



**MAR 08 2011**

Larry Landis  
Chevron USA Inc  
PO Box 1392  
Bakersfield, CA 93302

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # S-1131  
Project # S-1052761**

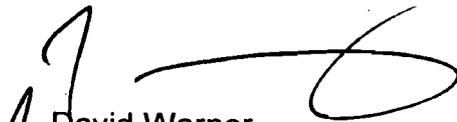
Dear Mr. Landis:

The Air Pollution Control Officer has modified the Title V permit for Chevron USA Inc by incorporating Authorities to Construct S-1131-932-8, -944-7, -958-8, -996-8, -1007-7, -1010-7, -1011-7, -1012-7, -1013-7, -1014-10, -1035-12 and -1048-8. These ATCs were issued to authorize the following modifications: close well casing vent valves, reroute production to tanks with vapor control or exempt equipment, and abandon the well casing collection system.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on June 7, 2005. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

  
David Warner  
Director of Permit Services

DW:ao

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



**MAR 08 2011**

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # S-1131  
Project # S-1052761**

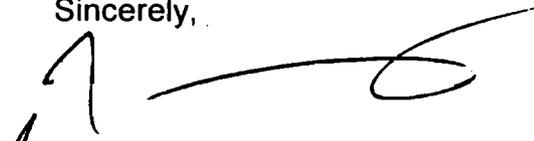
Dear Mr. Rios:

The Air Pollution Control Officer has modified the Title V permit for Chevron USA Inc by incorporating Authorities to Construct S-1131-932-8, -944-7, -958-8, -996-8, -1007-7, -1010-7, -1011-7, -1012-7, -1013-7, -1014-10, -1035-12 and -1048-8. These ATCs were issued to authorize the following modifications: close well casing vent valves, reroute production to tanks with vapor control or exempt equipment, and abandon the well casing collection system.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on June 7, 2005. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner  
Director of Permit Services

DW:ao

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-932-9

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 25 **TOWNSHIP:** 28S **RANGE:** 27E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL PRODUCTION OPERATION (#S A-1 & A-2) SERVING 168 STEAM ENHANCED WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (FEE A LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
3. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '-629, '-630, '-638, '-641, '-650, '-651, and '-1097 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by District Rule 2020, Section 6.6 (Amended March 21, 2002). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total number of component leaks shall not exceed the number specified in Rule 4401 at any one time. A leak is defined as a reading in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Well casings and casing vents shall be screened and inspected for leaks at least annually. Any leak shall be repaired in a manner consistent with the procedures specified in Section 5.3 of Rule 4401. [District Rule 1081 and 4401] Federally Enforceable Through Title V Permit
6. Leak inspection shall be performed using a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Reference Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
9. VOC content shall be determined using ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by ARB Method 432. [District Rule 4401, 6.2.3] Federally Enforceable Through Title V Permit
10. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions according to Table 2-4 (Oil and Gas Production Operations Average Emission Factors) of USEPA's protocol for Equipment Emission Estimates - EPA -453/R-95-017. [District Rule 2201] Federally Enforceable Through Title V Permit
12. VOC emission rate shall not exceed 203.0 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Formerly permit numbers S-1133-31-8 and S-1109-691-0.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-944-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 06 **TOWNSHIP:** 29S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL PRODUCTION OPERATION (#S B-1 & B-2) SERVING 71 STEAM ENHANCED WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (FEE B LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
3. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '-629, '-630, '-638, '-641, '-650, '-651, and '-1097 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by District Rule 2020, Section 6.6 (Amended March 21, 2002). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total number of component leaks shall not exceed the number specified in Rule 4401 at any one time. A leak is defined as a reading in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Well casings and casing vents shall be screened and inspected for leaks at least annually. Any leak shall be repaired in a manner consistent with the procedures specified in Section 5.3 of Rule 4401. [District Rule 1081 and 4401] Federally Enforceable Through Title V Permit
6. Leak inspection shall be performed using a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Reference Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
9. VOC content shall be determined using ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by ARB Method 432. [District Rule 4401, 6.2.3] Federally Enforceable Through Title V Permit
10. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions according to Table 2-4 (Oil and Gas Production Operations Average Emission Factors) of USEPA's protocol for Equipment Emission Estimates - EPA -453/R-95-017. [District Rule 2201] Federally Enforceable Through Title V Permit
12. VOC emission rate shall not exceed 106.8 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Formerly permit number S-1133-30-6 and S-1109-690-0.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-958-9

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 30 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL PRODUCTION OPERATION (#S C-1, C-2 & C-3) SERVING 95 STEAM DRIVE WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (FEE C LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
3. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '-629, '-630, '-638, '-641, '-650, '-651, and '-1097 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by District Rule 2020, Section 6.6 (Amended March 21, 2002). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total number of component leaks shall not exceed the number specified in Rule 4401 at any one time. A leak is defined as a reading in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Well casings and casing vents shall be screened and inspected for leaks at least annually. Any leak shall be repaired in a manner consistent with the procedures specified in Section 5.3 of Rule 4401. [District Rule 1081 and 4401] Federally Enforceable Through Title V Permit
6. Leak inspection shall be performed using a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Reference Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
9. VOC content shall be determined using ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by ARB Method 432. [District Rule 4401, 6.2.3] Federally Enforceable Through Title V Permit
10. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions according to Table 2-4 (Oil and Gas Production Operations Average Emission Factors) of USEPA's protocol for Equipment Emission Estimates - EPA -453/R-95-017. [District Rule 2201] Federally Enforceable Through Title V Permit
12. VOC emission rate shall not exceed 142.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Formerly permit number S-1133-29-7 and S-1109-689-0.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-996-9

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 02 **TOWNSHIP:** 29S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING 25 STEAM DRIVE WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (KCL 2)

## PERMIT UNIT REQUIREMENTS

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1. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
3. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-885, '-886, '-891, '-892, '-1040, '-1041, '-1042, '1043, '1044 and '-1045 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by District Rule 2020, Section 6.6 (Amended March 21, 2002). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total number of component leaks shall not exceed the number specified in Rule 4401 at any one time. A leak is defined as a reading in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Well casings and casing vents shall be screened and inspected for leaks at least annually. Any leak shall be repaired in a manner consistent with the procedures specified in Section 5.3 of Rule 4401. [District Rule 1081 and 4401] Federally Enforceable Through Title V Permit
6. Leak inspection shall be performed using a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Reference Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
9. VOC content shall be determined using ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by ARB Method 432. [District Rule 4401, 6.2.3] Federally Enforceable Through Title V Permit
10. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions according to Table 2-4 (Oil and Gas Production Operations Average Emission Factors) of USEPA's protocol for Equipment Emission Estimates - EPA -453/R-95-017. [District Rule 2201] Federally Enforceable Through Title V Permit
12. VOC emission rate shall not exceed 37.6 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Formerly permit number S-1109-111-0.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1007-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 20 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION WITH UP TO 170 STEAM DRIVE WELLS SERVED BY WELL VENT VAPOR CONTROL SYSTEM (MARCO A&B LEASE) (WILMAR LEASE): THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 170 STEAM ENHANCED WELLS

## PERMIT UNIT REQUIREMENTS

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1. Volatile Organic Compound (VOC) emissions shall not exceed 292.6 lb VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
3. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with District Rule 4401 (as amended January 15, 1998). [District Rule 4401] Federally Enforceable Through Title V Permit
4. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
6. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by District Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using EPA 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, table 2-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
10. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
11. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
13. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit
14. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
15. Formerly permit number S-1109-172-5.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1010-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 29 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL PRODUCTION OPERATION WITH UP TO 37 STEAM ENHANCED OIL PRODUCTION WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (PARKER LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with District Rule 4401 (as amended January 15, 1998). [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule & 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system, shall not exceed the number of leaks allowed by District Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Volatile organic compound (VOC) emission rate shall not exceed 63.7 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using EPA 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, table 2-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
10. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
11. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
13. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit
14. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
15. Formerly S-1109-175-3.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1011-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 29 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 42 STEAM ENHANCED WELLS - CLOSED WELL CASING VENTS, ROUTE PRODUCTION TO VAPOR CONTROLLED TANKS AND EXEMPT EQUIPMENT (POTOMAC LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule & 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by Rule 4401 at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Volatile organic compound (VOC) emission rate shall not exceed 72.3 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using EPA 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, table 2-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
10. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
11. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
12. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit
14. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
15. Formerly S-1109-176-5.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1012-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 28 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 126 STEAM ENHANCED WELLS (BISHOP A LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with District Rule 4401 (as amended January 15, 1998). [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule & 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by District Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Volatile organic compound (VOC) emission rate shall not exceed 216.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using EPA 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, table 2-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
10. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
11. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
13. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit
14. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
15. Formerly S-1109-184-4.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1013-8

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 28 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 73 STEAM ENHANCED WELLS (BISHOP B LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with District Rule 4401 (as amended January 15, 1998). [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule & 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by District Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Volatile organic compound (VOC) emission rate shall not exceed 125.7 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using EPA 1995 Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, table 2-4. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
10. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
11. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
13. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit
14. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
15. Formerly permit number S-1109-185-6.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1014-11

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 28 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 40 STEAM ENHANCED WELLS (STAUFFER LEASE)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these seam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '-629, '-630, '-638, '-641, '-650, '-651 and '-1097 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by Rule 4401 at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Volatile organic compound (VOC) emission rate shall not exceed 68.9 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
9. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
10. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
11. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
12. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
14. Formerly S-1109-201-1.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1035-13

**EXPIRATION DATE:** 02/28/2007

**SECTION:** 34 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

TEOR OPERATION WITH 34 STEAM-ENHANCED OIL PRODUCTION WELLS (SEC 34 N)

## PERMIT UNIT REQUIREMENTS

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1. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District NSR Rule and 4401] Federally Enforceable Through Title V Permit
2. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
3. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '-629, '-630, '-638, '-641, '-650, '-651, and '-1097 that are vented to an approved operational vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by District Rule 2020, Section 6.6 (Amended March 21, 2002). [District NSR Rule] Federally Enforceable Through Title V Permit
4. Total number of component leaks shall not exceed the number specified in Rule 4401 at any one time. A leak is defined as a reading in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
5. Well casings and casing vents shall be screened and inspected for leaks at least annually. Any leak shall be repaired in a manner consistent with the procedures specified in Section 5.3 of Rule 4401. [District Rule 1081 and 4401] Federally Enforceable Through Title V Permit
6. Leak inspection shall be performed using a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Reference Method 21. [District Rule 4401] Federally Enforceable Through Title V Permit
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
9. VOC content shall be determined using ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by ARB Method 432. [District Rule 4401, 6.2.3] Federally Enforceable Through Title V Permit
10. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Permittee shall maintain with the permit accurate fugitive component counts and resulting emissions according to Table 2-4 (Oil and Gas Production Operations Average Emission Factors) of USEPA's protocol for Equipment Emission Estimates - EPA -453/R-95-017. [District Rule 2201] Federally Enforceable Through Title V Permit
12. VOC emission rate shall not exceed 51.1 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Formerly permit number S-1109-357-1.

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1131-1048-9

**EXPIRATION DATE:** 02/28/2007

**SECTION:** SW21 **TOWNSHIP:** 28S **RANGE:** 28E

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION SERVING UP TO 35 STEAM ENHANCED WELLS (OJAI, MELWOOD AND SESAME LEASES)

## PERMIT UNIT REQUIREMENTS

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1. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District NSR Rule and Rule 4401] Federally Enforceable Through Title V Permit
2. Well vent vapor collection and control system shall be operated, maintained, and repaired in accordance with Rule 4401. [District Rule 4401] Federally Enforceable Through Title V Permit
3. Well casing vents shall remain closed at all times except during periods of actual service or repair. [District Rule 4401] Federally Enforceable Through Title V Permit
4. Fluids produced from these steam-enhanced wells with closed well casing vents and cyclic wells with closed casing vents shall be introduced only to tanks S-1131-598, '629, '630, '638, '641, '650, '651 and '-1097 that are vented to an approved vapor collection and control system achieving 99% control, or to permit exempt storage equipment as defined by Rule 2020, Section 6.6. (Amended March 21, 2002). [District NSR Rule and Rule 4401] Federally Enforceable Through Title V Permit
5. Total number of leaks from the well vent vapor control system shall not exceed the number of leaks allowed by Rule 4401 at any one time. [District Rule 4401] Federally Enforceable Through Title V Permit
6. Permittee shall maintain a current listing of all wells assigned to this permit. The listing shall be updated monthly and made readily available for District inspection upon request. [District Rules 1070 & District NSR Rule] Federally Enforceable Through Title V Permit
7. Well vent vapor control system Volatile organic compound (VOC) fugitive emission rate shall not exceed 28.1 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1] Federally Enforceable Through Title V Permit
9. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1] Federally Enforceable Through Title V Permit
10. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
11. Operator shall repair each leak within 15 calendar days of detection. The APCO may grant a 10 calendar day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1] Federally Enforceable Through Title V Permit
12. VOC content shall be determined using the latest revision of ASTM Method E168, E169, or E260 as applicable. [District Rule 4401, 6.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.3.2 and 4401, 6.3.3] Federally Enforceable Through Title V Permit
14. Formerly permit number S-1109-383-3.

These terms and conditions are part of the Facility-wide Permit to Operate.