SPECIFIC GRAVITY(H20=1):

VAPOR PRESSURE(MM HG):

86.7

0.812 0 15.5/15.5 C

6.6 @ 37.8 C 100 F

VAPOR DEMSITY(AIR=1):

SOLUBILITY IN H20:

2 VOLATILES BY VOLUME:

3.0 NEGLIGIBLE 100

APPEARANCE AND DOOR:

WATER-WHITE LIQUID WITH GAS-LIKE (MERCAPTAN) DDDR.

NA - NOT APPLICABLE NE - NOT ESTABLISHED

R) - INDICATES REGISTERED TRADEMARK OF PENNWALT CURPORATION

### MSDS

Hallery C' Jogg Kapka PRODUCT CODE: 05-01009 DATE: 04/27/84 PAGE: 2

FIRE AND EXPLOSION DATA

FLASH POINT:

FLAMMABLE LIMITS:

AUTOIGNITION TEMP.:

` F 100

LOWER: NE

UPPER: NE

NΕ

EXTINGUISHING MEDIA:

NATER- WATER- CO2 SPRAY

FOG

DRY FOAM

CHEMICAL

DB NOT DIRECT WATER INTO LIQUID.

SPECIAL FIRE FIGHTING PROCEDURES:

WIAR ASCBA IF ENTERING AREA WHERE FIRE IS PRESENT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FXTREMELY FLAMMABLE.

REACTIVITY DATA

STABILITY:

CONDITIONS CONTRIBUTING TO INSTABILITY: NA

STABLE

:HTIW TOATMED CIGVA-YILLICITANMEDIMI

STRONG

DXIDIZERS

HAZABBBUS DECOMPOSITION THERMAL AND OTHER:

HYDROGEN SULFIDE (THERMAL). SULFUR DIOXIDE (COMBUSTION).

CONDITIONS TO AVOID:

HEAT

JOEN.

FLAMES

SPARKS

IGNITION

SOURCES

TEXTCITY

ROUTE:

ANIMAL:

DATA:

GRAL

2115

LD50: APPROX. 1500 MG/KG.

DERMAL

RATS

NON-LETHAL AT 2000 MG/KG.

INHALATION

PATS

LC50: APPROX. 16,000 PPH.

TOXIC CEFECTS

EYE FFFECTS: IRRITANT

CONJUNCTIVAL INFLAMMATION (RABBIT) REVERSIBLE. ACUTE BUT BRIEF PAIN ON

NA - NOT APPLICABLE NE - NOT ESTABLISHED

R) - INDICATES REGISTERED TRADEMARK OF PENNWALT CORPORATION

### TOXICITY - CONTINUED

CONTACT.

SKIN EFFECTS:

IRRITANT

MODERATE SKIN EFFECT.

HEALTH HAZARD INFORMATION

PERMISSIBLE EXPOSURE LIMITS:

NE (1994)

EMERGENCY FIRST AID

INGESTION:

NA

DERMAL:

GADS HIIW HEAK

AND WATER

EYE CONTACT:

FLUSH WITH PLENTY OF WATER FOR

AT LEAST 15 MINUTES

GET MEDICAL

ATTENTION

INHALATION:

REMOVE TO

ERESH AIR

INHALING VAPORS IN HIGH CONCENTRATION MAY TEMPORARILY DESENSITIZE DEFACT

TORY SYSTEM AND MAY CAUSE HEADACHE AND NAUSEA. 

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS:

USE WITH ADEQUATE

VENTIL ATION

FYC:

GOGGLES

HAND(SLOVE TYPE):

SYNTHETIC RUBBER

ANY NON-PERMEABLE GLOVE

RESPIRATOR TYPE: SELF-CONTAINED SUPPLIED AIR

USE THESE FOR ENTERING AREAS CONTAINING SPILL OR FIRE.

OTHER PROTECTIVE FOUIPMENT: NA

NA - NOT APPLICABLE NE - NOT ESTABLISHED

R) - INDICATES REGISTERED TRADEMARK OF PENNWALT CORPORATION

"PENNHALT CORPORATION

MSDS

C: Jogg-Kapka-Ju

PRODUCT CODE: 05-01009 DATE: 04/27/84 PAGE: 4

### SPECIAL HANDLING AND STORAGE CONDITIONS

WASH THOROUGHLY AFTER HANDLING

OO NOT GET IN EYES, ON SKIN OR CLOTHING DO NOT BREATHE DUST.VAPOR.MIST.GAS

KEEP CONTAINER CLOSED

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES STORE IN TIGHTLY CLOSED CONTAINERS

USE EXPLISION
PROOF EQUIPMENT

EMPTY CONTAINER MAY CONTAIN HAZAROOUS RESIDUES

### SPILL MANAGEMENT

DR INERT MATERIAL

NEUTRALIZE

PREVENT SPREAD
OF SPILL

### DISPOSAL PROCEDURES

INCLUERATE IF PERMITTED BY AUTHORITIES.

CONSULT FEOERAL, STATE, OR LOCAL BUTHORITIES FOR PROPER DISPOSAL PROCEDURES.

MSOS PREPARED BY JEND M. TOTH

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, PENUMALT MAKES NO MARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA - YOT APPLICABLE NE - YOT ESTABLISHED

R) - INDICATES REGISTERED TRADEMARK OF PENNWALT CORPORATION



Post Office Box 32370 Louisville, Kentucky 40232 Telex 204190, 204239

Telephone 502-634-7200 Facsimile 502-637-3732

### MATERIAL SAFETY DATA SHEET G-132B

SECTION	T	PPANITAT	IDENTIFICATION
SECTION	7	PRODUCT	IDENTIFICATION

Trade Name and Synonyms

G-132B

Chemical Family

Formula

Heterogeneous Catalyst

CuO+ZnO+Al2O3+C

#### SECTION II HAZARDOUS INGREDIENTS

### Hazardous Components in the Solid Mixture

COMPONENT	CAS No.	<u>*</u>	OSHA/PEL	ACGIH/TLV
Zinc oxide Copper oxide Aluminum oxide	1314-13-2 1317-38-0 1344-28-1	40-50 35-45 8-15	2.0 mg/m <sup>3</sup> 1.0 mg/m <sup>3</sup> 15.0 mg/m <sup>3</sup>	10.0 mg/m <sup>3</sup> 1.0 mg/m <sup>3</sup> 10.0 mg/m
Carbon (Syn. graphite)	7782-42-5	1-5	*NIA	$10.0 \text{ mg/m}^3$

#### SECTION III PHYSICAL DATA

Appearance and Odor: Dark brown cylindrical tablets. No odor.

Melting Point: Greater than 1600°C, greater than 3000°F.

Solubility in Water: Insoluble.

Bulk Density: 80 lbs./cu. ft.

Percent Volatile by Weight at 1000°F: Less than 7%.

Updated: June 17, 1988

Page 1



### SECTION IV FIRE EXPLOSION DATA

Fire and Explosion Hazard Negligible fire and explosion hazard when exposed to heat or flame by reaction with incompatible substances.

Flash Point Non-flammable

Firefighting Media Dry chemical, water spray, or foam. For larger fires, use water spray fog or foam.

Firefighting
Non-flammable solids, liquids or gases: Cool containers that are
exposed to flames with water from the side until well after fire is
out. For massive fire in enclosed area, use unmanned hose holder or
monitor nozzles; if this is impossible, withdraw from area and let
fire burn. Withdraw immediately in case of rising sound from
venting safety device or any discoloration of the tank due to fire.

#### SECTION V HEALTH HAZARD DATA

Health hazards may arise from inhalation, ingestion, or contact with the skin and eyes.

Excessive repeated inhalation of carbon may cause irritation to the upper respiratory tract and lung damage. Activated carbon may cause irritation of the eyes and mucous membranes, conjunctivitis, epithelial hyperplasia of the cornea, and eczematous inflammation of the eyes. Ingestion of large quantities may cause stomach and alimentary tract irritation. In the form of dust, activated carbon may contain small amounts of irritating and possibly toxic impurities.

Alumina particles deposited in the eye may cause necrosis of the cornea. Ingestion may cause stomach and intestinal distress. Salts of alumina may cause dermatoses, eczema, conjunctivitis, and irritation of the mucous membranes of the upper respiratory tract. Prolonged inhalation of alumina dust may result in pneumoconiosis. Lung damage (Shaver's Disease) may result from inhalation of finely divided aluminum oxide particles; it is complicated by silica and oxides of iron in the inhaled air.

Updated: June 17, 1988

Page 2



### SECTION VI REACTIVITY DATA

Reactivity

Is stable under normal temperatures and pressures in sealed containers. Hazardous polymerization will not occur. Finely divided particles can result in fire or explosion. Toxic fumes are produced at elevated temperatures. When heated, can react explosively with magnesium or chlorinated rubber.

### SECTION VII SPILL OR LEAK PROCEDURES

Notify safety personnel of spills or leaks. Clean-up personnel need protection against inhalation of dusts or fumes. Eye protection is required. Vacuuming and/or wet methods of cleanup are preferred. Place in appropriate containers for disposal, keeping airborne particulates at a minimum.

Disposal

Consult applicable local, state, and federal regulations to select the method of disposal. Recover metal components by reprocessing when possible.

### SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection

Provide a NIOSH/MSHA jointly approved respirator in the absence of proper environmental control. Contact your safety equipment supplier for proper mask type.

Ventilation

Provide general and/or local exhaust ventilation to keep exposures below the TLV. Ventilation used must be designed to prevent spots of dust accumulation or recycling of dusts.

Protective Clothing

Wear protective clothing, including long sleeves and gloves, to prevent repeated or prolonged skin contact.

Eye Protection

Chemical splash goggles designed in compliance with OSHA regulations are recommended. Consult your safety equipment supplier.

Updated: June 17, 1988



Excessive inhalation of copper dusts may produce irritation to the upper respiratory tract and may cause temporary or permanent damage to the lungs. Sublimed copper oxide may be responsible for a form of metal fume fever. Ingestion of large quantities may result in damage to the liver, pancreas, kidney, or nervous system. Prolonged or repeated contact with the skin may result in irritation and possible dermatitis in sensitive individuals. Contact with eye tissue may result in irritation and/or conjunctivitis.

Inhalation of zinc dust, mists, or fumes may irritate the respiratory tract, mucous membranes and skin. At higher levels of exposure "zinc chills" or "zinc fume fever" may occur with symptoms of metallic or sweet taste, marked thirst, coughing, weakness, fatigue, muscular pain, nausea and vomiting, followed by fever, perspiration and chills, dyspnea, rales throughout the chest, and tachycardia. Onset of symptoms usually occur about 4-12 hours after exposure. Workers in zinc refining have been reported to suffer from a variety of nonspecific intestinal, respiratory, and nervous symptoms. Excessive contact may cause perforation of the nasal septum. Prolonged or repeated contact under poor hygienic conditions may produce a papular, pustular eczema or dermatitis called "oxide pox." Contact with the eye tissue may produce irritation and/or conjunctivitis.

### First Aid (Inhalation)

Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

#### First Aid (Ingestion)

If large amounts have been ingested, give emetics to cause vomiting. Stomach siphon may be applied as well. Milk and fatty acids should be avoided. Get medical attention immediately.

### · First Aid (Eyes)

Wash eyes immediately and carefully for 15 to 20 minutes with running water, lifting upper and lower eyelids occasionally. Get prompt medical attention.

### First Aid (Skin)

To avoid repeated or prolonged contact with this chemical, use good hygienic practices. Wash with soap and a large amount of water. Get medical attention if irritation or inflammation develops.



### SECTION IX

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

Please refer to 40 CFR Part 372, Subpart D (372.62 - Specific Toxic Chemical Listings) and Section II - Hazardous Ingredients of this document for the names and percentages of the toxic chemical(s) in this product.

The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current and applicable to meet their circumstances.

\* No Information Available

Doc. 151

Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 87792

PRODUCI NAME: TRIETHYLENE GLYCOL - TECHNICAL

Effective Date: 03/20/88 Date Printed: 03/29/88

MSDS:000271

### 1. INGREDIENTS:

Triethylene glycol

CAS# 000112-27-6

99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

### 2. PHYSICAL DATA:

BOILING POINT: 545.9F; 286C VAP PRESS: < 1.0 mmHg € 20C

VAP DENSITY: 5.18

SOL. IN WATER: Completely miscible

SP. GRAVITY: 1.1 € 25/25C APPEARANCE: Colorless liquid.

ODOR: Mild odor.

WESKEN 1372 18380 P.O. BOX TX 18380 Robstown, TX

### 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 350F; 177C

METHOD USED: PMCC

FLAMMABLE LIMITS

LFL: 0.9%

UFL: 9.2%

EXTINGUISHING MEDIA: Water fog, alcohol resistant foam, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Not available.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure self-contained

(Continued on Page 2)

(R) Indicates a Trademark of The Dow Chemical Company

\* An Operating Unit of The Dow Chemical Company

Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 87792

Page: 2

PRODUCT NAME: TRIETHYLENE GLYCOL - TECHNICAL

Effective Date: 03/20/88 Date Printed: 03/29/88

MSDS:000271

### 3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

breathing apparatus.

### 4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Will ignite in air at 700F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning produces normal products of combustion, including carbon monoxide, carbon dioxide, and water.

HAZARDOUS POLYMERIZATION: Will not occur.

### 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Small spills: Soak up with absorbent material and collect for disposal. Large spills: dike to prevent contamination of waterways, then pump into suitable containers for disposal.

DISPOSAL METHOD: Burn in an approved incinerator in accordance with all local, state, and federal requirements.

### 6. HEALTH HAZARD DATA:

EYE: Essentially nonirritating to eyes.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation. May cause more severe response if skin is abraded (scratched or cut).

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful

(Continued on Page 3)

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Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 87792

Page: 3

PRODUCT NAME: TRIETHYLENE GLYCOL - TECHNICAL

Effective Date: 03/20/88 Date Printed: 03/29/88

MSDS:000271

### 6. HEALTH HAZARD DATA: (CONTINUED)

amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury. The oral LD50 for rats is 16,800-22,060 mg/kg.

INHALATION: No adverse effects are anticipated from inhalation.

SYSTEMIC & OTHER EFFECTS: Based on available data, repeated exposures are not anticipated to cause any significant adverse effects. Did not cause cancer in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction.

### 7. FIRST AID:

EYES: Irrigate immediately with water for at least five minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested.

Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Call a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to the patient.

(Continued on Page 4)
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Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 87792

Page: 4

PRODUCT NAME: TRIETHYLENE GLYCOL - TECHNICAL

Effective Date: 03/20/88 Date Printed: 03/29/88

MSDS:000271

### 8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE: None established.

VENTILATION: Good general ventilation should be sufficient.

RESPIRATORY PROTECTION: In misty atmospheres, use an approved mist respirator.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed.

EYE PROTECTION: Use safety glasses.

### 9. ADDITIONAL INFORMATION:

### REGULATORY REQUIREMENTS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable deficitions, to meet the following categories:

Not to have met any hazard category

SPECIAL PRECAUTIONS TO BE TAKEN IN HANGLING AND STORAGE:
Practice reasonable care to avoid exposure.

Trace quantities of ethylene oxide (E0) may be present in this product. While these trace quantities could accumulate in headspace areas of storage and transport vessels, they are not expected to create a condition which will result in E0 concentrations greater than 0.5 ppm (8 hour TWA) in the breathing zone of the workplace for appropriate applications. OSHA has established a permissible exposure limit of 1.0 ppm 8 hr TWA for E0. (Code of Federal Regulations Part 1910.1047 of Title 29).

(Continued on Page 5)

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<sup>\*</sup> An Operating Unit of The Dow Chemical Company

Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 87792

Page: 5

PRODUCT NAME: TRIETHYLENE GLYCOL - TECHNICAL

Effective Date: 03/20/88 Date Printed: 03/29/88

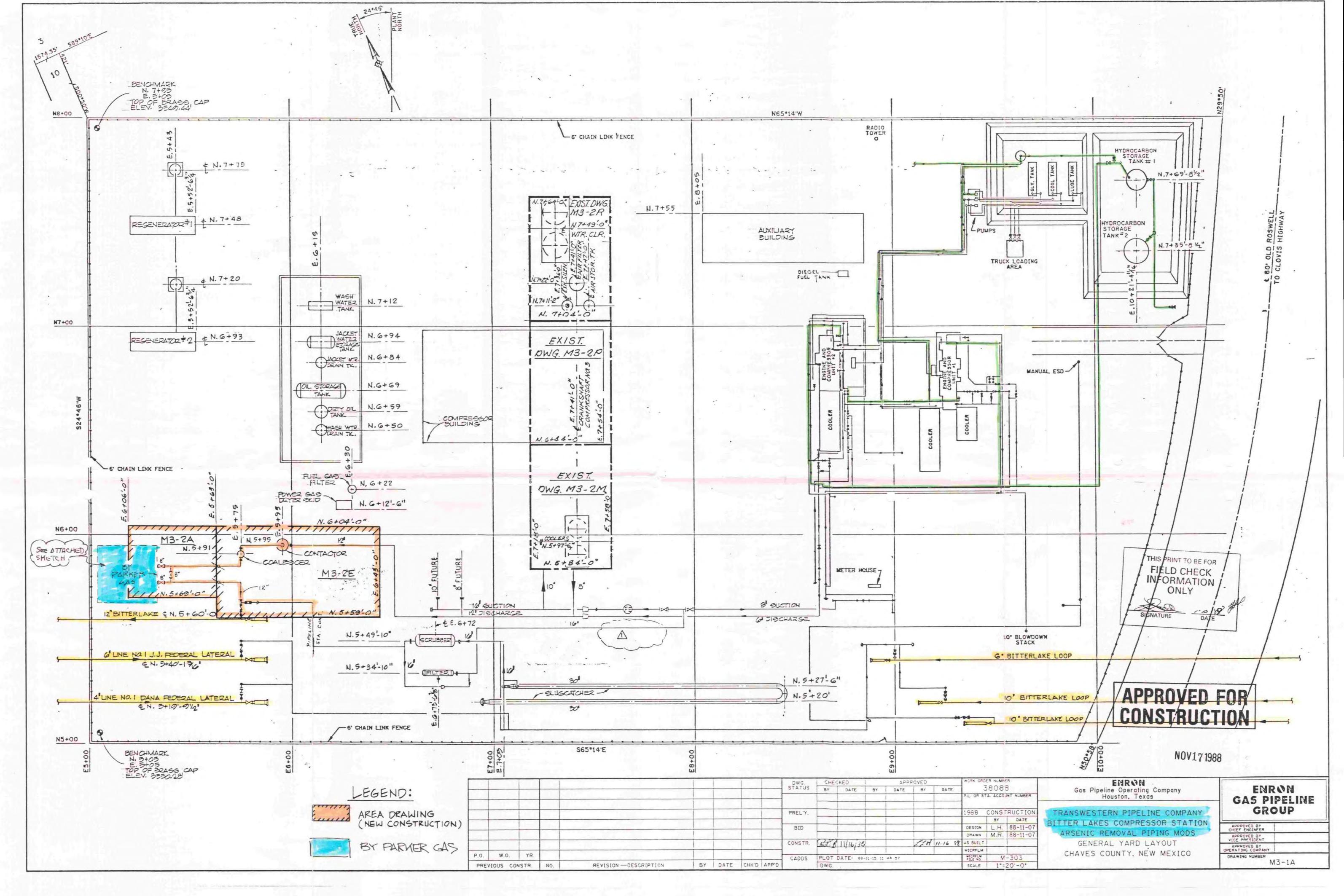
MSDS:000271

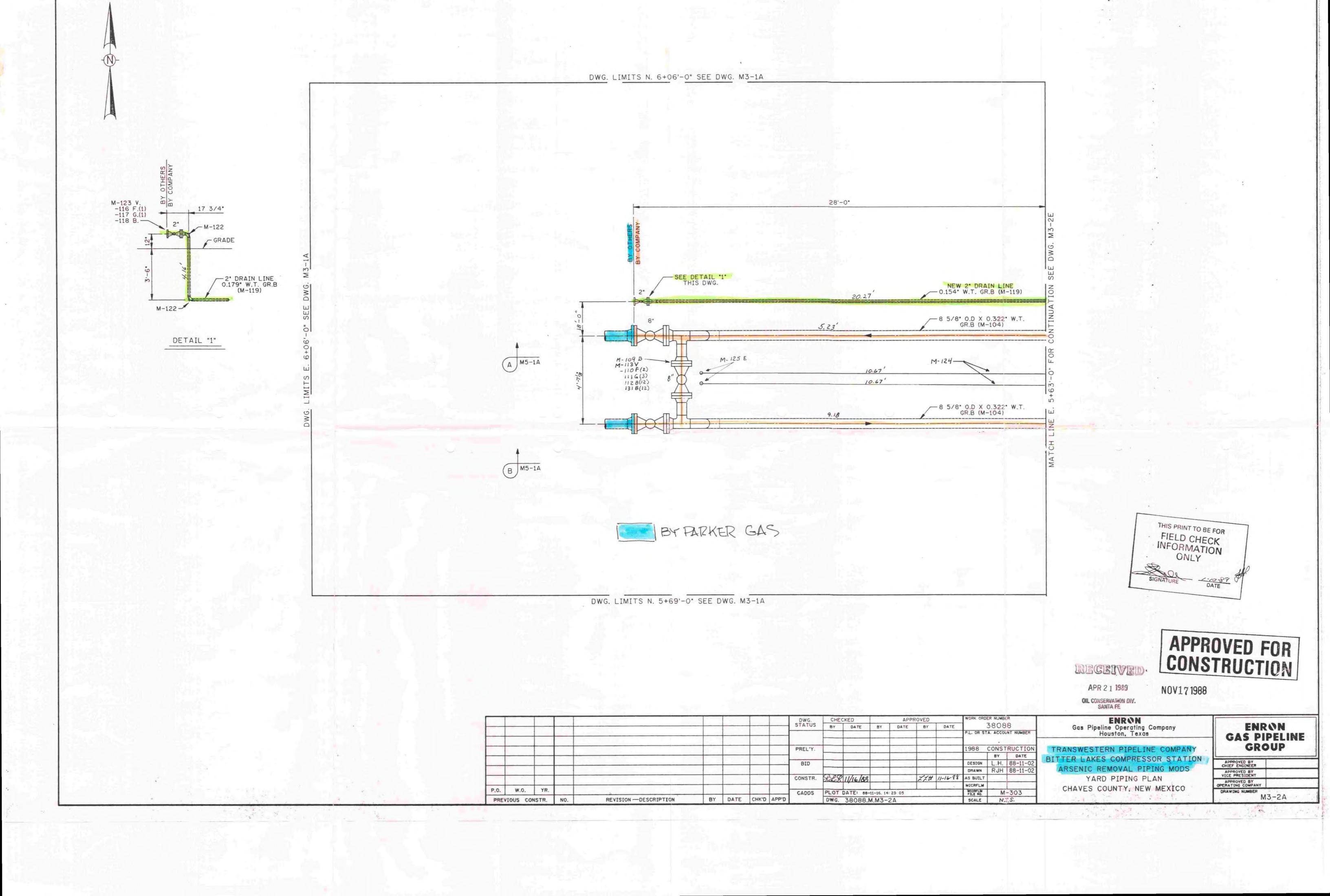
9. ADDITIONAL INFORMATION: (CONTINUED)

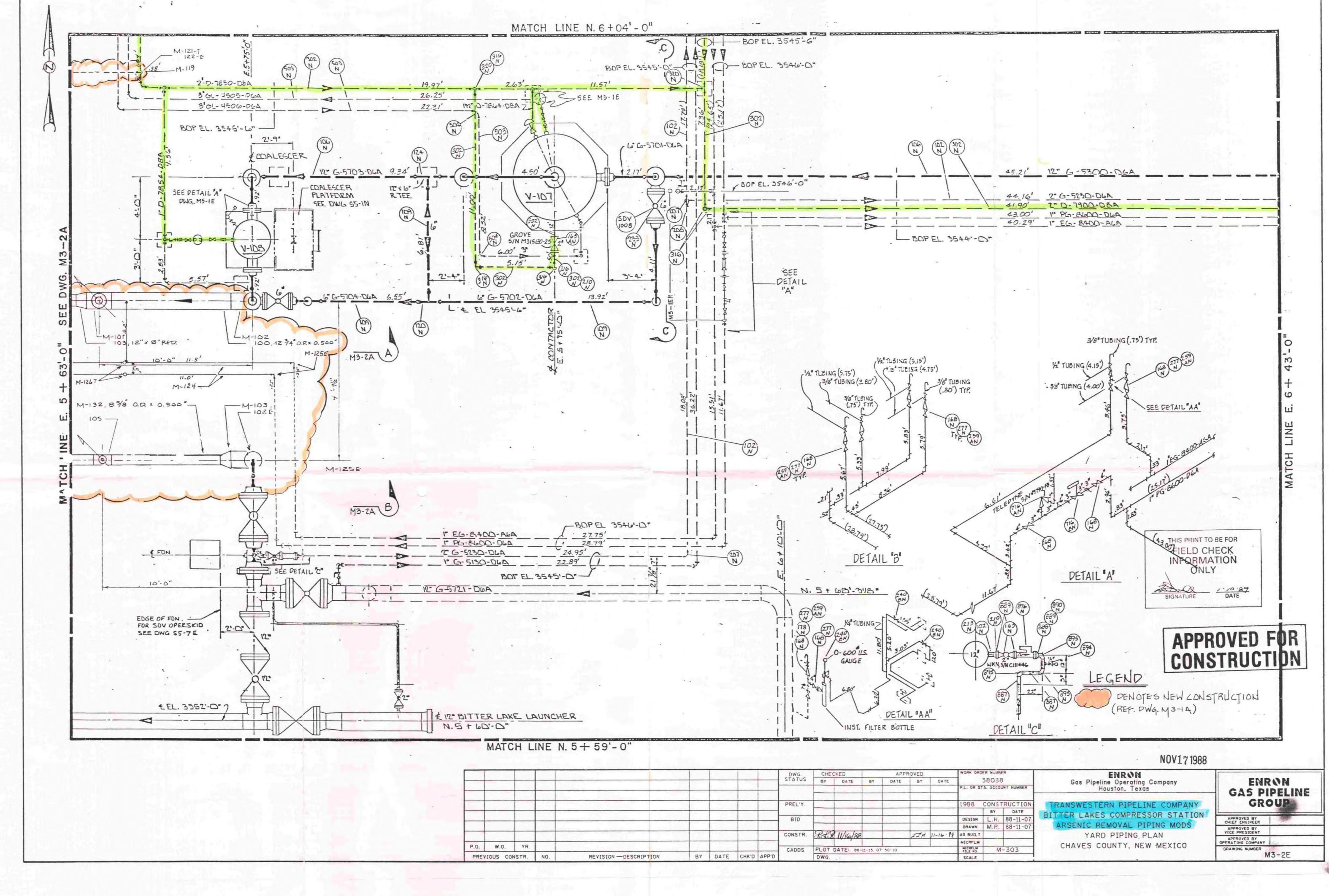
MSDS STATUS: Revised Section 9.

<sup>(</sup>R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult The Dow Chemical Company
For Further Information.

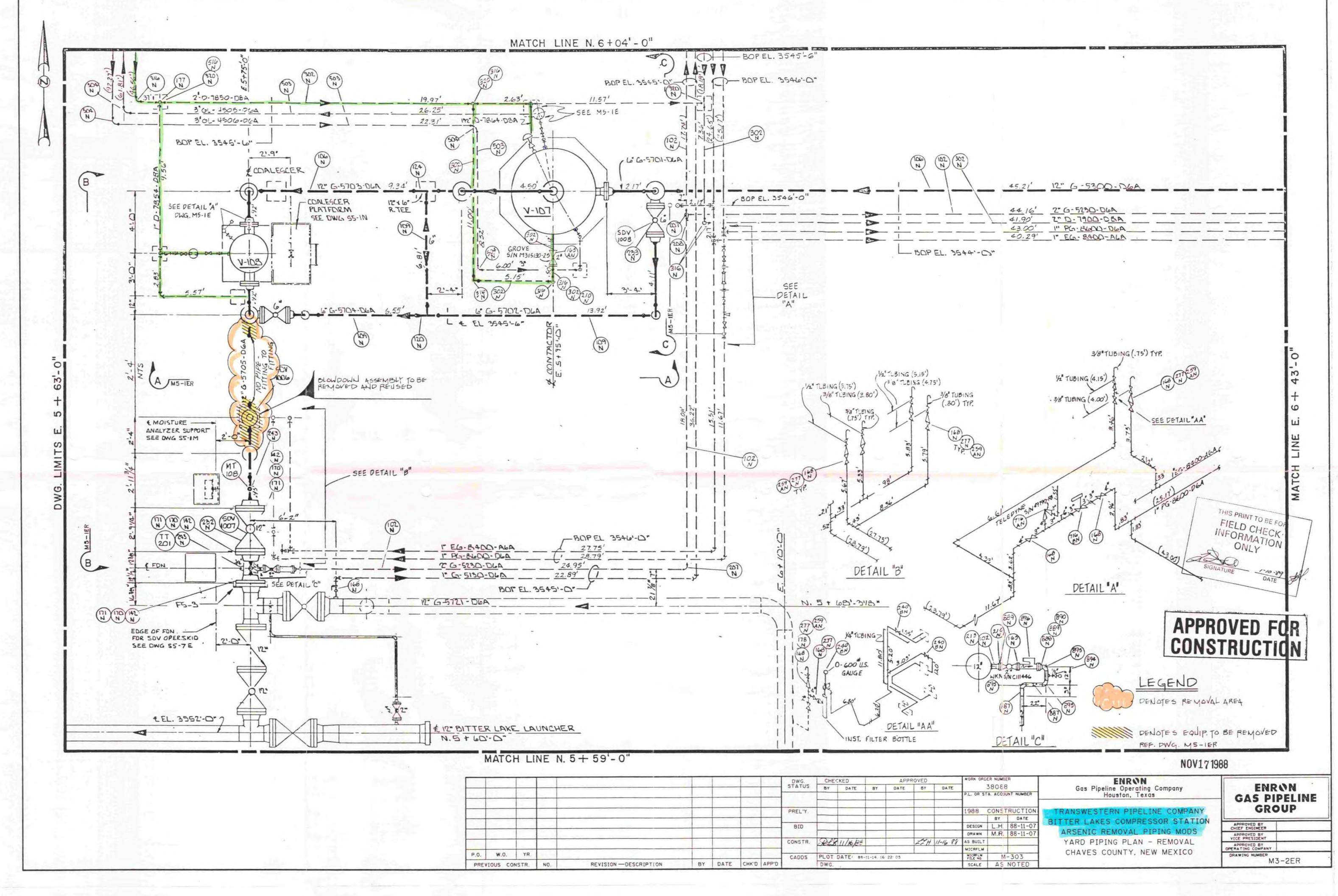
<sup>\*</sup> An Operating Unit of The Dow Chemical Company

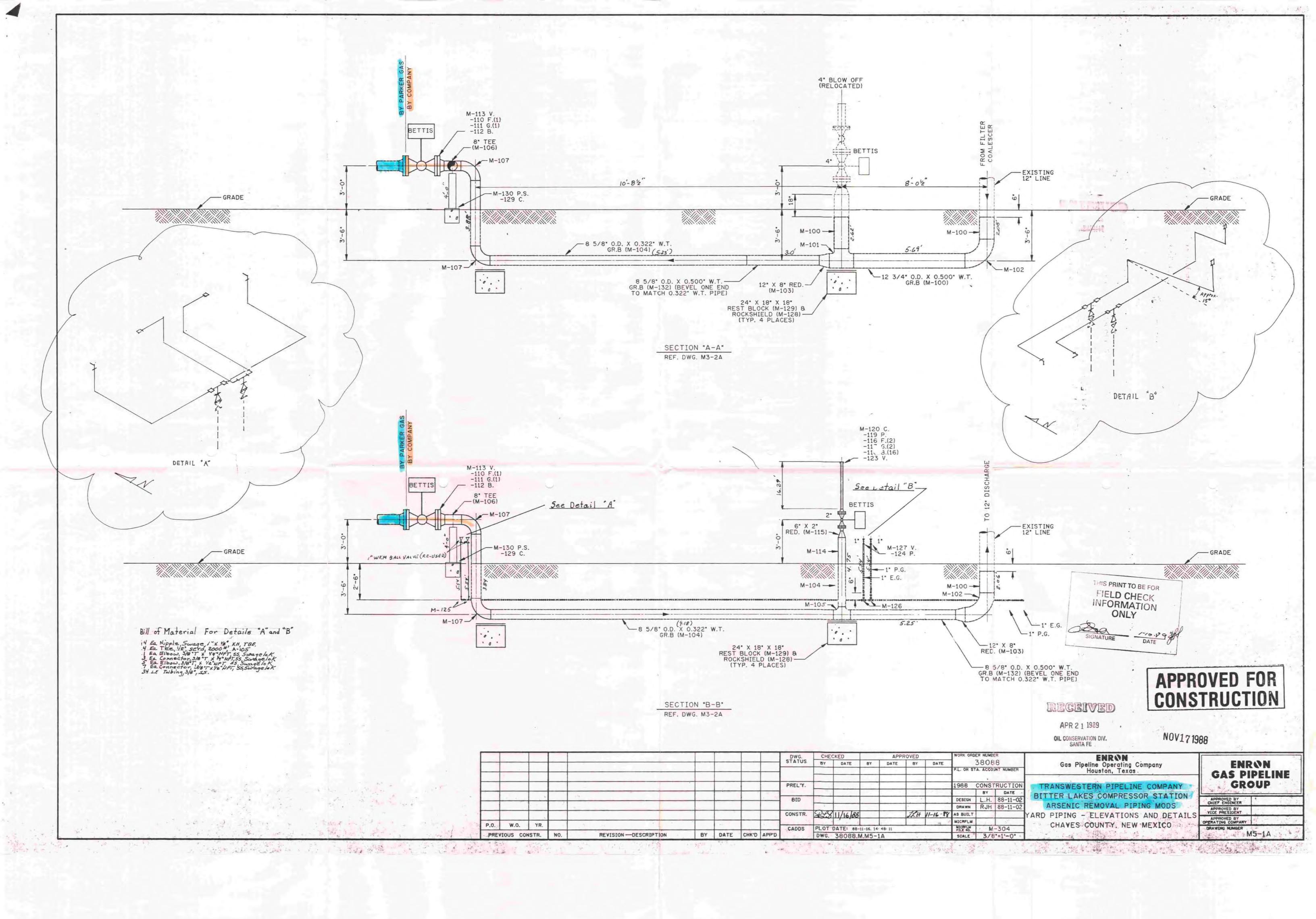


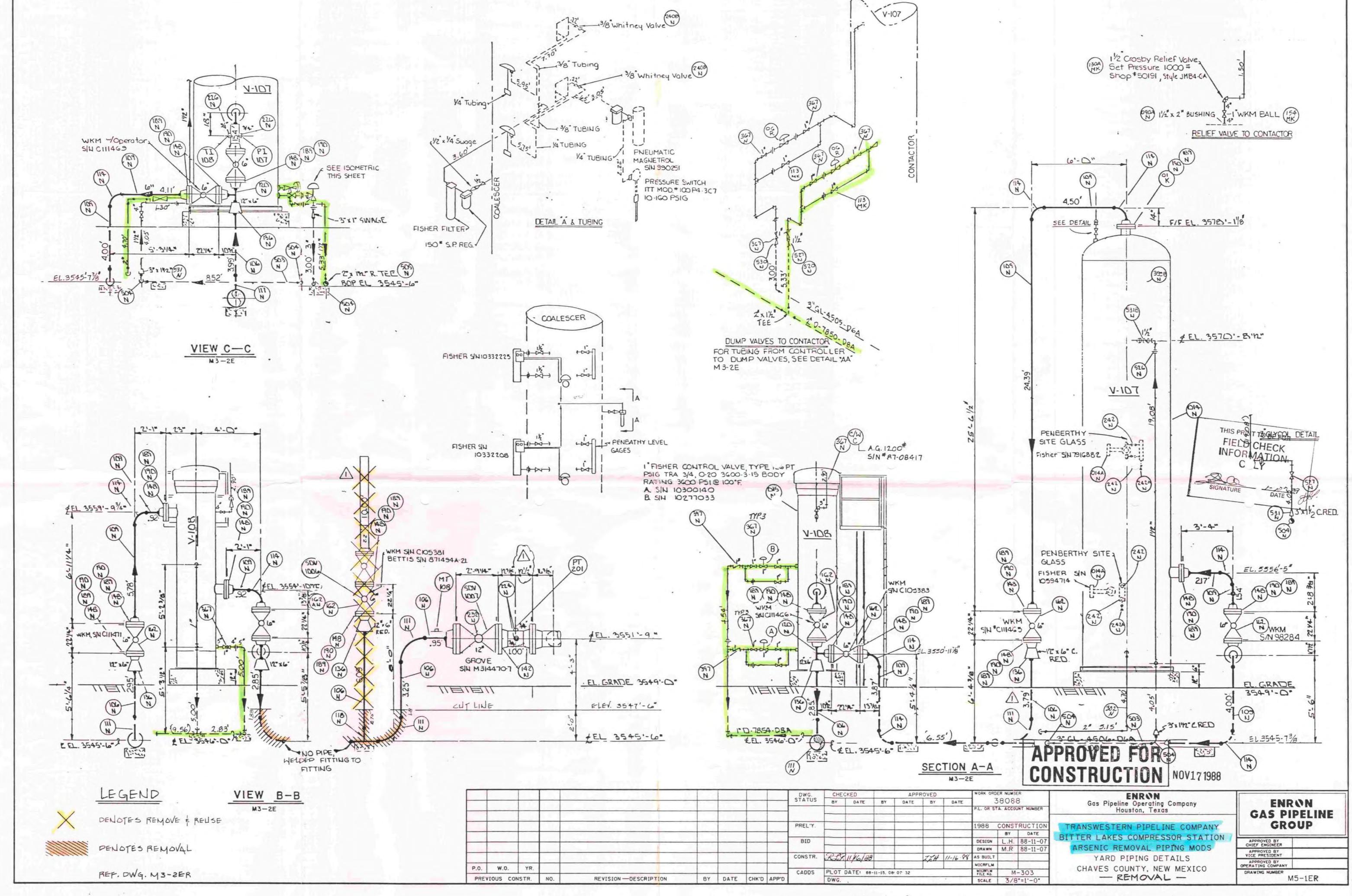


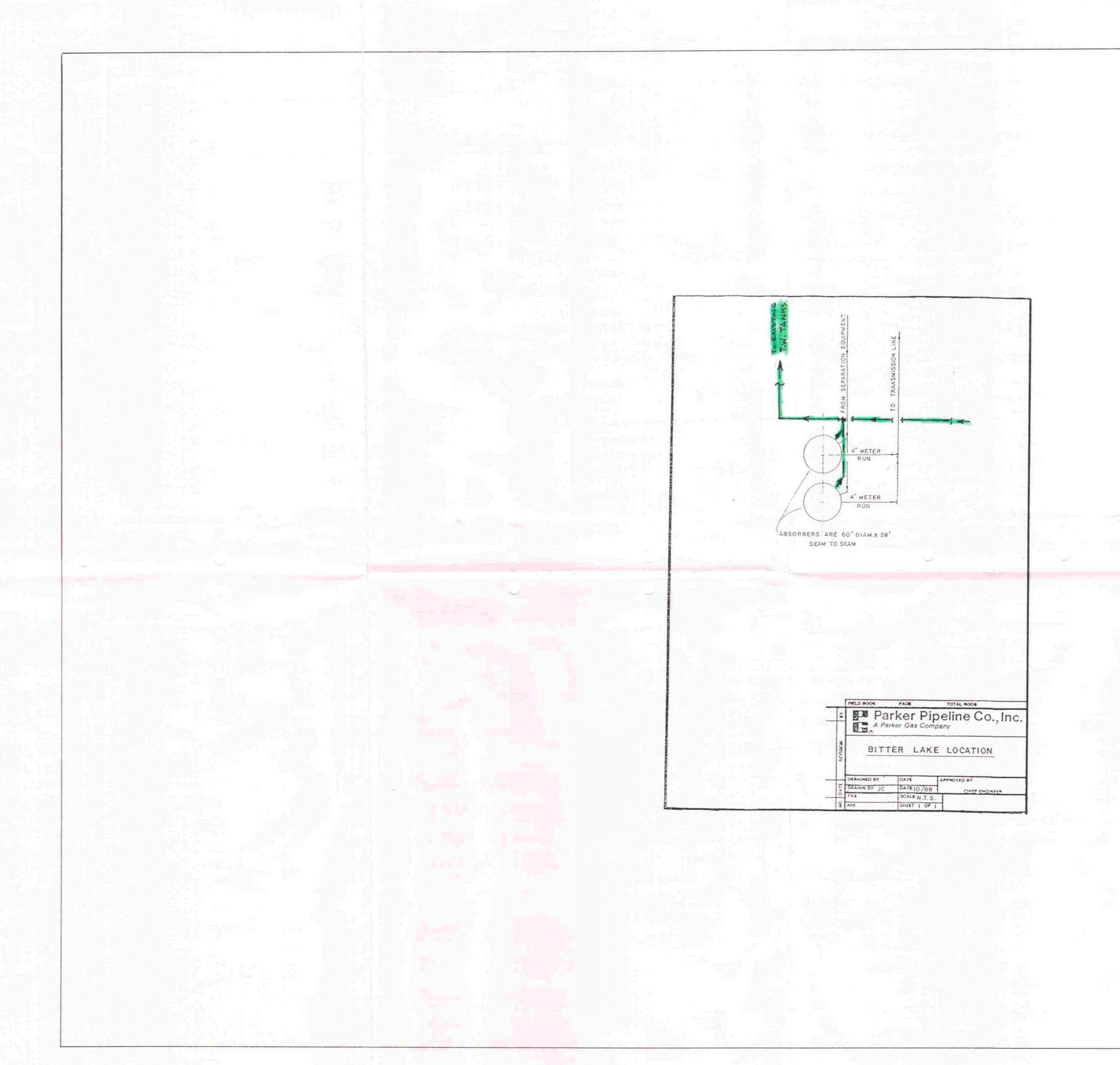












Gas Pipeline Operating Company Houston, Texas

BITTER TAKES COMPRESSOR STATION ARSENIC PIPING MODS

GENERAL YARD LAYOUT CHAVES COUNTY, NEW MEXICO

ENRON GAS PIPELINE GROUP

APPROVED BY
CHIEF ENGINEER

APPROVED BY
VICE PRESIDENT

APPROVED BY
OPERATING COMPANY

DRAWING NUMBER
II PARKER



04/10/87 Date:

CITGO PETROLEUM CORPORATION P. O. Box 3758 Tulsa, Oklahoma 74102

### MATERIAL SAFETY DATA SHEET

Trade Name: CITGO Pacemaker Gas Engine Oil 1100

Commodity Code: 32-210

Synonyms: Lubricating Oil

CAS Reg. No.: Mixture (Refer to Section I)

Citgo Index No. (CIN): 0209

Technical Contact: (918) 561-5165 Medical Emergency: (318) 491-6215

### MATERIAL HAZARD EVALUATION

(Per OSHA's Hazard Communication Standard [29 CFR Part 1910.1200])

"OHCS"

Health: Non-Hazardous. (OHCS)

Precautionary Statement: Avoid prolonged skin contact with used motor oils.

### I. GENERIC COMPOSITION/COMPONENTS

Components Refined Petroleum Oil(s)	CAS # 64742-65-0 64741-88-4	<u>%</u> 85-95	Hazard Data Oral: LD50(rat): >15g/kg Eye: Practically Non-Irritating Skin: Practically Non-Irritating Ihln: LC50/4H(rat): >5,000mg/m³ Comparable material non-carcinoganic in mouse skin assay.
Dispersant, anti-wear, anti-oxidant	Mixture	6-10	Minor eye and skin irritant
VI improver	Mixture	5-7	Eye irritant
Pour Depressant	Mixture	<1	Eye and skin irritant

#### II. PHYSICAL DATA

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

No\_ No Combustible Oxidizer No No Compressed Gas Pyrophoric No Explosive Reactivity No Flammable Yes Stable No Organic Peroxide Unstable No

Boiling Point, 760 mmHg,

°C(°F): ND

Melting Point, °C(°F): NA

Vapor Pressure, mmHg (25°C):

Specific Gravity  $(H_20=1): 0.88$ 

Solubility in H<sub>2</sub>0, % By Wt.: Negligible

Vapor Density (Air=1):>1 Evaporation Rate

(Butyl Acetate=1): <1

% Volatiles By Vol.: Negligible

pH of Undiluted Product: ND

Appearance and Odor: Amber liquid, mild odor.

#### III. FIRE AND EXPLOSION DATA

Flash Point, COC, °C(°F): 245(473)

NFPA\*

Flash Point, PM, °C(°F): 210(410)

Health:

Fire Point, COC, °C(°F): 288(535) Flammability:

Reactivity:

0

Flammable Limits in Air, % Vol.:

Lower: NA

Upper: NA

Extinguishing Media: CO<sub>2</sub>, dry chemical, foam or water fog.

Special Fire Fighting Procedure:

Unusual Fire or Explosion Hazard: Water may cause frothing.

☆Citgo assignment based on our evaluation per NFPA guidelines. Hazard Rating least-0; slight-1; moderate-2; high-3; extreme-4.

CITGO

CIN #: 0209

#### IV. REACTIVITY DATA

Stability: Yes Stable No Unstable

Conditions Contributing to Instability: None.

Incompatibility: Strong oxidants.

Hazardous Decomposition Products (thermal, unless otherwise specified): CO, CO,.

Conditions Contributing to Hazardous Polymerization: None.

#### V. SPILL OR LEAK PROCEDURES

Procedures if Material is spilled:

Remove sources of heat or ignition, provide adequate ventilation, contain leak. Absorb small spills with suitable material such as rags, straw or sand. Report spills as required to appropriate authorities. Chemtrec Emergency Number: 800-424-9300.

Waste Disposal:

It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Check before disposing to be sure you are in compliance with all applicable laws and regulations.

Protective measures during repair and maintenance of contaminated equipment:
Refer to Section VII - Special Protection Information.
Avoid prolonged contact with used oil, wash skin thoroughly with soap and water.

ND = No Data

NA = Not Applicable

CIN #: 0209

#### VI. HEALTH HAZARD DATA

Health Hazard Classification (Per 29 CFR Part 1910.1200)

No	Carcinogen	No	Corrosive
No	Animal Carcinogen	No	Irritant
No	Suspect Carcinogen	No	Sensitizer
No	Mutagen	No	Teratogen
No	Highly Toxic	No	Target Organ
No	Toxic		

Product listed as carcinogen or potential carcinogen by:

NTP No, IARC No, OSHA No, OTHER No.

Toxicity Summary: Slightly toxic, 1 pt. to 1 qt. is approximate lethal oral dose

for 150 lb. human adult.

Major Route of Entry: Inhalation of accidentally produced fumes.

Acute Exposure Symptoms:

Inhalation: Low risk of inhalation. In enclosed spaces or when hot, vapors

may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Mists above TLV may

cause chemical pneumonitis.

Dermal Contact: Mild irritant.

Eye Contact: Transient, mildly irritating.

Ingestion: Generally low toxicity. Very large amounts may cause

generalized depression, headache, drowsiness, nausea, vomiting or

diarrhea. Small doses may produce irritation and diarrhea.

Injection: Irritating.

Chronic Exposure: Prolonged and/or frequent contact may cause drying, cracking

(dermatitis) or folliculitis.

Other Special

Effects: None expected.

First Aid and Emergency Procedures for Acute Effect

Inhalation: Remove to fresh air. Respiratory support if necessary.

Seek medical aid.

Dermal: Wash with soap and water. Do not wear heavily contaminated

clothing before laundering.

Eyes: Flush with large volumes of water. See physician if any

complications arise.

Ingestion: Do not induce vomiting. Seek medical aid.

Injection: Subcutaneous injection is a medical emergency . . seek medical

aid immediately.

Notes to Physician: On ingestion, an oil viscosity of about 530 SUS (100°F) presents no aspiration hazard. However, for large quantities, lavage may still be advised.

CIN #: 0209



#### SPECIAL PROTECTION INFORMATION

Ventilation Requirements: Ventilation is required when work place exposures exceed

TLV.

Permitted Threshold OSHA OSHA ACGIH Agency: ACGIH Air Concentrations: Year: 1972 1985 1985-86 1985-86 TWA PEL TWA STEL Type:

Mineral Oil ppm:  $mg/m^3$ : 5 5 10

Specific Personal Protective Equipment:

Respiratory: Normally none required. If high vapor or mist concentrations

expected - use respirator approved for organic vapors and mists.

Safety goggles, or chemical splash goggles if splashing is Eves:

anticipated.

Dermal: Oil impervious gloves if frequent or prolonged contact is

expected.

Other Clothing or Equipment: Wear body-covering work clothes to avoid prolonged

or repeated exposure. Launder soiled work clothes before reuse.

#### VIII. TRANSPORTATION AND SPECIAL PRECAUTIONS

Hazardous Material Placard/Label:

Caution: Avoid prolonged skin contact with used motor oils. Continuous contact

with used oil has caused skin cancer in laboratory animals. After

draining oil, wash skin thoroughly with soap and water.

Store below 120°F. Do not apply high heat or flame to container. Keep

separate from strong oxidizing agents.

DOT Information:

DOT/UN Shipping Name: Petroleum Lubricating Oil.

DOT Hazard Class: Non-Hazardous.

DOT/UN Hazard Identification Number: None assigned.

DOT Shipping Container Restrictions: None. DOT Placard: None

Caution: Empty containers may contain product residue which could include

flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

All statements, information, and data provided in this material safety data sheet are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied, on our part. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.



# MATERIAL SAFETY DATA SHEET

DATE:

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

		<b>-</b>	I-F	ROD	UCT IN	FORMATION				
MANUFACTURED FOR ALPHA DYN C		Λ:	<del></del>						392-7	ONE NUMBER
ADDRESS	TEIVILO	ML	·					OTHER		004
P.O. BOX F	#3 BR	AND DRIV	/E +	HOBE	3S, N.M					
PROPRIETARY					Т	RADENAME BLUE TI	IGER			
,			II-H	AZAI	RDOUS	INGREDIENTS				
							CAS#		%(wt)	TLV(ppm)
					, , , , , , , , , , , , , , , , , , , ,					
									-	
							ļ			
						<del></del>				
***************************************										
				-111-	PHYSIC	AL DATA				
BOILING POINT (*	F)			2	12	SPECIFIC GRAVI	TY (H <sub>2</sub> 0 = 1)		1	.035
VAPOR PRESSURE (psig) 18			% VOLATILE BY VOLUME 90.00			00.0				
VAPOR DENSITY				١	I/A	EVAPORATION RATE ( WATER = 1) 1.00			.00	
SOLUBILITY IN W	ATER			10	0%	APPEARANCE AND ODOR CLEAR, BLUE, MOD. VISCOUS LIQUID				
			IV-FIRE	& E	XPLOSI	ON HAZARD D	ATA			
FLAMMABILITY AS PER NONE	CPSC FL	AME EXTENSION	TEST			FLAMMABLE LIMITS	Low	er	Upper	
EXTINGUISHING MEDIA		· · · · · · · · · · · · · · · · · · ·				1		<u> </u>		•
SPECIAL FIRE FIGHTIN	G PROCEI	OURES			•		<u></u>			. ,
UNUSUAL FIRE & EXPL	OSION HA	ZARDS								
-				V-F	REACTI	VITY DATA	· · · · · · · · · · · · · · · · · · ·			
STABILITY	UNSTA	BLE		COND	ITIONS TO A	VOID				
	STABLE		Х							
INCOMPATABILITY (Ma	terials to a	ivoid)	<u></u>	4					<u> </u>	
HAZARDOUS DECOMPO	OSITION P	RODUCTS								
HAZARDOUS		MAY OCC	JR			CONDITIONS TO AVO	ID		- · · · · · · · · · · · · · · · · · · ·	
POLYMERIZATIO	N	WILL NOT	OCCUR		Х					********

VI-HEALTH HAZARD DATA OSHA PERMISSIBLE EXPOSURE LIMIT EFFECTS OF OVER EXPOSURE NO ADVERSE EFFECTS FROM INHILATION. INHALATION SKIN CONTACT / ABSORPTION MAY BE IRRITATING TO SKIN. FLUSH OFF WITH CLEAR WATER. GASTROINTESTINAL IRRITATION IF INGESTED. DO NOT INDUCE VOMITING. LARGE VOLUMES OF CLEAR WATER AND SEEK PROMPT MEDICAL ATTENTION. EYES FLUSH WITH CLEAR WATER, THEN APPLY AN ISOTONIC EYEWASH SOLUTION. **EMERGENCY AND FIRST AID PROCEDURES** EYES AND SKIN FLUSH OFF WITH CLEAR MATER INHALATION N/A INGESTION DRINK LARGE VOLUMES OF CLEAR WATER AND SEEK PROMPT MEDICAL ATTENTION VII-SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED FLUSH ALL EFFECTED SURFACES WITH CLEAR WATER, SQUEEGEE TO FLOOR DRAIN, THEN FLUSH TO STANDARD SEWER WITH LARGE VOLUMES OF CLEAR WATER. WIPE DRY OR ALLOW TO AIR DRY. WASTE DISPOSAL METHOD DILITE CONCENTRATION OF WASTE OR SPENT MATERIAL WITH CLEAR WATER. THEN FLUSH TO STANDARD SEWER. EMPTY CONTAINER NAY BE SENT TO A LANDFILL SITE OR OFFERED FOR RECONDITIONING. **VIII-SPECIAL PROTECTION INFORMATION** SPECIFIC PERSONAL PROTECTIVE EQUIPMENT EYE GOGGLES SKIN RUBBER GOLVES VENTILATION REQUIREMENTS ADEQUATE IX-SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING KEEP OUT OF THE REACH OF CHILDREN. KEEP CONTAINER SEALED WHEN NOT IN USE. PROTECT PRODUCT FROM STORAGE IN AREA EXPOSED TO TEMPERATURE

EXTREMES. STORE PRODUCT IN ORIGINAL SHIPPING CONTAINER WITH PRODUCT LABEL INTACT.

READ PRODUCT LABEL CAREFULLY BEFORE USING PRODUCT.

OTHER PRECAUTIONS

## HAZARD COMMUNICATION GUIDE

## Material Safety Data Sheet

N/D = No Data N/A = Not Applicable

Supercedes: 10/20/86 I. General	InformationD	ate Revised: 12/12/88	
Chemical Name & Synanyms	Trade Home & Synor		
N/A	OIL-OFF		
Chemicol Family Solvent=Surfactant Mixture	Formula N/A		
Proper DOT Shipping Name	DOI Hozard Classific	colion	
Compound, degreasing, liquid	Combustible material Monufacturer's Phone Number		
Crain Chemical Co., Inc.	214/358-3301 Chemirec Phone Nui	mber	
P.O. Box 540995, Dallas, TX 75354	1-800-424-9300		
11. Ing	redients		
Principal Hazardous Components	Percent	Threshold limit Yalue (units) OSHA ACGIH	
Petroleum Hydrocarbon Distillate CAS# 8008-20-6		500ppm N/D	
		·	
III. Phy	sical Data		
Boiling Point (*F) 354-525	Specific Gravity (H. 0.848-	0 = 1},	
Vapor Pressure (mm Hg.)	Percent Volotile By	Volume (%)	
0.4 @ 68°F Vapor Density (Air = 1)	75	= 1) Toluene	
6.6	< 0.1		
Solubility in Water	рН		
Negligible Appearance & Odor	N/A		
Clear, dark blueish green liquid/characteristi	c odor		
IV. Fire & Expl		Data ·	
Flash Point (Test Method)	Auto Ignilion Temp		
149°F Flormable Umits	410°F	UEL	
Combustible	1.0	8.0	
Foam, dry chemical, CO <sub>2</sub> Special fire Fighling Procedures			
Water stream may spray fire. Use water spr	ay only to keep f	ire exposed containers cool.	
Unusual Fire & Explosion Hazards			
Can form combustible mixtures with air whe flash spontaneously.	n heated to appro	oximately 171°F will not	
	d On OSHA form 20	1101	

	V. Health H	azard Data				
Threshold limit Value	OSHA threshold limit V	olue	ACGIH Hueshold Limit Value			
500ppm Carcinogen - MTP Program	1 500ppm	Carcinogen - IARC Pro	· N/D			
N/A		N/A				
Irritation, possible effects include headache, drowsiness, nausea, fatigue, peumonitis, pulmonary edema, CNS depression, aspiration hazard.						
Medical Conditions Aggravated By Exposure Many aggravate existing eye, sh	kin or respiratory c	conditions.				
Primary Route(s) of Entry						
Inhalation skin Inhalation: M with water for 15 minutes, occawater. Ingestion: Do NOT indu	asionally lifting upo	oer & lower evel	ecessary. Eyes: Immediately flush lids. Skin: Wash with soap and on as soon as possible.			
	VI. Reacti	vily Dala				
Stability 1	litions to Avoid	· <del></del>				
, IX 1 219016 H	eat, sparks, open f	lames, welding a	arcs.			
, , ,	ong oxidizing agen	its				
Polymerication X Will Not Occur Not		nerize				
llazordaus Decomposition Products Incomplete combustion can yiel	•					
VII. E	invironmental P	rotection Pro	cedures			
	ish to sewer or ope		nition sources and evacuate area. up with inert absorbent and place			
Waste Disposal Method						
Utilize licensed waste disposal opermitted industrial waste dispo		r recycling or in	cineration. Utilize			
VI	II. Special Prote	ection Informa	nlion			
Eye Protection		Skin Protection				
Chemical goggles Respiratory Protection (Specific Type) Hace organic respirator or supplicative of the control		Ventilation Necom - Maintain ad	sistent gloves mended lequate ventilation to keep vapor ions below TLV.			
	IX. Special	Precaulions				
Hygienic Practices In Handling & Storage						
Maintain good industrial hygieni	c practices. Store	as a Class III A	combustible liquid.			
Precautions For Repair & Maintenance	: Of Contaminated Equ	ipment				
Remove all ignition sources.						
Other Precautions		•				
Avoid breathing vapors over ext		. 6 . 1. 12 . 1				
Avoid contact with eyes, skin.	Keep out of reach	of children.				



### TRIANGLE REFINERIES, INC.

SPECIALTY PRODUCTS DIVISION

100 MANUAL STREET & BUTTO 100 & HERSVEPORT LOD SIANA 77105



MSOS NUMBER

MATERIAL SAFETY DATA SHEET

W = 1410

**EMERGENCY TELEPHONE** 

The second secon

405/270-2526

800/424-9300

### I. PRODUCT IDENTIFICATION

CHEMICAL NAME	
Stoddard Solv	ent, White Spirits
FORMULA	CAS NUMBER
C <sub>8</sub> -C <sub>12</sub>	64741-48-9
FIRE CODE	REACTIVITY CODE
2	0
	Stoddard Solv

#### II. HAZARDOUS COMPONENTS

INGREDIENT	બ	. OSHA LIMIT	TLV
Stoddard Solvent	100	TWA-SOO ppm	TWA-100 ppm STEL-200 ppm
Xylene	Up to 1%	TWA≐100 ppm	TWA-100 ppm STEL-150 ppm

Petroleum Naphtha/Approx L ppm

		CTION INFORMATION .			
ag Closed Cup 100°F	minimum Approx. 4		LUME IN AIR	LOWER	UPPER 6
	nemical, or foam. Water ed to fire. If leak or				
AZARDOUS DECOMPOSITION PRODUCTS					
ncomplete combustion	can yield carbon monoxi	de and various hydro	ocarbons.		
FIRE AND EXPLOSION HAZARDS					
	xtures with air and flastion. Yapor heavier than and flash back.				
HAZARDOUS POLYMERIZATION		STABILITY			
Will Not Occur	May Occur		<u> </u>	<u>istable</u>	
	V.HEALTI  lude headache, nasal and pulmonary edema, centra			drowsine	ess,
Possible effects incl	lude headache, nasal and	respiratory irritat		drowsine	ess,
Possible effects incl igue, peumonitis,	lude headache, nasal and	respiratory irritat		drowsine	ess,
Possible effects inclingue, peumonitis,	lude headache, nasal and	respiratory irritat	ression.	drowsine	<b>.</b> S S ,
Possible effects incl igue, peumonitis,	lude headache, nasal and	respiratory irritat		drowsing	ess,
Possible effects incl igue, peumonitis,  EVE CONTACT  Irritation	lude headache, nasal and	respiratory irritat nervous system dep	ression.	drowsing	ess,
Possible effects incl igue, peumonitis,  EVE CONTACT  Irritation	lude headache, nasal and pulmonary edema, centra	respiratory irritat nervous system dep	ression.	drowsine	ess,
Possible effects incl igue, peumonitis,  EVE CONTACT  Irritation  SKIN CONTACT  Irritation, may caus  NGESTION  Possible effects inc	lude headache, nasal and pulmonary edema, centra	respiratory irritation nervous system deposition of keratin lay	er.		
Possible effects incl igue, peumonitis,  EVE CONTACT  Irritation  SKIN CONTACT  Irritation, may caus  NGESTION  Possible effects inc	lude headache, nasal and pulmonary edema, central e dermatitis due to defa	respiratory irritation nervous system deposition of keratin lay	er.		
Possible effects incl igue, peumonitis,  EVE CONTACT  Irritation  SKIN CONTACT  Irritation, may caus  NGESTION  Possible effects inc	lude headache, nasal and pulmonary edema, central e dermatitis due to defa	respiratory irritation nervous system deposition of keratin lay	er.		

#### VI. FIRST AID PROCEDURES

$\mathcal{Y}$ electrosed person to fresh air. If breathing has stopped, perform antificial respiration. If medical attention as soon as possible.
Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lowe and upper lids. Get medical attention as soon as possible.
SKIN CONTACT
If clothing soaked, immediately remove slothing and wash skin with soap and water. Launder clothing before wearing. Get medical attention promptly.
NIFSTION
Do <u>not</u> induce vomiting. Get medical attention as soon as possible.

#### VII. EMPLOYEE PROTECTION

ARATORY PROTECTION ( UTILIZE NIOSH APPROVED RESPIRATORS, REFER TO MANUFACTURER'S PROTECTION FACTORS AND OSHA STANDARD 1910.134. AS A GUIDELINE:)

Up to 500 ppm, half-mask organic vapor respirator.
Up to 1000 ppm, full-face organic vapor respirator or full-face supplied air respirator.
Greater than 1000 ppm, fire fighting, or unknown concentration, self-contained breathing apparatus with positive pressure.

PROTECTIVE

Chemical goggles, face shield.

Personal production of the pro

Gloves: Nitrile, neoprene or other material resistant to naphtha solvent.

Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc. remain upwind. Request assistance of safety and industrial giene personnel to determine air concentrations.

VIII. TRANSPORTAT	TION AND STORAGE INFOR	MATION
DOT Hazardous Material Yes No		ARO CLASS
Petroleum naphtha UN1255		oustible liquid
Do not store with strong oxidizers. Sto	ore as OSHA Class II com	mbustible liquid.
IX. ENVIR	RONMENTAL PROTECTION	
Notify emergency response personal Build dike to contain flow. For water. Pick up with inert about If flash point of residue is a permitted hazardous waste dispermitted industrial waste dispermitted industrial waste dispermited.	Remove free liquid, do sorbent and place in cla under 140°F, utilize ha posal site. If flash i	not flush to sewer or open osed container for disposal. zardous waste manifest and
EPA Hazardous Waste 🖾 Yes 🔲 No	EPA WASTE COOK NUMBER	Ignitable
Utilize licensed waste dispose Based on flash point, utilize or permitted industrial waste	permitted hazardous wa	ste disposal site and manifes
MANAGER'S SIGNATURE IPRODUCT SAFETY AND COMPLIANCES Prepared by Kerr-McGee Refining Corporation for Triangle Refineries.	in C.L. Russell	2 S-15-85

The information and recommendations contained in this publication have been compiled from sources believed to be reliable and to represent the best current opinion on the subject at the time of publication. Since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee—that the recommendations will be adequate for all individuals or situations. Each user of the product described herein should determine the suitability of the described product for his particular purpose and should comply with all federal and state rules and regulations concerning the described product.

From: Brewer Oil Bob Smith 1-29-87

H. W. DUDLEY
VICE PRESIDENT
LS SPECIALTIES MARKETING



HOUSTON PHONE (713) 663-4800

POST OFFICE BOX 3367

HOUSTON, TEXAS

77253

### KERMAC Mineral Spirits (100W)

### WYNNEWOOD REFINERY

### TYPICAL SPECIFICATIONS

CORROSION	Naphthenes	1-A
	Naphthenes	43.5
		43.5
	Aromatics	11.3
	Olefins	Nil.
	Paraffins	45.2
CHEMICAL COMPO	SITION VOL &	<b>3</b> ·
Kauri Butanol		35.9
Aniline Point		138.7
	DP	396
tion general design of the second second design of the second se	90%	368
	50%	338
	10%	323
DISTILLATION	IBP	314
COLOR		+30
FLASH POINT TC	С	100 F. Min.
SPECIFIC GRAVI	ŢŸ.	.7839
-API GRAVITY €	60 F.	49.0



# MATERIAL SAFETY DATA SPEET

EFFECTIVE DATE: 7-29-85 REVISION NUMBER: \_\_\_\_3



QUAKER STATE CORPORATION • P.O. Box 989, Oil City, Pennsylvania 16301.

### I. IDENTIFICATION

PRODUCT NAME: Quaker State Dexron Automatic Transmission Fluid

PRODUCT CODE: 06519 (bulk)

CHEMICAL NAME: N/A

06510 (55 gal. drum)

06509 (16 gal. drum)

FORMULA: Complex mixture of Petroleum Hydrocarbons plus Additives

06508 (5 gal. container)

406548 (1 qt. pl. bottle)

SYNONYMS: Automatic Transmission Fluid

CHEMICAL FAMILY: Petroleum Hydrocarbon

DEPARTMENT OF

HAZARD CLASSIFICATION: Not hazardous under DOT 172.101

TRANSPORTATION:

SHIPPING NAME:

ID: -: IFICATION #: None

CAS #: Mixture

CAS NAME: Mixture

### II. TYPICAL COMPOSITION

MATERIAL

CAS #

TLV (UNITS) (SOURCE)

HAZARD

Mineral Oils@

Mixture

5 mg/M3 TWA ACG!H

Additive Package\*

Mixture

< 10

\*Additive manufacturers consider their additive package to be proprietary information. @We consider our blend of mineral oils to be proprietary information.

1.5

### III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg: 680°F min.

PHYSICAL STATE:

Liquid

والثاثر بمناهدة والرسام أرما

SPECIFIC GRAVITY (H,0 = 1): .94

VAPOR PRESSURE AT 20°C.: N/D

SOLUBILITY IN

N/D

WATER, % BY WT.:

Ni 1

PER CENT VOLATILES

BY VOLUME:

VAPOR DENSITY (AIR = 1):

**EVAPORATION RATE** 

Ni1

( Butyl Acetate = 1)

N/D

APPEARANCE AND ODOR:

Red liquid with slight hydrocarbon odor.

This information is, to the best of Quaker State Corporation's knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.

### IV. HEALTH HAZARD DATA

TLV AND SOURCE: Oil Mist, Mineral - TWA 5 mg/M3 ACGIH 1983-1984 STEL 10 mg/M3 ACG1H 1983-1984

#### ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING

: Not expected to be acutely toxic by ingestion. May cause nausea and diarrhea.

SKIN ABSORPTION: No data available.

INHALATION

: Not expected to be toxic by inhalation However, breathing mineral oil mists at levels above the TLV may cause respiratory irritation and possible discomfort. The

creation of an oil mist is unlikely when used as a motor oil.

SKIN CONTACT

: Material expected to cause no more than minor skin irritation following prolonged

and/or repeated contact.

EYE CONTACT

: May cause minor eye irritation.

#### CHRONIC EFFECTS OF OVEREXPOSURE

None known.

#### EMERGENCY AND FIRST AID PROCEDURES

**SWALLOWING** 

: If material is swallowed, do not induce vomiting and contact a physician.

SKIN

: Wash skin thoroughly with soap and water. Launder soiled clothing.

INHALATION

: Although inhalation of this material is unlikely, if respiratory discomfort or irritation occurs due to inhalation of oil mist, move person to fresh air. Contact

a physician if discomfort or irritation continues.

**EYES** 

: Flush with water for 15 minutes. If irritation continues, contact a physician.



### V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT [test method(s)]: 320° F, minimum (COC)

AUTO ICNITION TEMPERATURE: N/D

FLAMMABLE LIMITS IN AIR, & BY VOLUME: N/A

EXTINGUISHING MEDIA: CO<sub>2</sub>, Dry Chemical, Foam, Water Fog. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

<u>SPECIAL FIRE FIGHTING PROCEDURES</u>: For small fires involving this material, no special procedure or precautions are necessary. For large storage fires involving this material and/or other lubricating products, do not enter any enclosed or confined space without full protective equipment including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst when exposed to fire conditions.

### VI. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures and open flame.

INCOMPATIBILITY (materials to avoid): Strong oxidizing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon dioxide, water vapor. May produce oxides of sulphur, nitrogen and phosphorus. Incomplete combustion can produce carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known

### VII. SPILL OR LEAK PROCEDURES

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

Clean up spills as soon as possible. Absorb large spills with commercially available absorbent materials, such as absorbent clay.

#### WASTE DISPOSAL METHOD:

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Place contaminated material in disposable containers and bury in an approved landfill site per local, state and federal regulations.

### VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type): Not applicable for intended use. However, if unusual operating conditions create concentrations in excess of the TLV, an approved respirator is recommended.

<u>VENTILATION</u>: None needed for intended use. Special ventilation is necessary only if unusual operating conditions create concentrations in excess of the TLV.

<u>PROTECTIVE GLOVES</u>: Impervious protective gloves can minimize skin exposures where prolonged or repeated exposures can occur.

EYE PROTECTION: Although none normally necessary for intended use, safety glasses or a face shield can reduce the possibility of accidental eye contact.

OTHER PROTECTIVE EQUIPMENT: None normally necessary for intended use.

### IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near high heat, open flames or strong oxidizing materials.

Do not transfer this material to unmarked containers.

PRECAUTIONS DURING USE: Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

NOTES

Approved by D. W. Cralley - Corporate Safety Coordinator