

**Wyoming Department of Environmental Quality
Water Quality Division
WYPDES Program**

STATEMENT OF BASIS

Major Modification

APPLICANT NAME: Petro-Canada Resources USA, Inc.

MAILING ADDRESS: 3801 North Hwy 14-16
Gillette, WY 82718

FACILITY LOCATION: Wild Horse Creek CBM Facility, which is located in the SESW of Section 7, the SWNW of Section 8, the SWSW of Section 5, and the NENE of Section 6 in Township 50 North, Range 74 West; the NESE, , SWNE, and NENE of Section 14, the NESE of Section 11, the NWNW of Section 12, the NESW and SWNE of Section 7, the NWSE of Section 6, and the NESE, NENE, and SWNE of Section 2 in Township 50 North, Range 75 West; the NESE and NWNE of Section 31 in Township 51 North, Range 74 West; the SWSW and SWNW of Section 35, the NENE of Section 27, the SWNE of Section 24, the NESE, SESW, SWSE, and NWSW of Section 23, the NWNE of Section 21, the SENW and SENE of Section 16, the NENE and NENW of Section 15, the NWSE and NWSW of Section 10, the NWSE of Section 9, the NWSE and NENW of Section 3, the NWNW, SENW, and SWSE of Section 2, and the NWSE of Section 13 in Township 51 North, Range 75 West; the NWNW of Section 18 and the SESW of SWNW of Section 7 in Township 52 North, Range 74 West; and in the SESE and NWNW of Section 35, the NENE of Section 25, the NESE of Section 23, the SESW, NWSW, and NESW of Section 22, the SWNE of Section 16, the NESW, SWNW, NWNW, and NWNE of Section 13, the NWNW of Section 18, the SESW and SWNW of Section 7, and the SENE of Section 12 in Township 52 North, Range 75 West, all in Campbell County. The produced water will be discharged to the Wild Horse Creek drainage (class 3B), which is tributary to the Powder River (class 2ABWW). The permit establishes an irrigation monitoring point (IMP1), located as described in Table 1, Part I.B.13 of the following permit. The permit also establishes a total maximum daily flow limit of 16.16 MGD, and requires that the produced water being discharged by this facility originate in the Canyon, Anderson, Cook, and/or Wall coal seams.

NUMBER: WY0051985

The following Statement of Basis only includes information that has changed with this modification. For a complete Statement of Basis, please see previously issued modifications or renewals for this permit.

Upon approval of this major modification, the terms of permit WY0051985 are hereby modified as follows:

- 1. Raise the total recoverable arsenic limit in accordance with the antidegradation poily and new Chapter 1 standard.***
- 2. Remove the limits for total dissolved solids.***

3. *Replace total recoverable aluminum requirements with dissolved aluminum requirements.*
4. *Move outfall 070 approximately 4300 feet.*
5. *Move outfall 033 approximately 1900 feet.*

With the exception of items explicitly delineated in this major modification, all terms and conditions of Permit No. WY0051985, including Parts II and III of the renewed permit, shall remain unchanged and in full force.

Effluent Limits

Permit effluent limits are based on federal and state regulations and are effective as of the date of issuance. The permit requires that the pH must remain within 6.5 and 9.0 standard units. The permit establishes a total barium limit of 1800 µg/l, and a total arsenic limit of 8.4 µg/l. The permit also establishes a chlorides limit of 150 mg/l and a dissolved iron effluent limit of 1000 µg/l. These limits are based on chronic aquatic life standards for class 2AB and 3B waters, which are intended to protect for the above listed designated uses and reflect the application of the antidegradation provisions required under Chapter 1 of the Wyoming Water Quality Rules and Regulations.

Jason Thomas
Water Quality Division
Department of Environmental Quality
Drafted: May 5, 2006
Revised: October 19, 2006

Bob Alexander
Water Quality Division
Department of Environmental Quality
Drafted: January 16, 2008

AUTHORIZATION TO DISCHARGE UNDER THE
WYOMING POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, (hereinafter referred to as "the Act"), and the Wyoming Environmental Quality Act,

Petro-Canada Resources USA, Inc.

is authorized to discharge from the wastewater treatment facilities serving the

Wild Horse Creek CBM Facility

which is located in the

the SESW of Section 7, the SWNW of Section 8, the SWSW of Section 5, and the NENE of Section 6 in Township 50 North, Range 74 West; the NESE, , SWNE, and NENE of Section 14, the NESE of Section 11, the NWNW of Section 12, the NESW and SWNE of Section 7, the NWSE of Section 6, and the NESE, NENE, and SWNE of Section 2 in Township 50 North, Range 75 West; the NESE and NWNW of Section 31 in Township 51 North, Range 74 West; the SWSW and SWNW of Section 35, the NENE of Section 27, the SWNE of Section 24, the NESE, SESW, SWSE, and NWSW of Section 23, the NWNE of Section 21, the SENW and SENE of Section 16, the NENE and NENW of Section 15, the NWSE and NWSW of Section 10, the NWSE of Section 9, the NWSE and NENW of Section 3, the NWNW, SENW, and SWSE of Section 2, and the NWSE of Section 13 in Township 51 North, Range 75 West; the NWNW of Section 18 and the SESW of SWNW of Section 7 in Township 52 North, Range 74 West; and in the SESE and NWNW of Section 35, the NENE of Section 25, the NESE of Section 23, the SESW, NWSW, and NESW of Section 22, the SWNE of Section 16, the NESW, SWNW, NWNW, and NWNE of Section 13, the NWNW of Section 18, the SESW and SWNW of Section 7, and the SENE of Section 12 in Township 52 North, Range 75 West, all in Campbell County,

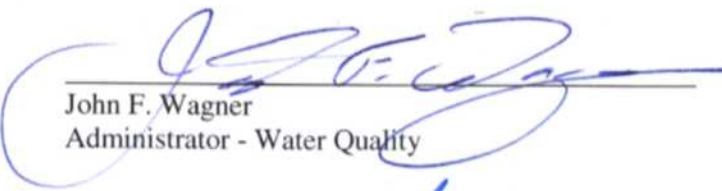
to receiving waters named

Wild Horse Creek drainage (class 3B), which is tributary to the Powder River (class 2ABWW)

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II and III hereof.

This permit renewal shall become effective on the date of signature by the Director of the Department of Environmental Quality.

This permit and the authorization to discharge shall expire December 31, 2008, at midnight.



John F. Wagner
Administrator - Water Quality

Date

4/21/08



John V. Corra
Director - Department of Environmental Quality

Date

4/24/08

PART IA. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effective immediately and lasting through December 31, 2008, the quality of effluent discharged by the permittee shall, at a minimum, meet the limitations set forth below. The permittee is authorized to discharge from outfalls(s) serial numbers 001-018, 020, 021, 026, 033, 035, 037-070.

- Such discharges shall be limited as specified below:

Effluent Limits

<u>Effluent Characteristic</u>	<u>Daily Maximum Outfall</u>
Chlorides, mg/l	150
Dissolved Iron, µg/l	1000
pH, standard units	6.5 – 9.0
Specific Conductance, micromhos/cm	2350
Sodium Adsorption Ratio, calculated as unadjusted ratio	15
Total Arsenic, µg/l	8.4
Total Flow, MGD*	16.16
Total Barium, µg/l	1800

*Total flow is to be calculated as the sum of all discharge from all permitted outfalls. The permit requires that the produced water being discharged by this facility originate in one or more of the following formations: the Canyon, Anderson, Cook, and/or Wall coal seams.

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units in any single grab sample.

Information gathered from the water quality monitoring stations and irrigation monitoring points may result in modification of the permit, in accordance with Part III.A.3 of the permit below, to protect existing uses on the tributary and the mainstem. In addition, WQD may re-open and modify this permit, in accordance with Part III.A.3, in the event that additional or more stringent conditions are determined by WQD to be necessary for control of erosion downstream of the discharges within the Wild Horse Creek drainage.

There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the discharge cause formation of a visible sheen or visible hydrocarbon deposits on the bottom or shoreline of the receiving water.

All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.

2. Discharges shall be monitored by the permittee as specified below:

a. Monitoring of the initial discharge

Note: The initial monitoring requirement described below will not apply to outfalls which have already undergone sampling for these parameters under previous permit coverage.

Within 60 days of commencement of discharge following issuance of this permit renewal, a sample shall be collected from each outfall and analyzed for the constituents specified below, at the required detection limits. Within 120 days of commencement of discharge, a summary report on the produced water must be submitted to the Wyoming Department of Environmental Quality and the U.S. EPA Region 8 at the addresses listed below. This summary report must include the results and detection limits for each of the constituents listed below. In addition, the report must include written notification of the established location of the discharge point (refer to Part I.B.11). This notification must include a confirmation that the location of the established discharge point(s) is within 1,510 feet of the location of the identified discharge point(s), is within the same drainage, and discharges to the same landowner's property as identified on the original application form. The legal description and location in decimal degrees of the established discharge point(s) must also be provided. After receiving the monitoring results for the initial discharge, the effluent limits and monitoring requirements established in this permit may be modified.

<u>Parameter*</u> (See notes following the table on chemical states)	<u>Required Detection Limits and Required Units</u>
Alkalinity, Total	1 mg/l as CaCO ₃
Aluminum, Dissolved	50 µg/l
Arsenic, Total	1 µg/l
Barium, Total	100 µg/l
Bicarbonate	10 mg/l
Cadmium, Dissolved	5 µg/l
Calcium, Dissolved	50 µg/l, report as mg/l
Chlorides	5 mg/l
Copper, Dissolved	10 µg/l
Dissolved Solids, Total	5 mg/l
Fluoride, Dissolved	0.1 mg/l
Hardness, Total	10 mg/l as CaCO ₃
Iron, Dissolved	50 µg/l
Lead, Dissolved	2 µg/l
Magnesium, Dissolved	100 µg/l, report as mg/l
Manganese, Dissolved	50 µg/l
Mercury, Dissolved	1 µg/l
Nickel, Dissolved	5 µg/l

Parameter* (See notes following the table on chemical states)	Required Detection Limits and Required Units
pH	to 0.1 pH unit
Radium 226, Total	0.2 pCi/l
Selenium, Total Recoverable	5 µg/l
Sodium Adsorption Ratio	Calculated as unadjusted ratio
Sodium, Dissolved	100 µg/l, report as mg/l
Specific Conductance	5 micromhos/cm
Sulfates	10 mg/l
Zinc, Dissolved	50 µg/l

TOTAL: Value is expressed in terms of total recoverable metal in the water column.

NOTE: Except for aquatic life values for metals and where otherwise indicated, the values given refer to the total recoverable (dissolved plus suspended) amount for each substance. For the aquatic life values for metals, the values refer to the dissolved amount.

DISSOLVED: Value is based on the dissolved amount which is the amount that will pass through a 0.45 µm membrane filter prior to acidification to pH 1.5 - 2.0 with nitric acid.

Initial monitoring reports are to be sent to the following addresses:

Planning and Targeting Program, 8ENF-PT
Office of Enforcement, Compliance, and Environmental Justice
U.S. EPA Region 8
1595 Wynkoop Street,
Denver, CO 80202-1129

and

Wyoming Department of Environmental Quality
Water Quality Division
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002

b. Routine monitoring End of Pipe – 001-018, 020, 021, 026, 033, 035, 037-070

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected at the indicated frequencies. The first routine monitoring for the time frame during which the monitoring of initial discharge occurs will, at a minimum, consist of flow measurements for the duration of the six-month monitoring time frame. Monitoring will be based on semi-annual time frames, from January through June, and from July through December.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Bicarbonate (mg/l)	Once every six months	Grab
Dissolved calcium (mg/l)	Monthly	Grab

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Chloride (mg/l)	Annually	Grab
Dissolved Iron ($\mu\text{g/l}$)	Once every six months	Grab
Dissolved Magnesium (mg/l)	Monthly	Grab
pH (standard units)	Once Every Six Months	Grab
Dissolved Sodium (mg/l)	Monthly	Grab
Sodium Adsorption Ratio (unadjusted)	Monthly	Calculated
Specific Conductance (micromhos/cm)	Monthly	Grab
Total Alkalinity (mg/l)	Once Every Six Months	Grab
Total Arsenic ($\mu\text{g/l}$)	Annually	Grab
Total Barium ($\mu\text{g/l}$)	Once every six months	Grab
Total Flow - (MGD)	Monthly	Continuous
Total Recoverable Aluminum, ($\mu\text{g/l}$)	Once Every Six Months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall of the final treatment unit which is located out of the natural drainage and prior to admixture with diluent waters.

c. Irrigation Monitoring Points (IMP1)

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected at the indicated frequencies when water discharged from the outfalls reaches the irrigation monitoring point. Monitoring will be based on monthly time frames and reported semi-annually.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Dissolved Calcium, mg/l	Monthly	Grab
Dissolved Magnesium, mg/l	Monthly	Grab
Dissolved Sodium, mg/l	Monthly	Grab
Sodium Adsorption Ratio, unitless	Monthly	Calculated
Specific Conductance, $\mu\text{mhos/cm}$	Monthly	Grab
Bicarbonate, mg/l as CaCO_3	Monthly	Grab
Flow, MGD	Monthly	Instantaneous

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the irrigation monitoring points which are located as described in Table 1 of the permit below.

The permit requires daily monitoring on Wild Horse Creek below the outfalls in order to determine whether effluent discharged from the outfalls reaches the established irrigation monitoring points (IMP1 listed in Table 1 of the permit below). Daily monitoring is necessary because the permit establishes different sampling and analysis requirements based on whether the effluent reaches the irrigation monitoring point. Once effluent flow at the irrigation monitoring point has been documented within a sampling month, then weekly monitoring of flow at the IMP is required for the remainder of that calendar month. At the beginning of each calendar month, the monitoring frequency will revert to daily until such time as effluent flow occurs at the irrigation monitoring point and a sample is collected to represent effluent quality for irrigation monitoring point constituents. Results are to be reported twice-yearly and if no effluent from this facility reaches the irrigation monitoring point during an entire sampling month, then "no discharge" is to be reported for the IMP that month. The IMP is not a compliance point. It is intended only as a location to gather downstream water quality data.

d. Water Quality Monitoring Stations TRIB1, UPR, DPR

For the duration of the permit, at a minimum, samples for the constituents described below shall be collected at the indicated frequencies. Monitoring will be based on monthly time frames, and reported semiannually.

<u>Parameter</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Dissolved Calcium (mg/l)	Monthly	Grab
Dissolved Magnesium (mg/l)	Monthly	Grab
Dissolved Sodium (mg/l)	Monthly	Grab
Sodium Adsorption Ratio (calculated as unadjusted ratio)	Monthly	Calculated
Specific Conductance (micromohs/cm)	Monthly	Grab
Flow* (MGD)	Monthly	Instantaneous

*The permittee is only required to monitor and report flow at the tributary monitoring station on Wild Horse Creek (TRIB1). The permittee is not required to monitor or report flow data at the mainstem water quality monitoring stations (UPR and DPR), see Table 1, Part I.B.13 of the permit below for water quality monitoring station location descriptions.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: designated water quality monitoring stations identified as TRIB1, UPR, and DPR in Table 1, Part I.B.13. Established water quality monitoring stations on the mainstem are to be located outside the mixing zone with the tributary and the mainstem. Monthly water quality samples are to be collected at all three water quality monitoring stations when effluent from this CBM facility reaches the TRIB1 station on Wild Horse Creek. If flow occurs at the TRIB1 station during a given monthly monitoring period, but this CBM facility did not contribute to that flow, the permittee will report "did not contribute" in the discharge monitoring reports for that monthly monitoring period. Under such circumstances, sampling is not required at the three water quality monitoring stations, and it will be the responsibility of the permittee to demonstrate that the effluent from this

facility did not contribute to the flow occurring at the TRIB1 station. If no flow at all occurs at the TRIB1 station for an entire monthly monitoring period, then “no flow” is to be reported and samples need not be collected at the three water quality monitoring stations for that monthly monitoring period.

At the designated water quality monitoring stations, monitoring will be required for calcium, magnesium, sodium, sodium adsorption ratio and specific conductance. Information gathered from the water quality monitoring stations may result in modification of the permit to protect existing uses on the tributary and mainstem.

e. Headcut Monitoring and Mitigation

The permittee shall monitor identified headcuts measuring two or more feet from the top of the headcut to the channel bottom, located between the outfall(s) and the Powder River. On an annual basis, these headcut(s) must be evaluated by the permittee to determine if there has been a change in either the lateral movement, or the vertical drop in the identified headcuts. Movement of headcuts will be determined using a stationary marker in the field, placed by the permittee at the initial location of the headcut. If the headcut has moved more than four (4) feet, either laterally or vertically, within a calendar year, the permittee must submit for review and approval a mitigation plan. Within three months of approval of the mitigation plan, the plan must be implemented. If the plan is not implemented, WQD may require the permittee to cease discharge from the contributing outfalls authorized by this permit until the plan is implemented. In addition to the minimum annual headcut monitoring requirements noted above for the permittee, headcuts may also be reported to WQD early at any time, and by any party.

Headcuts which are already being mitigated in conjunction with separate BLM requirements will not require a mitigation plan to be submitted in association with this permit. In addition, if the permittee demonstrates that their effluent has not reached a particular downstream headcut area, then the permittee will not be required to submit a mitigation plan for that headcut. In the absence of such a demonstration from the permittee, WQD will assume that the effluent is contributing to the headcut. If a downstream headcut is located on private property and is not contributing to a water quality violation or impairment, the upstream discharger(s) may be released from obligation to monitor and/or mitigate that headcut in the event that a written waiver is submitted to WQD from the affected landowner. The written waiver must identify on a map the specific headcut in question, and list the latitude, longitude, quarter/quarter, section, township, and range. The written waiver must also be signed by the affected landowner. In the absence of such a written waiver from affected downstream landowner(s), the permittee is responsible for monitoring and/or mitigation of all identified downstream headcuts between the outfall(s) and the Powder River as specified above. In the event that the permittee is not granted access to downstream private property for purposes of monitoring and/or mitigation of headcuts, this permit does not require monitoring and/or mitigation of headcuts by the permittee on that particular property.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or

is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and approval by the permit issuing authority.

2. Reporting

Results of initial monitoring, including the date the discharge began, shall be summarized on a Monitoring Report Form for Monitoring of Initial Discharge and submitted to the state water pollution control agency at the address below postmarked no later than 120 days after the commencement of discharge.

Results of routine end of pipe, irrigation monitoring point, and water quality station monitoring during the previous six (6) months shall be summarized and reported semiannually on a Discharge Monitoring Report Form (DMR). If the discharge is intermittent, the date the discharge began and ended must be included. The information submitted on the first semiannual DMR shall contain a summary of flow measurements and any additional monitoring conducted subsequent to the submittal of the initial monitoring report. When required, whole effluent toxicity (biomonitoring) results must be reported on the most recent version of EPA Region VIII's Guidance for Whole Effluent Reporting. Monitoring reports must be submitted to the state water pollution control agency at the following address postmarked no later than the 15th day of the second month following the completed reporting period. The first report following the issuance of this renewal is due on August 15, 2008.

Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the Signatory Requirements contained in Part II.A.11.

Wyoming Department of Environmental Quality
Water Quality Division
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002
Telephone: (307) 777-7781

If no discharge occurs during the reporting period, "no discharge" shall be reported. If discharge is intermittent during the reporting period, sampling shall be done while the facility is discharging.

3. Definitions

- a. The "monthly average" shall be determined by calculating the arithmetic mean (geometric mean in the case of fecal coliform) of all composite and/or grab samples collected during a calendar month.
- b. The "weekly average" shall be determined by calculating the arithmetic mean (geometric mean in the case of fecal coliform) of all composite and/or grab samples collected during any week.
- c. The "daily maximum" shall be determined by the analysis of a single grab or composite sample.
- d. "MGD", for monitoring requirements, is defined as million gallons per day.

- e. "Net" value, if noted under Effluent Characteristics, is calculated on the basis of the net increase of the individual parameter over the quantity of that same parameter present in the intake water measured prior to any contamination or use in the process of this facility. Any contaminants contained in any intake water obtained from underground wells shall not be adjusted for as described above and, therefore, shall be considered as process input to the final effluent. Limitations in which "net" is not noted are calculated on the basis of gross measurements of each parameter in the discharge, irrespective of the quantity of those parameters in the intake waters.
- f. A "composite" sample, for monitoring requirements, is defined as a minimum of four grab samples collected at equally spaced two hour intervals and proportioned according to flow.
- g. An "instantaneous" measurement for monitoring requirements is defined as a single reading, measurement, or observation.
- h. A "pollutant" is any substance or substances which, if allowed to enter surface waters of the state, causes or threatens to cause pollution as defined in the Wyoming Environmental Quality Act, Section 35-11-103.
- i. "Total Flow" is the total volume of water discharged, measured on a continuous basis and reported as a total volume for each month during a reporting period. The accuracy of flow measurement must comply with Part III.A.1.

4. Test Procedures

Test procedures for the analysis of pollutants, collection of samples, sample containers, sample preservation, and holding times, shall conform to regulations published pursuant to 40 CFR, Part 136, unless other test procedures have been specified in this permit.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling;
- b. The dates and times the analyses were performed;
- c. The person(s) who performed the analyses and collected the samples;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine the results.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of

the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

7. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the administrator at any time. Data collected on site, copies of Discharge Monitoring Reports and a copy of this WYPDES permit must be maintained on site during the duration of activity at the permitted location.

8. Penalties for Tampering

The Act provides that any person who falsifies, tampers with or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or both.

9. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.

10. Facility Identification

All facilities discharging produced water shall be clearly identified with an all-weather sign posted at each outfall and flow monitoring locations (points of compliance). This sign shall, as a minimum, convey the following information:

- a. The name of the company, corporation, person(s) who holds the discharge permit, and the WYPDES permit number;
- b. The contact name and phone number of the person responsible for the records associated with the permit;
- c. The name of the facility (lease, well number, etc.) and the outfall number as identified by the discharge permit.

11. Identification and Establishment of Discharge Points

According to 40 CFR 122.21(k)(1), the permittee shall identify the expected location of each discharge point on the appropriate WYPDES permit application form. The location of the discharge point must be identified to within an accuracy of 15 seconds. This equates to a distance of 1,510 feet.

Public notice is not required if the location of the established discharge point is within 1,510 feet of the location of the discharge point originally identified on the permit application. In addition, the discharge must be within the same drainage and must

discharge to the same landowner's property as identified on the original application form. If the three previously stated requirements are not satisfied, modification of the discharge point location(s) constitutes a major modification of the permit as defined in Part I.B.12. The permittee shall provide written notification of the establishment of each discharge point in accordance with Part I.A.2.a above.

12. Location of Discharge Points and Irrigation Monitoring Points

As of the date of permit issuance, authorized points of discharge were as follows:

SEE TABLE 1 FOR A LIST OF OUTFALL LOCATIONS

13. Location of water quality monitoring stations

As of the date of issuance, authorized water quality monitoring stations were as follows:

SEE TABLE 1 FOR A LIST OF WATER QUALITY STATIONS

Table 1: WY0051985 - Wild Horse Creek CBM Facility

Out-Fall	Previous Outfall ID	Qtr/Qtr	SECT	TWP (N)	RNG (W)	LATITUDE	LONGITUDE	Drainage / Description	Ground-water approval required prior to Discharge?	Reservoir Bond to WDEQ Required Prior to Discharge?
001	WY0051985-008	NESE	14	50	75	44.30880	-105.83470	Discharges to on-channel reservoir "41-14" in unnamed ephemeral tributary to Sand Draw, trib to Wild Horse Creek	NO	NO
002	WY0051985-007	SWNE	14	50	75	44.31090	-105.84240	Discharges to on-channel reservoir "EX13-14" in unnamed ephemeral tributary to Sand Draw, trib to Wild Horse Creek	NO	NO
003	WY0051985-006	NENE	14	50	75	44.31340	-105.83520	Discharges to on-channel reservoir "EX11-14" in unnamed ephemeral tributary to Sand Draw, trib to Wild Horse Creek	NO	NO
004	WY0051985-002	NENE	14	50	75	44.31600	-105.83550	Discharges to on-channel reservoir "14-2" in unnamed ephemeral tributary to Sand Draw, trib to Wild Horse Creek	NO	NO
005	WY0051985-003	NESE	11	50	75	44.32170	-105.83710	Discharges to on-channel reservoir "11-5" in unnamed ephemeral tributary to Sand Draw, trib to Wild Horse Creek	NO	NO
006	WY0051985-005	NWNW	12	50	75	44.32800	-105.83280	Discharges to on-channel reservoir "12-2" in unnamed ephemeral tributary to Jeffers Draw, trib to Wild Horse Creek	NO	NO
007	WY0051985-006	NESW	7	50	75	44.32110	-105.80730	Discharges directly to unnamed ephemeral tributary of Sand Draw, trib to Wild Horse Creek	N/A	N/A
008*	WY0039870-001	SE SW	7	50	74	44.31860	-105.80440	Discharges directly to Sand Draw, trib to Wild Horse Creek	N/A	N/A
009	WY0051985-005	SWNE	7	50	75	44.32800	-105.79900	Discharges directly to unnamed ephemeral tributary of Sand Draw, trib to Wild Horse Creek	N/A	N/A
010	WY0039870-002	SWNW	8	50	74	44.32580	-105.78940	Discharges directly to Wild Horse Creek	N/A	N/A
011*	WY0039870-003	SWSW	5	50	74	44.33350	-105.79080	Discharges directly to Wild Horse Creek	N/A	N/A
012	WY0051985-004	NWSE	6	50	75	44.33750	-105.80130	Discharges directly to unnamed ephemeral tributary of Wild Horse Creek	N/A	N/A
013*	WY0039870-004	NE NE	6	50	74	44.34470	-105.79820	Discharges directly to Wild Horse Creek	N/A	N/A
014*	WY0039870-011	NE SE	31	51	74	44.35240	-105.79700	Discharges directly to Wild Horse Creek	N/A	N/A
015*	WY0039870-012	NWNE	31	51	74	44.36060	-105.80210	Discharges directly to Wild Horse Creek	N/A	N/A
016*	WY0039870-009	NESE	2	50	75	44.33600	-105.83800	Discharges directly to Jeffers Draw, trib to Wild Horse Creek	N/A	N/A
017*	WY0039870-008	NE NE	2	50	75	44.34250	-105.83550	Discharges to on-channel reservoir "Throne 2-11" in Jeffers Draw, trib to Wild Horse Creek	NO	NO
018	WY0051985-003	SWNE	2	50	75	44.34130	-105.84260	Discharges directly to unnamed ephemeral tributary of Jeffers Draw, trib to Wild Horse Creek	N/A	N/A

Table 1 Continued: WY0051985 - Wild Horse Creek CBM Facility

Out-Fall	Previous Outfall ID	Qtr/Qtr	SECT	TWP (N)	RNG (W)	LATITUDE	LONGITUDE	Drainage / Description	Ground-water approval required prior to Discharge?	Reservoir Bond to WDEQ Required Prior to Discharge?
020*	WY0051985-025	SWSW	35	51	75	44.35060	-105.84790	Discharges directly to Montgomery Draw, trib to Wild Horse Creek	N/A	N/A
021	WY0051985-031	SWNW	35	51	75	44.35430	-105.84990	Discharges directly to unnamed ephemeral tributary of Montgomery Draw, trib to Wild Horse Creek	N/A	N/A
026*	WY0051985-017	SWSE	26	51	75	44.37330	-105.84120	Discharges directly to unnamed ephemeral tributary of Montgomery Draw, trib to Wild Horse Creek	N/A	N/A
033*	WY0051985-013	SWNE	24	51	75	44.38235	-105.81995	Discharges directly to unnamed ephemeral tributary of Montgomery Draw, trib to Wild Horse Creek	N/A	N/A
035	WY0051985-010	NESE	23	51	75	44.37940	-105.83470	Discharges directly to unnamed ephemeral tributary of Cedar Draw, trib to Wild Horse Creek	N/A	N/A
037	WY0051985-009	SESW	23	51	75	44.37780	-105.84510	Discharges directly to unnamed ephemeral tributary of Cedar Draw, trib to Wild Horse Creek	N/A	N/A
038*	WY0051985-008	NWSW	23	51	75	44.37740	-105.84790	Discharges to on-channel reservoir "EX23-6" in unnamed ephemeral tributary to Cedar Draw, trib to Wild Horse Creek	NO	NO
039*	WY0051985-007	NENE	22	51	75	44.37550	-105.85730	Discharges to on-channel reservoir "P2172S" in unnamed ephemeral tributary to Cedar Draw, trib to Wild Horse Creek	NO	NO
040	WY0051985-063	NWNE	21	51	75	44.38800	-105.87880	Discharges directly to unnamed ephemeral tributary of Cedar Draw, trib to Wild Horse Creek	N/A	N/A
041*	WY0051985-042	SENW	16	51	75	44.39720	-105.88400	Discharges to on-channel reservoir "P16-5" in unnamed ephemeral tributary to Scotty Draw, trib to Wild Horse Creek	NO	NO
042	WY0051985-043	SWNE	16	51	75	44.39950	-105.87960	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A
043	WY0051985-045	NENW	15	51	75	44.40230	-105.86760	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A
044*	WY0051985-048	NENE	15	51	75	44.40360	-105.85430	Discharges to on-channel reservoir "Mooney 10-5" in unnamed ephemeral tributary to Scotty Draw, trib to Wild Horse Creek	NO	NO
045	WY0051985-058	NWSE	10	51	75	44.41040	-105.86110	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A
046	WY0051985-057	NWSW	10	51	75	44.40920	-105.87140	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A
047	WY0051985-056	NWSE	9	51	75	44.41090	-105.88260	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A
048*	WY0051985-061	NWSE	3	51	75	44.42230	-105.86070	Discharges directly to unnamed ephemeral tributary of Scotty Draw, trib to Wild Horse Creek	N/A	N/A

Table 1 Continued: WY0051985 - Wild Horse Creek CBM Facility

Out-Fall	Previous Outfall ID	Qtr/Qtr	SECT	TWP (N)	RNG (W)	LATITUDE	LONGITUDE	Drainage / Description	Ground-water approval required prior to Discharge?	Reservoir Bond to WDEQ Required Prior to Discharge?
049*	WY0051985-054	NENW	3	51	75	44.42990	-105.86480	Discharges to on-channel reservoir "P3-2" in unnamed ephemeral tributary to Scotty Draw, trib to Wild Horse Creek	NO	NO
050*	WY0051985-052	NWNW	2	51	75	44.43230	-105.85130	Discharges to on-channel reservoir "P2-1" in unnamed ephemeral tributary to Scotty Draw, trib to Wild Horse Creek	NO	NO
051*	WY0051985-051	SENW	2	51	75	44.42630	-105.84650	Discharges to on-channel reservoir "P2-2" in unnamed ephemeral tributary to Scotty Draw, trib to Wild Horse Creek	NO	NO
052*	WY0051985-050	SWSE	2	51	75	44.42200	-105.84120	Discharges to on-channel reservoir "Mooney P2-4" in unnamed ephemeral tributary to Wild Horse Creek	NO	NO
053	WY0039853-045	SESE	35	52	75	44.43500	-105.83640	Discharges directly to unnamed ephemeral tributary of Wild Horse Creek	N/A	N/A
054*	WY0039853-008	NWNW	35	52	75	44.44530	-105.85230	Discharges directly to Wild Horse Creek	N/A	N/A
055*	WY0039853-003	NENE	25	52	75	44.46090	-105.81360	Discharges to on-channel reservoir "Eaton 25-1 & 30-2" in unnamed ephemeral tributary to Twentymile Creek, trib to Wild Horse Creek	NO	NO
056*	WY0039853-029	NESE	23	52	75	44.46950	-105.83520	Discharges to on-channel reservoir "P23-4" in unnamed ephemeral tributary to Twentymile Creek, trib to Wild Horse Creek	NO	NO
057	N/A	SESW	22	52	75	44.46622	-105.86580	Discharges to on-channel reservoir "P27-21" in unnamed ephemeral tributary to Wild Horse Creek	NO	NO
058*	WY0039853-025	NWSW	22	52	75	44.46700	-105.87150	Discharges to on-channel reservoir "P22-8" in unnamed ephemeral tributary to Wild Horse Creek	NO	NO
059*	WY0039853-018	NWSW	22	52	75	44.46920	-105.87330	Discharges to on-channel reservoir "P21-1" in unnamed ephemeral tributary to Wild Horse Creek	NO	NO
060*	WY0039853-019	NENW	22	52	75	44.47550	-105.86560	Discharges to on-channel reservoir "P22-2" in unnamed ephemeral tributary to Wild Horse Creek	NO	NO
061*	WY0039870-010	SWNE	16	52	75	44.48750	-105.88100	Discharges directly to Twentymile Creek, tributary to Wild Horse Creek	N/A	N/A
062	N/A	NESW	13	52	75	44.48557	-105.82637	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
063	N/A	SWNW	13	52	75	44.48790	-105.83125	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
064	WY0039853-002	NWNW	13	52	75	44.49330	-105.82960	Discharges directly to Twentymile Creek, tributary to Wild Horse Creek	N/A	N/A
065*	WY0039853-001	NW NE	13	52	75	44.49120	-105.82040	Discharges directly to Twentymile Creek, tributary to Wild Horse Creek	N/A	N/A

Table 1 Continued: WY0051985 - Wild Horse Creek CBM Facility

Out-Fall	Previous Outfall ID	Qtr/Qtr	SECT	TWP (N)	RNG (W)	LATITUDE	LONGITUDE	Drainage / Description	Ground-water approval required prior to Discharge ?	Reservoir Bond to WDEQ Required Prior to Discharge ?
066	N/A	NWNW	18	52	74	44.49213	-105.81029	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
067	N/A	SESW	7	52	74	44.49399	-105.80468	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
068	N/A	SWNW	7	52	74	44.50307	-105.81186	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
069	N/A	SENE	12	52	75	44.50402	-105.81784	Discharges directly to unnamed ephemeral tributary of Twentymile Creek, trib to Wild Horse Creek	N/A	N/A
070	N/A	NESW	13	51	75	44.40383	-105.82618	Discharges to Wild Horse Creek	YES	NO
IMP1	N/A	SWNE	17	52	75	44.48780	-105.80150	Irrigation Monitoring Point on Wild Horse Creek	N/A	N/A
TRIB1	N/A	SESE	16	54	77	44.65046	-106.12156	Tributary monitoring station on Wild Horse Creek	N/A	N/A
UPR	N/A	SWSE	16	54	77	44.65038	-106.12778	Upstream Powder River monitoring station (above Wild Horse Creek)	N/A	N/A
DPR	N/A	NWSE	34	55	77	44.69696	-106.11236	Downstream Powder River monitoring station (below Wild Horse Creek)	N/A	N/A

* These outfall locations have been verified by WDEQ GPS field data using NAD 83.

Requests for modification of the above list will be processed as follows. If the requested modification satisfies the definition of a minor permit modification as defined in 40 CFR 122.63 modifications will not be required to be advertised in a public notice. A minor modification constitutes a correction of a typographical error, increase in monitoring and/or reporting, revision to an interim compliance schedule date, change in ownership, revision of a construction schedule for a new source discharger, deletion of permitted outfalls, and/or the incorporation of an approved local pretreatment program.

A request for a minor modification must be initiated by the permittee by completing the form titled Wyoming Pollutant Discharge Elimination System Permit Modification Application For Coal Bed Methane. Incomplete application forms will be returned to the applicant.

The outfalls listed in Table 1 (located at the end of Part I) may be moved from the established location without submittal of a permit modification application provided all of the following conditions are satisfied:

1. The new outfall location is within 2640 feet of the established outfall location.

2. The new outfall location is within the same drainage or immediate permitted receiving waterbody.
3. There is no change in the affected landowners.
4. Notification of the change in outfall location must be provided to the WYPDES Permits Section on a form provided by the WQD Administrator within 10 days of the outfall location change. The form must be provided in duplicate and legible maps showing the previous and new outfall location must be attached to the form.

Moving an outfall location without satisfying the four above listed conditions will be considered a violation of this permit and subject to full enforcement authority of the WQD.

An outfall relocation as described above will not be allowed if the new outfall location is less than one mile from the confluence of a Class 2 waterbody and the dissolved iron limits established in the permit for the outfall are based upon Class 3 standards.

C. RESERVOIR / IMPOUNDMENT REQUIREMENTS

1. Groundwater Monitoring Beneath Impoundments:

Table 1 of the permit above identifies which outfalls (if any) are designed to discharge into impoundments that are subject to groundwater monitoring requirements established in the latest version of the Water Quality Division guideline "*Compliance Monitoring for Groundwater Protection Beneath Unlined Coalbed Methane Produced Water Impoundments.*" These specified outfalls are not authorized to discharge until a written groundwater compliance approval has been granted by the Groundwater Pollution Control Program of the Water Quality Division. A groundwater compliance approval will consist of either a final approved groundwater compliance monitoring plan, or written authorization for an exemption thereof. Once an impoundment has been granted a written groundwater compliance approval, the contributing outfall(s) to that reservoir may commence discharge.

2. Reclamation Performance Bonds for On-Channel Reservoirs:

Table 1 of the permit above also identifies which outfalls (if any) are designed to discharge into impoundments that are subject to WDEQ bonding requirements, as set forth in the latest version of the Water Quality Division guideline "*Implementation Guidance for Reclamation and Bonding of On-Channel Reservoirs That Store Coalbed Natural Gas Produced Water.*" These specified outfalls are not authorized to discharge until the associated reservoir reclamation bond is approved by WDEQ. Once the reservoir reclamation bond is approved by WDEQ, the contributing outfall(s) to that reservoir may commence discharge.

Any discharge into an above-listed impoundment which has not been secured by the required WDEQ-approved bond, or which has not been granted the required groundwater compliance approval, will constitute a violation of this permit, and may result in enforcement action from the Water Quality Division.