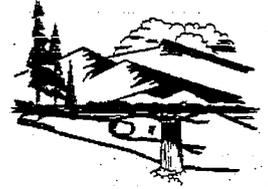




Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 26, 2007

Robert Kudelski, President
Worthington Group of Wyoming, LLC.
P.O. Box 236
Wapiti, WY 82450

RE: Ptarmigan Subdivision Treated Water Line Extension, Permit Number: 07-851,
Sections 8, 15 & 22, T53N, R101W, Park County

Dear Mr. Kudelski:

This project involves the installation of approximately 2,576 linear feet of 2-inch water line to potential serve 18 residential taps for indoor use only. This system will connect to the Copperleaf Subdivision system at two points to form a looped water system. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

If you have any questions, please contact me at 307-335-6961.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Jeremy Easum, P.E., Sage Civil Engineering, 2824 Big Horn Ave., Cody, WY 82414

encl: General Permit For a Public Water Distribution System



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 07-852

REFERENCE PERMIT NO. 07-402

NSU Wastewater System: Phase II – Holding Tanks / Time Extension

This permit hereby authorizes the applicant:

Alpine Junction, LLC
Attn. Michael T. Halpin, V.P. of Meridian Group, Inc., as Mgr. AJLLC
P.O. Box 610
Jackson, Wyoming 83001

to construct, install or modify temporary sewage holding tanks according to the procedures and conditions of the application numbers 07-402, and 07-852. The facility is located in the NW¼ NW¼ of Section 29, T37N, R118W, in the county of Lincoln, in the State of Wyoming. All operation of the holding tank configuration shall be discontinued by November 1, 2008.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

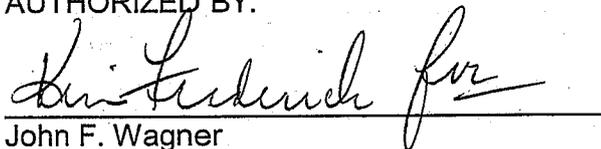
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

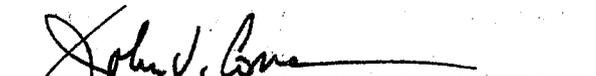
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3. The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office at 122 West 25th Street, Herschler Building - 4W, Cheyenne, Wyoming 82002, (307) 777-7781, or FAX (307) 777-5973, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District office a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



John F. Wagner
Administrator
Water Quality Division



John V. Corra
Director
Department of Environmental Quality

12/21/07
Date of Issuance

RLE/cs/7-1073

cc: Mark Barron, Mayor Town of Jackson
John Passehl, WQD, GPC, UIC Coordinator
Mark Baron, WQD, SW District Supervising Engineer

STATEMENT OF BASIS

1. Permit Number: 07-852 ; Reference Permit Number: 07-402
2. Application reviewed for compliance with the following regulations :
Chapter(s) 3, and 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?

COMPLY: YES
4. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3?

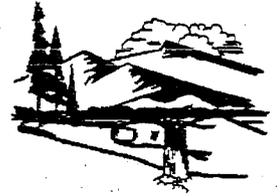
Section 17 Required: NO
5. Documentation of Statement of Basis: The archives file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, P.E., rewald@state.wy.us, Consulting Engineer, and completed on December 21, 2007. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 21, 2007

Holden Land Co. LLC
18520 67th Ave. NE
Hot Springs, WY 82443

RE: Holden Residential Septic System – Small Waste Water System – Permit Number 07-853, NW ¼, Section 9, T43N, R96W, Hot Springs County

Dear Holdens:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the new shop with a 375 sq ft leach field has been reviewed and is hereby approved. You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144. Please be sure to contact Hot Springs County Planner Lee Campbell at (307) 864-2961 at least 24 hours prior to the beginning of construction.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

Steve Warner
Reviewer

xc: IPS, Cheyenne
Lee Campbell, Hot Springs County, 415 Arapahoe Street, Hot Springs, WY 82443

Encl: General permit for one Small Waste Water Systems



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 07-854

Red Rock Business Park Sewer and Water Mains

This permit hereby authorizes the applicant:

Dee J. Hillberry, President
Hot Springs County Economic Development Company
420 Broadway
Thermopolis, WY 82443

to construct sewer and water mains consisting of approximately 1,165 linear feet (LF) of 8-inch trenched PVC sewer main, 2195 LF of 8-inch horizontal directional drilled HDPE sewer main (1,052 LF with 14-inch HDPE casing) and 1,377 LF of 8-inch PVC water main to serve a 16-lot commercial subdivision; according to the procedures and conditions of the application number 07-854. The facility is located within NE $\frac{1}{4}$ Section 14 and SW $\frac{1}{4}$ Section 11, Township 42 North and Range 95 West in the county of Hot Springs, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by January 31, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

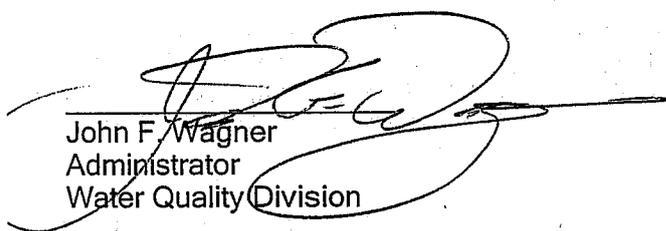
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

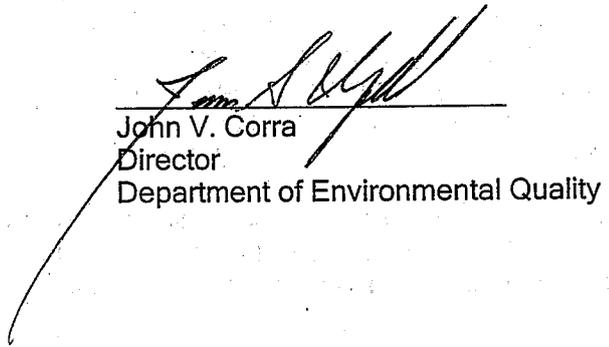
- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

1-18-08
Date of Issuance

JSB/rm/8-0045

STATEMENT OF BASIS

1. Permit Number: 07-854
2. Application reviewed for compliance with the following regulations:
Chapters 3, 11 and 12 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above?
The approval is based upon a deviation from applicable regulations in accordance with Section 5 of Chapter 11.
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.
 - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulations.

The permit includes approval to deviate from the following regulatory requirements:
 - 1) Chapter 11, Section 9(d)(i) limits the spacing between manholes to 400 feet for sewer mains 15 inches or less in diameter.
 - 2) Chapter 11, Section 9(d)(i) requires that manholes be placed at all vertical and horizontal changes in alignment.
 - 3) Chapter 11, Section 9(b) does not include high density polyethylene (HDPE) pipe as an approved pipe material for gravity sanitary systems.
 - b. Briefly state the basis for the deviation.
 - 1) The sewer operator contracts the sewer cleaning to a private firm and they have verified that their sewer jet is longer than 688 feet which is the maximum manhole spacing in this design.
 - 2) The curved alignment at three segments of sewer main is necessary to match terrain constraints and to follow the highway right-of-way. A steeper (1.5% minimum) slope has been designed for all HDPE segments. The horizontal changes in alignment are established by long radial (i.e., greater than 290 feet radius) changes. As a comparison, a Bureau of Engineering Manual for sewer design allows a minimum radius of 280 feet for 8-inch plastic jointed pipe.
 - 3) HDPE pipe is the material of choice for horizontal directional drilling and it will be installed at steeper slopes (i.e., 1.5% minimum) to reduce the possibility of sags and clogging.
5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Public water and sewerage systems are exempted from review by Chapter 3, Section 17.

6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James S. Brough, jbroug@state.wy.us, Northwest District Engineer and completed on January 16, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

c: Thomas Axthelm, P.E., Inberg-Miller Engineers, 124 East Main St., Riverton, WY 82501
Harry Hughes, P.E., S. Thermopolis Water & Sewer District, P.O. Box 204, Thermopolis, WY 82443

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PWS # 5600156

PERMIT NO. 07-855R

Phase I Sanitary Sewer Collection System Expansion Project, Alpine, Wyoming

This permit hereby authorizes the applicant:

Victoria DeCora, Mayor
Town of Alpine
P.O. Box 3070
Alpine, WY 83128

to construct water and sewer main extensions consisting of 23,394LF, 1298LF and 2005LF respectively of 8, 10 and 15-inch PVC sewer mains and a 250LF 6-inch HDPE forced sewer main with lift station and alternative power added to the existing sewage collection system to serve the towns commercial and residential lots; according to the procedures and conditions of the application number 07-855R. The subdivision is located within the city limits of Alpine within Section 29, T37N, R118W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by February 15, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

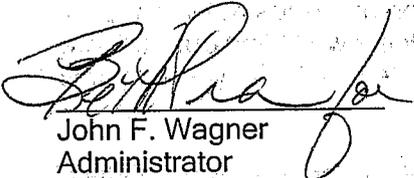
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

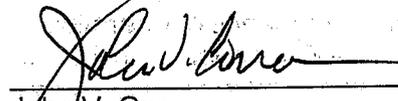
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

2-22-08
Date of Issuance

PDR/rm/8-0130

STATEMENT OF BASIS

1. Permit Number: 07-855R
2. Application reviewed for compliance with the following regulations:
3. Chapters 3, and 11 of the Wyoming Water Quality Rules and Regulations.
4. Does the permit comply with all applicable regulations identified above?
Yes
5. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.
NA
6. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Not Required
7. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

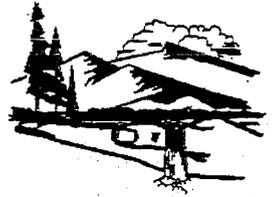
CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Perry Roberson, prober2@state.wy.us, Engineering Consultant, approved by Mark Baron P.E. Southwest District Engineer and completed on February 15, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

cc: Kevin Frank, WDEQ Casper Field Office, 152 North Durbin Street Suite 100, Casper, WY 82601
Leon R. Kjellgren P.E. Nelson Engineering, P.O. Box 1599, Jackson, WY 83001



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 26, 2007

Paul Galovich
660 E. Sunnyside Lane
Hot Springs, WY 82443

RE: Galovich Residential Septic System – Small Waste Water System – Permit Number 07-856, NE ¼, Section 8, T43N, R94W, Hot Springs County

Dear Mr. Galovich:

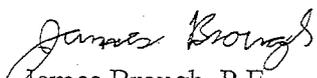
The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the mobile home with a 761 sq ft leach field has been reviewed and is hereby approved with the following precaution.

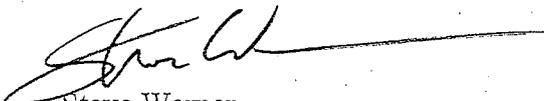
- a) Norwesco septic tanks should be tested with water for structural integrity during burial and immediately after pumping. Also, the manways (one on each compartment) must be extended to the ground surface because no cleanouts are provided.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144. Please be sure to contact Hot Springs County Planner Lee Campbell at (307) 864-2961 at least 24 hours prior to the beginning of construction

Sincerely,


James Brough, P.E.
Northwest District Engineer
Water Quality Division


Steve Warner
Reviewer

xc: IPS, Cheyenne Lee Campbell, Hot Springs County, 415 Arapahoe Street, Hot Springs, WY 82443

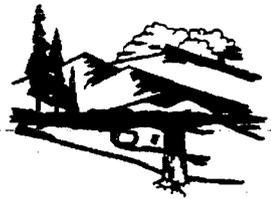
Encl: General permit for one Small Waste Water Systems

Page 1 of 1





Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

January 18, 2008

MR. MARTY MARTIN
1036 PONDEROSA WAY
ROCK SPRINGS, WY 82901

RE: TOWN OF SUPERIOR- SEWERLINE EXTENSION
Application No. **07-857**, Sweetwater County

Dear Mr. Martin:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems described as sewer line extension, SW1/4 Section 28 T21N R102W; Sweetwater County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 10, 2012.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **07-857** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/8-0054

cc: IPS, Cheyenne

Amy M. Allen, JFC ENGINEERING & SURVEYORS, 1515 Ninth St., Rock Springs, WY 82901

TOWN OF SUPERIOR, P.O. Box 40, Superior, WY 82945

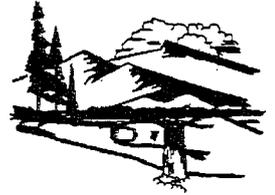
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

February 12, 2008

David G. Westling, Assistant City Engineer
City of Green River
50 E. 2nd N
Green River, WY 82935

RE: 2008 Uinta Water Tie Project; Permit Number 07-858, SE1/4 Section 22 and NE1/4 Section 27, T18N, R107W, Sweetwater County, Wyoming

Dear Mr. Westling:

The application for coverage under General Permits to Construct a water main tie-line consisting of 1100 feet of 12 inch PVC and 3 fire hydrants serving the Visitor Center located in Green River in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Perry Roberson
Engineering Consultant
Water Quality Division

Mark Baron P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne

encl: General Permit for a Public Water Supply Distribution System,



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 07-859

Reference Permit WYPDES No. WY0020672

City of Riverton Solids Dewatering Facility Upgrade

This permit hereby authorizes the applicant:

City of Riverton
816 North Federal Blvd
Riverton, Wyoming 82501

to construct, install or modify a upgrades to existing solids handling process including new building containing solids dewatering centrifuge, polymer feed system, solids feed pumps, and dewatered solids handling equipment; new headworks equipment; drying bed improvements; and associated yard piping, sitework, electrical, instrumentation, controls, and mechanical work according to the procedures and conditions of the application number 07-859. The facility is located in NW1/4 Section 36, Township 1 North, Range 4 East, Wind River Meridian in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2009.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

STATEMENT OF BASIS

1. Permit Number: 07-859
2. Application reviewed for compliance with the following applicable regulations:
 - a. Chapters 3 and 11.
3. Does the permit comply with all applicable regulations identified above?
 - a. yes
4. Facilities not specifically covered by regulations
 - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
Not applicable
 - b. Briefly state the basis for the deviation.
Not applicable
5. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
The proposed dewatering and headworks equipment will be in enclosed buildings and concrete basins, piping will be gasketed and pressure rated, and the dewatered solids will go through final drying/composting on paved beds, so groundwater impact is not expected.
6. Documentation of Statement of Basis:
The archive file for this permit will include adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter 3, Wyoming Water Quality Rules and Regulations. This review was performed by Kevin Frank, SRF Program Engineering Consultant, and James Brough, NW District Engineer, and completed on April 21, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

January 14, 2008

Mr. Herman Noe
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003

RE: DIAMOND ESTATES PHASE II, Application No. **07-861**, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and of Existing Sewage Collection Systems described as waterline, fire hydrants and sewer line extensions, NE1/4 Section 27 T14N R65W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 10, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **07-861** in any future correspondence.

Sincerely,

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/8-0032

cc: IPS, Cheyenne

Bruce H. Perryman, AVI., P.C., 2035 Westland Rd., Cheyenne, WY 82001

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 07-864

River 2 Project Area

This permit hereby authorizes the applicant:

St. Mary Land and Exploration Corporation
550 N. 31st Street, Suite 500
P.O. Box 7168
Billings, Montana 59103-7168

to have installed four compliance monitoring wells according to the procedures and conditions of the application number **07-864**. The facilities are proximal to three coalbed methane produced water impoundments located in Township 56N, Range 77W, Sections 17 and Section 20 and Township 56N, Range 78W, Section 13 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.
- 3 of 3: Monitoring Requirements:

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

Impoundment – P5678-1316

Parameter	MW5678-1316A Background Value (mg/L) (06/20/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0025	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1910	≥ 2400	3000
Total Dissolved Solids (TDS)	3910	≥ 4000	5000
pH	7.1	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5678-1715

Parameter	MW5677-1715A Background Value (mg/L) (11/06/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.0031	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	303	≥ 2400	3000
Total Dissolved Solids (TDS)	1460	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5677-2008

Parameter	MW5677-2008A Background Value (mg/L)	Trigger Value (mg/L)	Class III Water Quality Standards

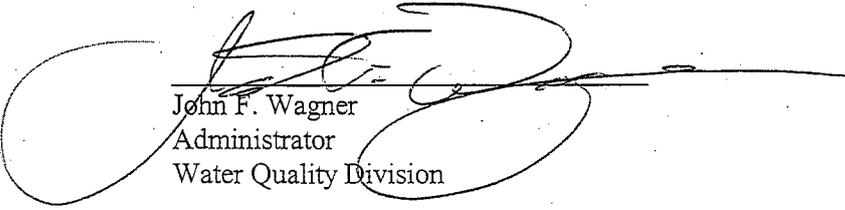
	(02/02/06)		(mg/L)
Arsenic	0.0096	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2570	≥ 2785	3000
Total Dissolved Solids (TDS)	4510	≥ 4755	5000
pH	7.4	≤ 6.5	6.5 – 8.5 (s.u)

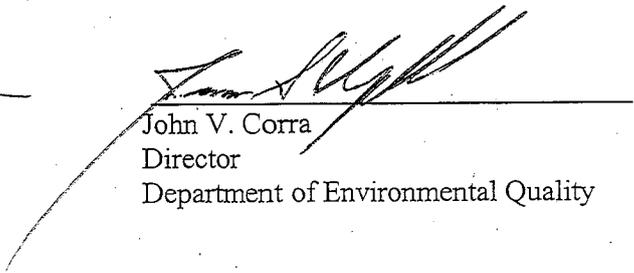
Trigger values, specific to the groundwater samples at these impoundments, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

In addition to the sampling and reporting schedule established above, groundwater in monitoring well MW2105A shall be sampled until further notice in order to determine if there are potential impacts or hydrologic connection to Clear Creek from Impoundment P5677-2008. In order to provide data on the migrating groundwater, this monitoring well shall be monitored quarterly for the presence of water and sampled for the following parameters if groundwater is encountered: total dissolved solids, electric conductivity, SAR (calcium, sodium, magnesium), bicarbonate, and sulfates. Depending upon the sampling results, more frequent monitoring and/or additional monitoring wells may be required to be installed between the monitoring well and Clear Creek.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

1-18-08
 Date of Issuance

WDF/rm/8-0031

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 07-865

River 2 Project Area, Phase II

This permit hereby authorizes the applicant:

St. Mary Land and Exploration Corporation
550 N. 31st Street, Suite 500
P.O. Box 7168
Billings, Montana 59103-7168

to have installed three compliance monitoring wells according to the procedures and conditions of the application number **07-865**. The facilities are proximal to two coalbed methane produced water impoundments located in Township 56N, Range 77W, Sections 4 and Section 17 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4: Monitoring Requirements:

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater in the following downgradient monitoring wells: MW5677-0413B, MW5677-1713A and MW5677-1713C.
- Reporting results of quarterly monitoring and sampling are due by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **April 15, 2008**. Please submit all analytical data and correspondence to the DEQ, Sheridan field office.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

Impoundment – P5677-0413

Parameter	MW5677-0413B Background Value (mg/L) (08/19/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0046	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1790	≥ 2400	3000
Total Dissolved Solids (TDS)	3090	≥ 4000	5000
pH	7.4	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5677-1713

Parameter	MW5677-1713A Background Value (mg/L) (05/29/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.0031	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	57	≥ 2400	3000
Total Dissolved Solids (TDS)	1210	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5677-1713

Parameter	MW5677-1713C Background Value (mg/L) (05/29/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0096	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	8	≥ 2400	3000
Total Dissolved Solids (TDS)	973	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

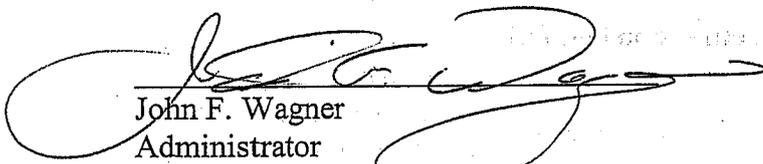
Trigger values, specific to the groundwater samples at these impoundments, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

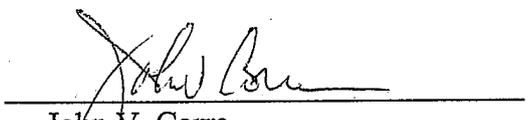
The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spreadsheet “Compliance Monitoring Data Reporting”, which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

4 of 4: Exceedence of Groundwater Standards:

Any exceedence of a groundwater quality standard listed in the preceding table, or as applicable in Water Quality Rules and Regulations, Chapter 8, Table I, is a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment the WDEQ may require, among other things, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

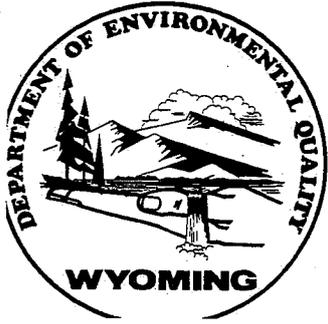
AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

1/25/06
Date of Issuance

WDF/rm/8-0064



GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: **CBM: Groundwater Compliance Monitoring Program**

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 07-865

SITE (POD) NAME: River 2 Project Area, Phase II

APPLICANT: **St. Mary Land and Exploration Company**
Attn: Mr. James D. Shaffer
550 N. 31st Street, Ste. 500
P.O. Box 7168
Billings, Montana 59103-7168

CONSULTANT: **HydroSolutions Inc.**
Attn: Eric Detmer, PE
1949 Sugarland Dr., Suite 140
Sheridan, Wyoming 82801

LOCATION: **Drainage: Ephemeral Tributaries to Clear Creek**
56N, R77W, Sec. 4 & 17
County: Sheridan

DATE ON REPORT: **December 4, 2007**

REVIEWING OFFICIAL: **Don Fischer, North District Geologic Supervisor**

DATE OF THIS REVIEW: **January 15, 2008**

ACTION: **Compliance Monitoring Plan authorized for River 2 Project Area, Phase II**
pursuant to conditions in permit # 07-865

Impoundment P5677-1713:

This proposed impoundment is located approximately 1800 feet north of Buffalo Creek and 600 feet east of an unnamed tributary to Buffalo Creek.

Colluvial sediments range from 36 to 50 feet thick in the area of the impoundment. The first saturated interval was encountered from 96 to 109 feet below ground surface. Static water levels range from 57.7 to 87.0 feet, indicating a semi-confined hydrologic condition. The groundwater flow direction is to the . Monitoring well MW5677-1715A was established as the downgradient monitoring well.

2.0 MONITORING AND REPORTING REQUIREMENTS FOR GROUNDWATER PROTECTION

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at monitoring wells: MW5678-1316A, MW5677-1715A and MW5677-2008A
- Measure of static water level and if present, sampling and analysis of groundwater of monitoring well: MW2105A
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by April 15, 2008.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

Impoundment – P5678-1316

Parameter	MW5678-1316A Background Value (mg/L) (06/20/07)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0025	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1910	≥ 2400	3000
Total Dissolved Solids (TDS)	3910	≥ 4000	5000
pH	7.1	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5678-1715

Parameter	MW5677-1715A	Class III
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	Background Value (mg/L) (11/06/07)	Trigger Value (mg/L)	Water Quality Standards (mg/L)
Arsenic	<0.0031	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	303	≥ 2400	3000
Total Dissolved Solids (TDS)	1460	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

Impoundment – P5677-2008

Parameter	MW5677-2008A Background Value (mg/L) (02/02/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0096	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2570	≥ 2785	3000
Total Dissolved Solids (TDS)	4510	≥ 4755	5000
pH	7.4	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at these impoundments, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

3.0 MONITORING AND REPORTING REQUIREMENTS FOR SURFACE WATER PROTECTION

Impoundment – P5677-2008

Impoundment P5677-2008 is located approximately 1750 feet from Clear Creek. In addition to the sampling and reporting schedule established above, groundwater in monitoring well MW2105A shall be sampled until further notice in order to investigate any potential hydrologic connection to Clear Creek. Monitoring well MW2105A was installed and screened at the base of the unconsolidated sediments and is located between the impoundment and the creek.

In order to provide data on potential migrating groundwater, monitoring well MW2105A will be monitored on a quarterly schedule for the presence of water and sampled for the following parameters if groundwater is encountered: total dissolved solids, electric conductivity, SAR (calcium, sodium, and magnesium), bicarbonate, and sulfates. Depending upon the results, more frequent monitoring and/or additional monitoring wells may need to be installed downgradient towards Clear Creek.

The analytical results required under Section 3.0 of this review shall be submitted quarterly to the WDEQ along with the analytical results required under Section 2.0 of this review.

END OF REVIEW

WDF/rm/8-0064

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 07-866

Shorty's Reservoir

This permit hereby authorizes the applicant:

Mr. Al Erwin
Ringwood Gathering Company
810 Houston St.
Ft. Worth, TX 76102-6298

to have installed a compliance monitoring well according to the procedures and conditions of the application number 07-866. The facilities are proximal to coalbed methane produced water impoundments located in Township 45N, Range 76W, Section 11 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4: Monitoring Requirements:

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: GMW-3
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **April 15, 2008**
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Shorty's Reservoir

Parameter	Shorty's GMW-3 Background Value (mg/L) (10/9/2006) (based on sample from GMW-1)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	ND	≥ 0.16	0.2
Selenium	0.005	≥ 0.04	0.05
Sulfate	2300	≥ 2400	3000
Total Dissolved Solids (TDS)	4030	≥ 4515	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

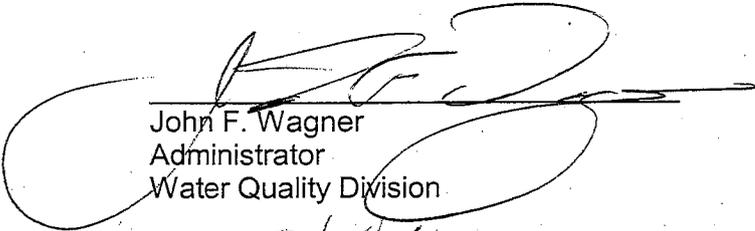
Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address:

(<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

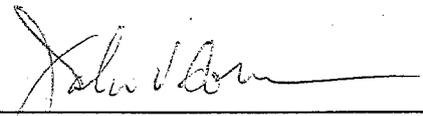
4 of 4. Any exceedance of the water quality standards listed above will be considered a violation of this permit. If an exceedance of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:



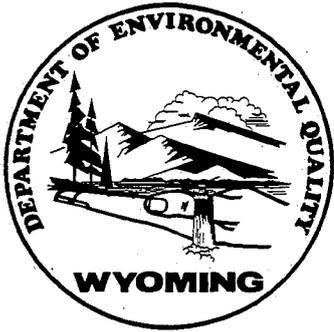
John F. Wagner
Administrator
Water Quality Division

2/4/08
Date of Issuance



John V. Corra
Director
Department of Environmental Quality

UMW/rm/8-0092



GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 07-866

SITE (POD) NAME: Shorty's Reservoir

APPLICANT: Mr. Al Erwin
Ringwood Gathering Company
810 Houston St.
Ft Worth, TX 76102-6298

CONSULTANT: Mr. David Nicholarsen
Pearl Field Services
P.O. Box 783
Sheridan, WY 82801

LOCATION: Drainage: South Prong Pumpkin Creek,
Tributary to Powder River
County: Campbell
Township 45 North; Range 76 West

WYPDES No: Discharge Permit: WY0052370

DATE ON REPORT: August 8, 2007

REVIEWING OFFICIAL: Ursula Williams, North District Geologic Project Analyst

DATE OF THIS REVIEW: January 21, 2008

ACTION: Compliance Monitoring Plan authorized for Shorty's Reservoir pursuant to conditions on permit #07-866.

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: South Prong Pumpkin Creek, tributary to Powder River

Groundwater Classification:

Class 1 (domestic)
Class 2 (agricultural)
Class 3 (livestock) 1

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate (2300 mg/l) and TDS (4030) (Table 1- Chapter 8).

Description of Hydrogeology:

Ringwood gathering proposes to use Shorty's Reservoir to manage emergency CBM-produced water discharges from Pump Station #4 under the WYPDES program. Thus, it is not anticipated that the reservoir will be filled on a regular basis. The proposed reservoir capacity is 8.56 ac-ft.

Groundwater was encountered in two of three holes (GMW-1 and GMW-3) drilled below the proposed impoundment in sandstones approximately 40 and 50 feet below ground surface (bgs). The third boring (GMW-2), which is closest to the reservoir did not encounter this sandstone, thus did not make sufficient water to warrant well construction. A moist zone was described about 60 feet bgs in the boring log of the dry hole which may represent a potentiometric surface not inconsistent with the other two wells. Interpretation of the water levels indicates groundwater flow is to the NNW. Of the three holes drilled, only the dry borehole appears to be located down-gradient of the reservoir. Consequently, there does not appear to be a significant groundwater resource down-gradient from the proposed impoundment.

State Engineer's (SEO) database indicates surface water appropriations within Section 11 associated with spreader dikes on South Prong Pumpkin Creek. This water use should not be affected by the proposed reservoir because any subsurface groundwater contributions to the alluvium in South Prong should be minimal. Also indicated in the SEO's records is a shallow livestock well within Section 11. This well does not appear to be down-gradient from the proposed reservoir and is more than ¼ mile away.

Although GMW-3 is not directly down-gradient from the proposed reservoir (as defined by the above cited data), it is considered adequate to monitor potential impacts to the alluvium of South Prong. This well is located between

the proposed reservoir and South Prong and its water bearing zone is not confined.

Table 1. Name of Impoundment covered under Permit 07-866

Impoundment Name	Capacity (acre/ft)	Qtr	Qtr	Section	Town.	Range	Down gradient Monitoring Well
Shorty's Reservoir	8.6	NESW		11	45N	76W	GMW-3

No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: GMW-3
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **April 15, 2008**
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Shorty's Reservoir

Parameter	Shorty's GMW-3 Background Value (mg/L) (10/9/2006) (based on sample from GMW-1)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	ND	≥ 0.16	0.2
Selenium	0.005	≥ 0.04	0.05
Sulfate	2300	≥ 2400	3000
Total Dissolved Solids (TDS)	4030	≥ 4515	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the

following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

UMW/rm/8-0092

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. (05-670)--07-867

Icebox A

This permit hereby authorizes the applicant:

James Alsup
Anadarko Petroleum Corporation
1099 18th Street, Suite 1200
Denver, CO 80202-1955

to assume ownership of one compliance monitoring well previously permitted as (05-670) according to the procedures and conditions of the application number 07-867. The facilities are proximal to the coalbed methane produced water impoundment located in Township 50N, Range 78W, Section 20 in the county of Johnson, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions

1 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 3: Monitoring Requirements:

Groundwater monitoring at the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at well Icebox A.
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **April 15, 2006**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

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Impoundment Icebox

Parameter	Icebox A Background Value (mg/L) (4/13/05)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2040	≥ 2400	3000
Total Dissolved Solids (TDS)	3210	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

AUTHORIZED BY:



 John F. Wagner
 Administrator
 Water Quality Division



 John V. Corra
 Director
 Department of Environmental Quality

1/24/08

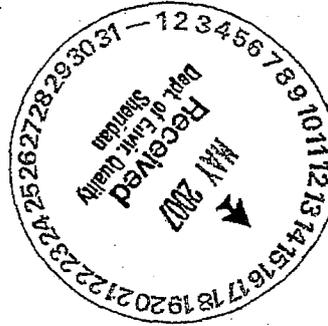
 Date of Issuance

UMW/rm/8-0067

PERMIT TRANSFER REQUEST

Date: April 26, 2007

Groundwater Program
Water Quality Division
Department of Environmental Quality
1866 S. Sheridan Ave.
Sheridan, WY 82801



To Whom It May Concern:

Kennedy Oil intends to transfer ownership of the facility (Icebox)
(Original Owner)

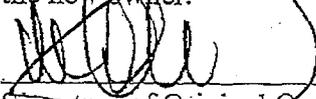
associated with Permit Number 05-670 to Anadarko Petroleum Corporation
(New Owner)

on May 1, 2007. It is requested that the said permit be transferred to the new owner in
(Date)

accordance with Section 12 of Chapter 3, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

The original owner shall retain responsibility for the facility according to the terms of the original permit until the application for permit transfer is approved by the Administrator.

Please transfer the permit to the transferee's name and issue a modified permit reflecting the transfer of ownership. Terms and conditions of the original permit are transferred to and become the responsibility of the new owner.



Signature of Original Owner



Signature of New Owner

Name M. John Kennedy

Name James Alsup

Address Kennedy Oil

Address 1099 18th Street, Suite 1200

700 W. 6th Street

Denver, CO 80202-1955

Gillette, WY 82716

Telephone (307) 682-1629

Telephone (303) 450-8418

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. (06-020)--07-868

Big Cat 24-1

This permit hereby authorizes the applicant:

James Alsup
Anadarko Petroleum Corporation
1099 18th Street, Suite 1200
Denver, CO 80202-1955

to assume ownership of one compliance monitoring well previously permitted as (06-020) according to the procedures and conditions of the application number 07-868. The facilities are proximal to the coalbed methane produced water impoundment located in Township 48N, Range 79W, Section 24 in the county of Johnson, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions

1 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 3: Monitoring Requirements:

Groundwater monitoring at the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at well Big Cat 24-1.
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **April 15, 2006**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

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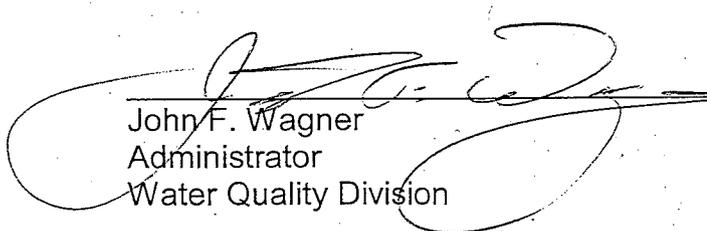
Impoundment Big Cat 24-1

Parameter	MW Big Cat 24-1 Background Value (mg/L) (5/18/05)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	475	≥ 2400	3000
Total Dissolved Solids (TDS)	1480	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

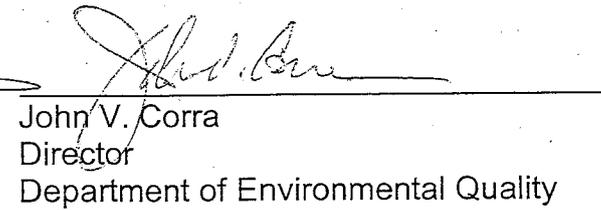
Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

AUTHORIZED BY:



John F. Wagner
Administrator
Water Quality Division



John V. Corra
Director
Department of Environmental Quality

1/24/08
Date of Issuance

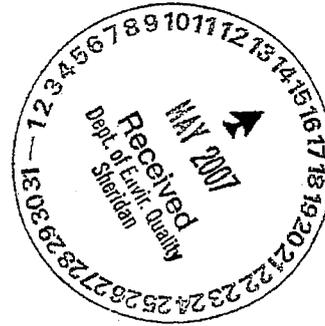
UMW/rm/8-0068

07-868

PERMIT TRANSFER REQUEST

Date: April 26 2007

Groundwater Program
Water Quality Division
Department of Environmental Quality
1866 S. Sheridan Ave.
Sheridan, WY 82801



To Whom It May Concern:

Kennedy Oil intends to transfer ownership of the facility (**Big Cat 24-1**)
(Original Owner)

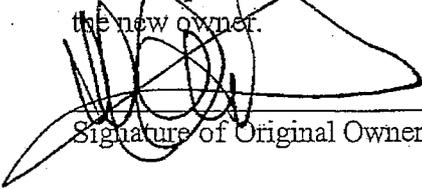
associated with Permit Number 06-020 to Anadarko Petroleum Corporation
(New Owner)

on May 1, 2007. It is requested that the said permit be transferred to the new owner in
(Date)

accordance with Section 12 of Chapter 3, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

The original owner shall retain responsibility for the facility according to the terms of the original permit until the application for permit transfer is approved by the Administrator.

Please transfer the permit to the transferee's name and issue a modified permit reflecting the transfer of ownership. Terms and conditions of the original permit are transferred to and become the responsibility of the new owner.


Signature of Original Owner

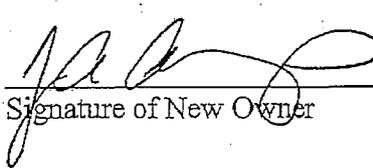
Name M. John Kennedy

Address Kennedy Oil

700 W. 6th Street

Gillette, WY 82716

Telephone (307) 682-1629


Signature of New Owner

Name James Alsup

Address 1099 18th Street, Suite 1200

Denver, CO 80202-1955

Telephone (303) 450-8418

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 07-869

South Tietjen Fee, Plan of Development (POD)

This permit hereby authorizes the applicant:

Windsor Energy Group, LLC
405 West Boxelder Road – Suite A
Gillette, WY 82718

to have installed five compliance monitoring wells according to the procedures and conditions of the application number **07-869**. The facilities are proximal to the off channel coal bed methane produced water impoundments located in Township 54N, Range 79, Section 6 and Township 54N, Range 80 W, Sections 1 and 12 in the county of Campbell, in the State of Wyoming. The WYPDES Permit Number is #WY0054542. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, ph. (307)-673-9337, fax (307)-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4: Monitoring Requirements:

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down gradient well: 9MWA-6 54-79 #1, 16MWA-1 54-80 #1, 16MWB-1 54-80 #1, 1MWA-12 54-80 #1, 6MWA-12 54-80 #1;
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15th, 2008.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

9A-6 54-79

Parameter	9MWA-6 54-79 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.019 (total)	0.2
Selenium	0.008	0.05
Sulfate	2140	3000

Total Dissolved Solids (TDS)	4160	5000
pH	8.1	6.5 – 8.5 (s.u)

16A-1 54-80

Parameter	16MWA-1 54-80 #1 Background Value (mg/L) (01/26/2007)	Class III Water Quality Standards (mg/L)
Arsenic	0.005 (total)	0.2
Selenium	ND	0.05
Sulfate	401	3000
Total Dissolved Solids (TDS)	1340	5000
pH	8.2	6.5 – 8.5 (s.u.)

16B-1 54-80

Parameter	16MWB-1 54-80 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.058 (total)	0.2
Selenium	ND	0.05
Sulfate	1560	3000
Total Dissolved Solids (TDS)	3150	5000
pH	8.3	6.5 – 8.5 (s.u)

1A-12 54-80

Parameter	1MWA-12 54-80 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.027 (total)	0.2
Selenium	ND	0.05
Sulfate	15	3000
Total Dissolved Solids (TDS)	750	5000
pH	8.3	6.5 – 8.5 (s.u)

6A-12 54-80

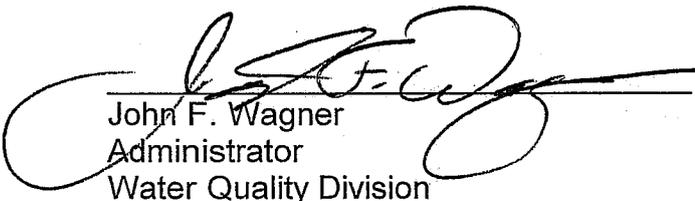
Parameter	6MWA-12 54-80 #1 Background Value (mg/L) (12/15/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.176 (total)	0.2
Selenium	0.016	0.05
Sulfate	2730	3000
Total Dissolved Solids (TDS)	3890	5000
pH	7.6	6.5 – 8.5 (s.u)

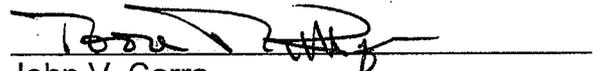
If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

4 of 4: Any exceedance of the water quality standards listed above will be considered a violation of this permit. If an exceedance of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

6-10-08
 Date of Issuance

AWV/rm/8-0459



GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program
WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 07- 869
SITE (POD) NAME: South Tietjen Fee: Multiple Reservoirs 9A-6 54-79,
16A-1 54-80, 16B-5 54-80, 1A-12 54-80, 6A-12 54-80

APPLICANT: Windsor Energy Group, LLC
Attn.: Mr. Alan Schultz
850 Val Vista Street
Sheridan, WY 82801

CONSULTANT: Arcadis G&M, Inc.
Attn.: Ben Schoup
189 North Cedar Street
Buffalo, WY 82834

LOCATION: Drainage: Unnamed Drainages tributary to Whitmeyer
Creek, tributary to Clear Creek, tributary to Powder River
County : Sheridan
Township 54 North; Ranges 79 and 80 West

WYPDES No: Discharge Permit: WY0054542

DATE ON REPORT: Initial: December, 2006,
Numerous supplemental reports

REVIEWING OFFICIAL: Pete Vogel, P. G. Geologic Project Analyst

DATE OF THIS REVIEW: January 23, 2008

ACTION: Compliance Monitoring Plan authorized for South Tietjen
Fee: Multiple Reservoirs 9A-6 54-79, 16A-1 54-80, 16B-5
54-80, 1A-12 54-80, 6A-12 54-80 pursuant to conditions on
permit # 07-869

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Unnamed Drainages tributary to Whitmeyer Creek,
tributary to Clear Creek, tributary to Powder River

Groundwater Classification:

Class 1 (domestic) _____

Class 2 (agricultural) _____

Class 3 (livestock) 5

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate and TDS (Table 1- Chapter 8).

**Table 1. Basis for Ground Water Classification by impoundment
Name covered under Permit 07-869**

Impoundment Name	Down Gradient Monitoring Well	Sulfate Concentration	TDS Concentration	SAR Calculation	Overall Groundwater Class
9A-6 54-79	9MWA-6 54-79 #1	2140 -- III	4160 -- III	11.3	III
16A-1 54-80	16MWA-1 54-80 #1	401-- II	1340 -- II	11.2 -- III	III
16B-1 54-80	16MWB-1 54-80 #1	1560 -- II	3150 -- III	21.0 -- III	III
1A-12 54-80	1MWA-12 54-80 #1	15 -- I	750 -- II	20.0 -- III	III
6A-12 54-80	6MWA-12 54-80 #1	2730 -- III	3890 -- III	3.1	III

Description of Hydrogeology:

Groundwater occurs in 10 to 35 foot thick sandstones and 10 to 15 foot thick coals. The coals contain methane as verified by field inspection. Individual stratigraphic correlation is questionable because the units are highly heterogeneous. Further, projections of the water table between wells are complicated by the fact that many of the borings drilled to establish ground water gradient are dry.

Three wells were installed at each of the impoundments 9MWA-6 54-79 and 6MWA-12 54-80. Compliance wells are established at these locations based on these data.

Only three of the 6 borings drilled at impoundments 16MWA-1 and 16MWB-1 produced sufficient water to be completed as wells. These wells confirmed water table conditions and compliance monitoring wells are established.

Two of the monitoring wells at impoundment 1A-12 54-80 encountered groundwater while the third well was dry to a depth of 200 feet. The lowest gradient well is established as the compliance monitoring well.

Table 2. Names of Impoundments covered under Permit 07- 869

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Township	Range	Down gradient Monitoring Well
9A-6 54-79	14.2	NESE	6	54N	79W	9MWA-6 54-79 #1
16A-1 54-80	19.3	SESE	1	54N	80W	16MWA-1 54-80 #1
16B-1 54-80	20.7	SESE	1	54N	80W	16MWB-1 54-80 #1
1A-12 54-80	74.8	NENE	12	54N	80W	1MWA-12 54-80 #1
6A-12 54-80	8.5	SENW	12	54N	80W	6MWA-12 54-80 #1

No domestic, agricultural or livestock wells or springs or seeps are noted within one-quarter mile.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater in down gradient wells: 9MWA-6 54-79 #1, 16MWA-1 54-80 #1, 16MWB-1 54-80 #1, 1MWA-12 54-80 #1, 6MWA-12 54-80 #1;
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15th, 2008;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment.

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9A-6 54-79

Parameter	9MWA-6 54-79 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.019 (total)	0.2
Selenium	0.008	0.05
Sulfate	2140	3000
Total Dissolved Solids (TDS)	4160	5000
pH	8.1	6.5 – 8.5 (s.u)

16A-1 54-80

Parameter	16MWA-1 54-80 #1 Background Value (mg/L) (01/26/2007)	Class III Water Quality Standards (mg/L)
Arsenic	0.005 (total)	0.2
Selenium	ND	0.05
Sulfate	401	3000
Total Dissolved Solids (TDS)	1340	5000
pH	8.2	6.5 – 8.5 (s.u.)

16B-1 54-80

Parameter	16MWB-1 54-80 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.058 (total)	0.2
Selenium	ND	0.05
Sulfate	1560	3000
Total Dissolved Solids (TDS)	3150	5000
Ph	8.3	6.5 – 8.5 (s.u)

1A-12 54-80

Parameter	1MWA-12 54-80 #1 Background Value (mg/L) (12/14/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.027 (total)	0.2
Selenium	ND	0.05
Sulfate	15	3000
Total Dissolved Solids (TDS)	750	5000
Ph	8.3	6.5 – 8.5 (s.u)

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6A-12 54-80

Parameter	6MWA-12 54-80 #1 Background Value (mg/L) (12/15/2006)	Class III Water Quality Standards (mg/L)
Arsenic	0.176 (total)	0.2
Selenium	0.016	0.05
Sulfate	2730	3000
Total Dissolved Solids (TDS)	3890	5000
Ph	7.6	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

AWV/rm/8-0459

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 07-871

P1-2 STOCK RESERVOIR

This permit hereby authorizes the applicant:

Bill Barrett Corporation) Operating Company
Attn. Mr. Paul McElvery
1414 East Lincoln St.
Gillette, WY 82716

to have installed a compliance monitoring well according to the procedures and conditions of the application number 07-871. The facilities are proximal to coalbed methane produced water impoundments located in Township 47N, Range 75W, Section 1 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4: Monitoring Requirements:

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

Measurement of static water level of groundwater at monitoring well: MWP1-2A

Sampling and analysis of groundwater at: MWP1-2A

Reporting results of quarterly monitoring and sampling need to be at the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by **July 15, 2008**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

P1-2 Stock Reservoir

Parameter	MWP1-2 Background Value (mg/L) (05/27/2005)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	ND	≥ 0.16	0.2
Selenium	ND	≥ 0.04	0.05
Sulfate	949	≥ 2400	3000
Total Dissolved Solids (TDS)	1580	≥ 4000	5000
pH	7.81	≤ 8.15	6.5 – 8.5 (s.u)

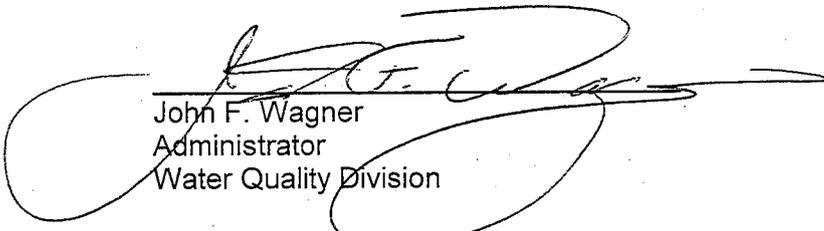
Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address:

cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

- 4 of 4. Any exceedance of the water quality standards listed above will be considered a violation of this permit. If an exceedance of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:



John F. Wagner
Administrator
Water Quality Division



John V. Corra
Director
Department of Environmental Quality

4/3/08

Date of Issuance

AWV/rm/8-0253



GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 07- 871

SITE (POD) NAME: **BEAVER CREEK: Reservoir P1-2 Stock Reservoir**

APPLICANT: **Bill Barrett Corporation**
 Attn.: Mr. Paul McElvery
 1414 East Lincoln St
 Gillette, WY 82716

CONSULTANT: **WWC Engineering**
 Attn.: Ben Schiffer
 1849 Terra Ave
 Sheridan, WY 82801

LOCATION: **Drainage: Unnamed Tributary to Beaver Creek,**
 tributary to Powder River
 County : Campbell
 Township 47 North; Range 75 West

WYPDES No: **Discharge Permit: WY0052299, Outfalls 005/008**

DATE ON REPORT: **Initial May 10, 2007**

REVIEWING OFFICIAL: **Pete Vogel, P. G., Geologic Project analyst**

DATE OF THIS REVIEW: **February 4, 2008**

ACTION: **Compliance Monitoring Plan authorized for Beaver Creek POD P1-2 Stock Reservoir, pursuant to conditions on permit # 07- 871.**

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Beaver Creek, tributary to Powder River

Groundwater Classification:

Class 1 (domestic) _____

Class 2 (agricultural) _____

Class 3 (livestock) 1

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate and TDS (Table 1- Chapter 8).

Table 1. Basis for Ground Water Classification by impoundment Name covered under Permit 07- 871

Impoundment Name	Down Gradient Monitoring Well	Sulfate Concentration	TDS Concentration	SAR Calculation	Overall Groundwater Class
P1-2 Stock Reservoir	MWP1-2A	949	1580	9.6	III

Description of Hydrogeology:

Ground water occurs beneath P1-2 Stock Reservoir in a sandstone ranging in thickness from 2.5 feet to 36.5 feet

Impoundment P1-2 Stock Reservoir will be a new earthen stock reservoir. The three wells installed around the existing impoundment show a ground water flow direction slightly south of west, away from Beaver Creek.

Based on the flow direction, monitoring well MWP1-2A is established as the compliance monitoring well. MWP1-2A is a low yield well that was not sampled. Chemical data from MWP1-2 is used to establish ambient water quality.

Table 2. Names of Impoundments covered under Permit 07- 871

Impoundment Name	Capacity (acre/ft)	Qtr	Qtr	Section	Town.	Range	Down gradient Monitoring Well
P1-2 Stock Reservoir	12.1	NWNW		1	47N	75W	MWP1-2A

No other domestic, agricultural or livestock wells are noted in the immediate area that will be impacted. No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: MWP1-2A
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by July 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

P1-2 Stock Reservoir

Parameter	MWP1-2 Background Value (mg/L) (05/27/2005)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	ND	≥ 0.16	0.2
Selenium	ND	≥ 0.04	0.05
Sulfate	949	≥ 2400	3000
Total Dissolved Solids (TDS)	1580	≥ 4000	5000
pH	7.81	≤ 8.15	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15th day of each month. If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW
AWV/rm/8-0253