THIRD QUARTER

cgm dis 931026-5552

ENVIRONMENTAL INDUSTRIAL SERVICES
4855 N. Spring Glen Rd., Spring Glen, UT 84526 - Telephone (801) 472-3814 - FAX (801) 472-6780

October 26, 1993

Donald A. Hilden, PhD.
Utah Department of Health
Bureau of Water Pollution Control
288 North 1460 West, P.O. Box 16690
Salt lake City, Utah 84116-0690

Re: 3rd Quarter UNPDES Report
Amax Coal West, Inc.

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s: 011A, 012A, 013A, 015A, 020A, 014A, 009a, and 005A had **NO** discharge during the Third Quarter of 1993.

This letter is in lieu of the computer printed forms, as we have not received the new forms.

Sincerely,

Melvin A. Coonrod
E.I.S.

MC/njc

cc: Richard Allison, AMAX
Lowell Braxton, UDOGM
File

FOURTH QUARTER

ENVIRONMENTAL INDUSTRIAL SERVICES
4855 N. Spring Glen Rd., Spring Glen, UT 84526 - Telephone (801) 472-3814 - FAX (801) 472-8780

November 26, 1993

Donald A. Hilden, phD.
Utah Department of Health
Bureau of Water Pollution Control
288 North 1460 West, P.O. Box 16690
Salt Lake City, Utah 84116-0690

Re: October UNPDES Report
Amax Coal West, Inc

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s: 011A, 012A, 013A, 015A, 020A, 014A, 009A, and 005A had NO discharge during October, 1993.

This letter is in lieu of the computer printed forms, as we have not received the new forms.

Sincerely,

Melvin A. Coonrod

cc: Richard Allison, AMAX
Lowell Braxton, UDOGM
File

Env. File.
DTS.

AMAX COAL WEST, INC.
A Subsidiary of AMAX Coal Industries, Inc.

AMAX

January 20, 1994

Mr. Donald A. Hilden, Ph.D.
Dept. of Environmental Quality
Division of Water Quality, Permitting & Compliance Section
P.O. Box 144870
Salt Lake City, Utah 84114-8470

Re: Castle Gate Mine Monthly NPDES Report, Permit No. UTG040012

Dear Mr. Hilden:

Enclosed is EPA Form 3320 for points 005A, 009A, 011A, 012A, 013A, 014A, 015A and 020A. This report is being submitted to you in this manner because Amax has not received any preprinted forms. No points discharged during the month of November.

Please contact me at (303) 980-2318 if you have any questions regarding this submittal. Thank you.

Sincerely,

Richard H. Allison Jr.

Richard H. Allison, Jr., P.E.
Project Supervisor

RHA/mg
Enclosures

cc: Environmental Protection Agency, Denver, w/ enclosures
Castle Gate Mine Environmental Files, w/ enclosures ✓
Environmental Industrial Services, w/ enclosures
Division of Oil, Gas & Mining, Salt Lake City, w/ enclosures

165 South Union Boulevard • Suite 1000 • P.O. Box 280219 • Lakewood, Colorado 80228-0219 • Tel. 303-980-2300 • FAX 303-980-2303

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME CASTLE GATE MINE
ADDRESS P.O. BOX 449
HELPER, UTAH 84526

FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 6-30-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
UTG040012	

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	11	01	TO	93	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	SAMPLE MEASUREMENT	NO DISCHARGE #'s 011A, 012A, 015A, 020A, 014A, 009A, and 005A And 013									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Thomas J. Lien, Vice President, AMAX Coal West	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	Richard H. Allen Jr.	303	980-2318	94	01	20
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Env. Files

AMAX COAL WEST, INC.
A Subsidiary of AMAX Coal Industries, Inc.

AMAX

January 20, 1994

Mr. Donald A. Hilden, Ph.D.
Dept. of Environmental Quality
Division of Water Quality, Permitting & Compliance Section
P.O. Box 144870
Salt Lake City, Utah 84114-8470

Re: Castle Gate Mine Monthly NPDES Report, Permit No. UTG040012

Dear Mr. Hilden:

Enclosed is EPA Form 3320 for points 005A, 009A, 011A, 012A, 013A, 014A, 015A and 020A. This report is being submitted to you in this manner because Amax has not received any preprinted forms. No points discharged during the month of December.

Please contact me at (303) 980-2318 if you have any questions regarding this submittal. Thank you.

Sincerely,

Richard H. Allison Jr.

Richard H. Allison, Jr., P.E.
Project Supervisor

RHA/mg
Enclosures

cc: Environmental Protection Agency, Denver, w/ enclosures
Castle Gate Mine Environmental Files, w/ enclosures
Environmental Industrial Services, w/ enclosures
Division of Oil, Gas & Mining, Salt Lake City, w/ enclosures

165 South Union Boulevard • Suite 1000 • P.O. Box 280219 • Lakewood, Colorado 80228-0219 • Tel. 303-980-2300 • FAX 303-980-2303

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME CASTLE GATE MINE

ADDRESS P.O. BOX 449
HELPER, UTAH 84526

FACILITY

LOCATION

ATTN: RICHARD H. ALLISON JR. P.E.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved
OMB No. 2040-0004
Approval expires 6-30-88

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
UTG040012	

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	12	01	TO	93	12	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

X NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* *(46-53)* QUANTITY OR LOADING *(54-61)* AVERAGE	MAXIMUM	UNITS	*(4 Card Only)* *(38-45)* QUALITY OR CONCENTRATION *(46-53)* MINIMUM	AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
	SAMPLE MEASUREMENT	NO DISCHARGE #'s 011A, 012A, 015A, 020A, 014A, 009A, and 005A AND 013									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Thomas J. Lien, Vice President, AMAX Coal West	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	Richard H. Allison	303	980-2318	94	01	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

APPENDIX 3

SUBSIDENCE MONITORING

CASTLE GATE COAL COMPANY
SUBSIDENCE MONITORING
BEAR CANYON

STATION	LOCATION	ELEVATION 5/81	ELEVATION 11/92	ELEVATION 10/93	CHANGE Last	CHANGE Acc.
TRP-1	Price Cyn.	6319.85	6319.85	6319.85	(Control Pt.)	
BZ-60	Bear Cyn.	6508.00	6508.00	6508.00	(Control Pt.)	
BZ-52	Bear Cyn.	6713.78	6713.78	6713.78	(Control Pt.)	
Sub-34	Bear Cyn.	6744.44	6744.50	See Note	-	+0.06
Sub-38	Bear Cyn.	6700.59	6700.56	6700.71	+0.15	+0.12
Sub-63	Bear Cyn.	6546.54	6546.46	6546.52	+0.06	-0.02
Sub-64	Bear Cyn.	6406.63	6406.65	6406.54	-0.11	-0.09
Sub-71	Price Cyn.	6400.99	6400.95	6401.15	+0.20	+0.16

Notes:

(1) The above referenced points represent the only subsidence and control points located within Bear Canyon and subsequently verified by survey.

(2) Points were also located near the assumed locations of Sub. Nos. 58, 62, 66, 68 and 69 and then surveyed. Upon calculation of elevations and coordinates, it was determined that these unmarked points were not those assumed above. Sub-34 is no longer visible due to large trees and has been eliminated.

(3) Points 37, E-10, 17, 21, 65, 67 and 70 were searched for, but not found. It should be noted that these points were installed 12 years ago.

(4) During the search for the points, any subsidence effects were to be noted. There were no fractures, slumps, rock falls or other subsidence-related effects noted within the canyon during this survey.

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
10/26/93
STATE OF UTAH

CASTLE GATE COAL COMPANY
SUBSIDENCE MONITORING
BEAR CANYON

STATION	LOCATION	ELEVATION 5/81	ELEVATION 11/92	ELEVATION 10/93	CHANGE Last	CHANGE Acc.
TRP-1	Price Cyn.	6319.85	6319.85	6319.85	(Control Pt.)	
BZ-60	Bear Cyn.	6508.00	6508.00	6508.00	(Control Pt.)	
BZ-52	Bear Cyn.	6713.78	6713.78	6713.78	(Control Pt.)	
Sub-34	Bear Cyn.	6744.44	6744.50	See Note	-	+0.06
Sub-38	Bear Cyn.	6700.59	6700.56	6700.71	+0.15	+0.12
Sub-63	Bear Cyn.	6546.54	6546.46	6546.52	+0.06	-0.02
Sub-64	Bear Cyn.	6406.63	6406.65	6406.54	-0.11	-0.09
Sub-71	Price Cyn.	6400.99	6400.95	6401.15	+0.20	+0.16

Notes:

(1) The above referenced points represent the only subsidence and control points located within Bear Canyon and subsequently verified by survey.

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(3) Points 37, E-10, 17, 21, 65, 67 and 70 were searched for, but not found. It should be noted that these points were installed 12 years ago.

(4) During the search for the points, any subsidence effects were to be noted. There were no fractures, slumps, rock falls or other subsidence-related effects noted within the canyon during this survey.

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
10/26/93
STATE OF UTAH

APPENDIX 4

VEGETATION DATA

APPENDIX 5

ANNUAL IMPOUNDMENT CERTIFICATIONS

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 003 LOCATION: Sowbelly Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Vegetated.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Dry
(5) Existing Storage Capacity	9260 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	92.3
(8) Sediment Cleanout Level (Elev.)	94.7
(9) Principle Spillway (Elev.)	96.8
(10) Emergency Spillway (Elev.)	N/A
(11) Existing Sediment Capacity (To Cleanout)	1914 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Would discharge to 004. Elevations Relative to Dam Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 004 LOCATION: Sowbelly Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Dry
(5) Existing Storage Capacity	22,500 cu.ft.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	91.9
(8) Sediment Cleanout Level (Elev.)	93.5
(9) Principle Spillway (Elev.)	98.7
(10) Emergency Spillway (Elev.)	N/A
(11) Existing Sediment Capacity (To Cleanout)	978 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Would discharge to 005. Elevations Relative to Dam Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

03-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 005 LOCATION: Sowbelly Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Dry
(5) Existing Storage Capacity	18,560 cu.ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	93.1
(8) Sediment Cleanout Level (Elev.)	93.8
(9) Principle Spillway (Elev.)	99.1
(10) Emergency Spillway (Elev.)	99.1
(11) Existing Sediment Capacity (To Cleanout)	552 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Dam Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 007 LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	Minor sloughage on inside of berm near spillway.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	43,091 cu.ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	90.3
(8) Sediment Cleanout Level (Elev.)	92.5
(9) Principle Spillway (Elev.)	99.0
(10) Emergency Spillway (Elev.)	100.0
(11) Existing Sediment Capacity (To Cleanout)	8785 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Spillway Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(Signature)

08-23-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 008 LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised/Vegetated.
(2) Structural Weakness/Erosion	Minor at Culvert Inlet.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	40,037 cu.ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	92.1
(8) Sediment Cleanout Level (Elev.)	92.8
(9) Principle Spillway (Elev.)	99.0
(10) Emergency Spillway (Elev.)	100.1
(11) Existing Sediment Capacity (To Cleanout)	2800 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Spillway Elevation of 100.10.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-23-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 009 (Upper) LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	4247 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	99.5
(8) Sediment Cleanout Level (Elev.)	102.0
(9) Principle Spillway (Elev.)	103.2
(10) Emergency Spillway (Elev.)	103.2
(11) Existing Sediment Capacity (To Cleanout)	2735 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Lower Dam Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-23-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 009 (Lower) LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	Upper X-Bar Down. 4 X-Bars In. Minor sloughage on corners.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	27,297 cu.ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	87.3
(8) Sediment Cleanout Level (Elev.)	87.7
(9) Principle Spillway (Elev.)	93.0
(10) Emergency Spillway (Elev.)	99.0
(11) Existing Sediment Capacity (To Cleanout)	857 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Lower Dam Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-23-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4848
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 010 LOCATION: Castle Gate No. 1 Mine

IMPOUNDMENTS

(1) Stability	Slopes Stable/Mostly Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Dry
(5) Existing Storage Capacity	9632 cu. ft. (Note: 1992 report should have been 9920 cu. ft.)
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	92.2
(8) Sediment Cleanout Level (Elev.)	94.1
(9) Principle Spillway (Elev.)	100.0
(10) Emergency Spillway (Elev.)	100.0
(11) Existing Sediment Capacity (To Cleanout)	1173 cu. ft.

GENERAL

(12) Comments/Recommendations	No inflow. Open Channel Spillway. Elevations Relative to Open Spillway Elevation of 100.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

07-25-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 011 LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	Moderate on SW Inlet. Moderate on NW Inlet.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	3"
(5) Existing Storage Capacity	44,262 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	81.8
(8) Sediment Cleanout Level (Elev.)	83.0
(9) Principle Spillway (Elev.)	97.0
(10) Emergency Spillway (Elev.)	98.0
(11) Existing Sediment Capacity (To Cleanout)	1228 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Dam Elevation of 100.00. Recommend Grouting Inlets.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 012A

LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	Hole in Bank Under Road - Appears to be an Old Structure for Storage.
(3) Potential Safety Hazards	Hole in Bank Could Cause Piping. No deterioration is evident since 1992 inspection.
(4) Depth of Impounded Water	Damp
(5) Existing Storage Capacity	54,203 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	90.9
(8) Sediment Cleanout Level (Elev.)	92.5
(9) Principle Spillway (Elev.)	97.3
(10) Emergency Spillway (Elev.)	98.3
(11) Existing Sediment Capacity (To Cleanout)	1243 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Dam Elevation of 100.00. Recommend Repairing Hole.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 012B

LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	44,640 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	86.0
(8) Sediment Cleanout Level (Elev.)	85.6
(9) Principle Spillway (Elev.)	91.0
(10) Emergency Spillway (Elev.)	91.0
(11) Existing Sediment Capacity (To Cleanout)	0 cu. ft. (Clean Pond)

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Dam Elevation for 12A of 100.00. Pond needs to be cleaned.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Refuse Pond 013 LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable/Mostly Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	8.87 acre feet.
(6) Monitoring Procedures	Weekly Inspection per M.S.H.A. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	6233.4
(8) Sediment Cleanout Level (Elev.)	6245.5
(9) Principle Spillway (Elev.)	6255.0
(10) Emergency Spillway (Elev.)	6255.0
(11) Existing Sediment Capacity (To Cleanout)	3.30 acre feet.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. M.S.H.A. Pond ID-1211-UT-09-00-165-02. Resurveyed

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 014 LOCATION: Crandall Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	3.20'
(5) Existing Storage Capacity	40,674 cu. ft. Note: Pumping allowed for more accurate survey resulting in larger volume.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	87.8
(8) Sediment Cleanout Level (Elev.)	90.8
(9) Principle Spillway (Elev.)	95.3
(10) Emergency Spillway (Elev.)	97.0
(11) Existing Sediment Capacity (To Cleanout)	17,608 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Dual Culvert Spillways. Elevations Relative to Dam Elevation of 100.00. Pond pumped out.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

07-25-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 015 LOCATION: Grandall Canyon

IMPOUNDMENTS

(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Dry
(5) Existing Storage Capacity	43,721 cu. ft.
(6) Monitoring Procedures	Quarterly Inspection. U.P.D.E.S.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	89.5
(8) Sediment Cleanout Level (Elev.)	94.0
(9) Principle Spillway (Elev.)	98.2
(10) Emergency Spillway (Elev.)	99.6
(11) Existing Sediment Capacity (To Cleanout)	17,230 cu. ft.

GENERAL

(12) Comments/Recommendations	No Discharge. Open Channel Spillway. Elevations Relative to Dam Elevation of 101.00.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

07-25-93
(Date)

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No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Wash Plant Feed Pond

LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable. Rubber Lined Pond.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry.
(5) Existing Storage Capacity	3.62 acre feet.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	N/A
(8) Sediment Cleanout Level (Elev.)	N/A
(9) Principle Spillway (Elev.)	N/A
(10) Emergency Spillway (Elev.)	N/A
(11) Existing Sediment Capacity (To Cleanout)	N/A

GENERAL

(12) Comments/Recommendations	No Discharge. Inactive Impoundment.

STATEMENT

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Dan W. Guy
(Signature)

08-24-93
(Date)

REGISTERED PROFESSIONAL ENGINEER
No 4548
DAN W. GUY
STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Thickener Pond LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable/Mostly Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry.
(5) Existing Storage Capacity	10.33 acre feet.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	N/A
(8) Sediment Cleanout Level (Elev.)	N/A
(9) Principle Spillway (Elev.)	N/A
(10) Emergency Spillway (Elev.)	N/A
(11) Existing Sediment Capacity (To Cleanout)	N/A

GENERAL

(12) Comments/Recommendations	No Discharge. Inactive Impoundment.

STATEMENT

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Dan W. Guy
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08-24-93
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STATE OF UTAH

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Treatment Plant Pond

LOCATION: Castle Gate

IMPOUNDMENTS

(1) Stability	Slopes Stable/Incised.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry
(5) Existing Storage Capacity	2.35 acre feet.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	N/A
(8) Sediment Cleanout Level (Elev.)	N/A
(9) Principle Spillway (Elev.)	N/A
(10) Emergency Spillway (Elev.)	N/A
(11) Existing Sediment Capacity (To Cleanout)	N/A

GENERAL

(12) Comments/Recommendations	No Discharge. Inactive Impoundment.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(Signature)

08-24-93
(Date)

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